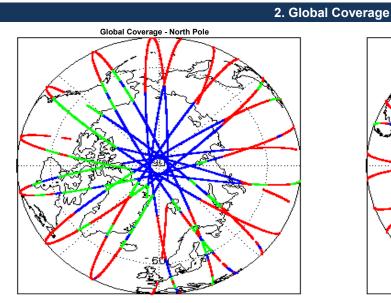


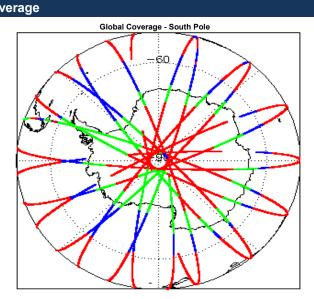
IDEAS+ Daily Report for OFFLINE data:

29/07/2018

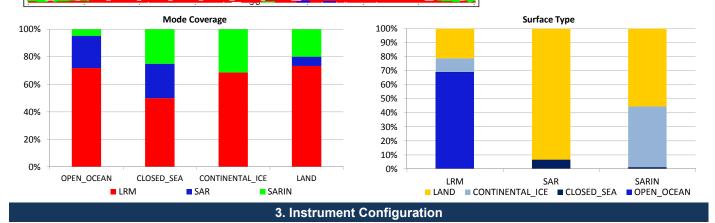
		1. Overview	
Report Production Date:	29-Aug-2018	Check	Status
Report Production Date.	29-Aug-2018	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Flocessol Used.	Cryosat ice Frocessor	Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data Useu.	LIB and L2 OFFLINE Data	Product Header Analysis	Nominal
		Star Tracker Usage Check	Nominal
		L1B Calibration Usage Check	Nominal
		L1B & L2 Auxiliary Data File Usage Check	Nominal
		L1B & L2 Auxiliary Correction Error Check	Nominal
		L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5

Mission / Instrument News		
28-Jul-2018	None	
29-Jul-2018	L0 data missing on 29-Jul-2018 due to an unplanned ground segment anomaly: SARIn 05:13:07 - 07:32:57; SAR & SARIN 11:37:24 - 13:16:20.	
30-Jul-2018	Nothing planned	





Mode Coverage (%)				
	LRM	17.8		
	SAR	10.5		
	SARIn	0.0		



The SIRAL instrument configuration for the day of acquisition is provided below.

4. Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL)

Number of products with errors:

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing

Number of products with errors:

4.4 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing

0

Number of products with errors:

4.5 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
Number of products with errors:
0

4.6 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

4.7 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 1B products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Block Degraded Flag: This flag is currently set for a number of individual records generally at the start or end of products (all modes), but this is to be expected.

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration. Number of products with errors: 4

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20180729T032554_20180729T033216_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20180729T044117_20180729T044813_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20180729T062155_20180729T062948_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20180729T064653_20180729T065130_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL). Number of products with errors: 0

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

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SARIN X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIN products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Product
CS_OFFL_SIR_LRM_220180729T000754_20180729T004316_C001
CS_OFFL_SIR_LRM_220180729T005144_20180729T005540_C001
CS_OFFL_SIR_LRM_220180729T010028_20180729T013409_C001
CS_OFFL_SIR_LRM_220180729T014624_20180729T020102_C001
CS_OFFL_SIR_LRM_220180729T020543_20180729T020705_C001
CS_OFFL_SIR_LRM_220180729T020708_20180729T021402_C001
CS_OFFL_SIR_LRM_220180729T024101_20180729T025403_C001
CS_OFFL_SIR_LRM_220180729T025617_20180729T031300_C001
CS_OFFL_SIR_LRM_220180729T033537_20180729T034603_C001
CS_OFFL_SIR_LRM_220180729T034742_20180729T040136_C001
CS_OFFL_SIR_LRM_220180729T042609_20180729T043009_C001
CS_OFFL_SIR_LRM_220180729T043650_20180729T043954_C001
CS_OFFL_SIR_LRM_220180729T044117_20180729T044813_C001
CS_OFFL_SIR_LRM_220180729T052004_20180729T054016_C001
CS_OFFL_SIR_LRM_220180729T055608_20180729T062151_C001
CS_OFFL_SIR_LRM_220180729T064426_20180729T064530_C001
CS_OFFL_SIR_LRM_220180729T065541_20180729T071936_C001
CS_OFFL_SIR_LRM_220180729T072812_20180729T073137_C001
CS_OFFL_SIR_LRM_220180729T073523_20180729T074607_C001
CS_OFFL_SIR_LRM_220180729T075144_20180729T080725_C001
CS_OFFL_SIR_LRM_220180729T082312_20180729T082820_C001
CS_OFFL_SIR_LRM_220180729T083040_20180729T085214_C001
CS_OFFL_SIR_LRM_2_20180729T085428_20180729T085909_C001
CS_OFFL_SIR_LRM_2_20180729T090239_20180729T091045_C001
CS_OFFL_SIR_LRM_220180729T091538_20180729T094802_C001
CS_OFFL_SIR_LRM_220180729T100052_20180729T100219_C001
CS_0FFL_SIR_LRM_220180729T102245_20180729T103053_C001
CS_OFFL_SIR_LRM_220180729T105432_20180729T111544_C001
CS_OFFL_SIR_LRM_220180729T110502_20180729T111544_C001
CS_OFFL_SIR_LRM_220180729T111829_20180729T113010_C001
CS_OFFL_SIR_LRM_220180729T113917_20180729T114402_C001
CS_OFFL_SIR_LRM_220180729T115129_20180729T115622_C001
CS_OFFL_SIR_LRM_220180729T115909_20180729T120435_C001
CS_OFFL_SIR_LRM_220180729T120622_20180729T121645_C001
CS_OFFL_SIR_LRM_220180729T123351_20180729T131008_C001
CS_OFFL_SIR_LRM_220180729T132245_20180729T132936_C001
CS_OFFL_SIR_LRM_220180729T132950_20180729T135408_C001
CS_OFFL_SIR_LRM_220180729T141306_20180729T142906_C001
CS_OFFL_SIR_LRM_220180729T142912_20180729T144120_C001
CS_OFFL_SIR_LRM_220180729T150257_20180729T151842_C001
CS_OFFL_SIR_LRM_220180729T152735_20180729T153545_C001
CS_OFFL_SIR_LRM_220180729T154224_20180729T154455_C001
CS_OFFL_SIR_LRM_220180729T155236_20180729T160630_C001
CS_OFFL_SIR_LRM_220180729T160810_20180729T161241_C001

	Test Failed	Des
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	(Retracker 3), Backscatter Error (Retracker 2)	for R
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	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	Ther for R
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	Height Error (Retracker 2), Backscatter	Ther
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	Error (Retracker 2) Height Error (Retracker 2), Height Error	reco
	(Retracker 3), Backscatter Error (Retracker 2)	Ther for R
	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	Ther for R
	Height Error (Retracker 2), Backscatter Error (Retracker 2)	Ther reco
	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	Ther for R
	(Retracker 2) Height Error (Retracker 2), Backscatter	Ther
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	Error (Retracker 2) Height Error (Retracker 2), Height Error	reco
	(Retracker 3), Backscatter Error (Retracker 2)	Ther for R
	Height Error (Retracker 2), Backscatter Error (Retracker 2)	Ther reco
	Height Error (Retracker 2), Backscatter Error (Retracker 2)	Ther reco
	Height Error (Retracker 2), Backscatter Error (Retracker 2)	Ther reco
	Surface Model Unavailable	No E
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	(Retracker 3), Backscatter Error (Retracker 2)	for R
	Height Error (Retracker 2), Backscatter Error (Retracker 2)	Ther reco
	Surface Model Unavailable	No E
	Height Error (Retracker 2), Backscatter Error (Retracker 2)	Ther reco
	Height Error (Retracker 2), Backscatter Error (Retracker 2)	Ther reco
	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	Ther
	(Retracker 2) Height Error (Retracker 2), Backscatter	for R Ther
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	Error (Retracker 2)	reco
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	Height Error (Retracker 2), Backscatter Error (Retracker 2)	Ther reco
	Height Error (Retracker 2), Backscatter Error (Retracker 2)	Ther reco
	Height Error (Retracker 2), Backscatter	Ther
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	(Retracker 3), Backscatter Error (Retracker 2)	Ther for R
	Height Error (Retracker 2), Backscatter Error (Retracker 2)	Ther reco
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	(Retracker 3), Backscatter Error (Retracker 2)	Ther for R
1		

Description
There is a height and backscatter error for Retracker 2 and a height error or Retracker 3 for one or more records
to DEM or Slope Model was used for the location of one or more records
There is a height and backscatter error for Retracker 2 and a height error or Retracker 3 for one or more records
There is a height and backscatter error for Retracker 2 for one or more ecords
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There is a height and backscatter error for Retracker 2 and a height error or Retracker 3 for one or more records
There is a height and backscatter error for Retracker 2 and a height error or Retracker 3 for one or more records
There is a height and backscatter error for Retracker 2 for one or more ecords
There is a height and backscatter error for Retracker 2 and a height error or Retracker 3 for one or more records
There is a height and backscatter error for Retracker 2 for one or more ecords
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There is a height and backscatter error for Retracker 2 and a height error or Retracker 3 for one or more records
There is a height and backscatter error for Retracker 2 for one or more ecords
There is a height and backscatter error for Retracker 2 for one or more ecords
There is a height and backscatter error for Retracker 2 for one or more ecords
No DEM or Slope Model was used for the location of one or more records
There is a height and backscatter error for Retracker 2 for one or more ecords
There is a height and backscatter error for Retracker 2 for one or more ecords
There is a height and backscatter error for Retracker 2 for one or more ecords
There is a height and backscatter error for Retracker 2 and a height error or Retracker 3 for one or more records
There is a height and backscatter error for Retracker 2 for one or more ecords
No DEM or Slope Model was used for the location of one or more records
There is a height and backscatter error for Retracker 2 for one or more ecords
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There is a height and backscatter error for Retracker 2 and a height error or Retracker 3 for one or more records
There is a height and backscatter error for Retracker 2 for one or more ecords
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No DEM or Slope Model was used for the location of one or more records
There is a height and backscatter error for Retracker 2 and a height error or Retracker 3 for one or more records
There is a height and backscatter error for Retracker 2 for one or more
ecords

There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records

CS_OFFL_SIR_LRM_2__20180729T165331_20180729T171631_C001 CS OFFL SIR LRM 2 20180729T172007 20180729T172900 C001 CS OFFL SIR LRM 2 20180729T173211 20180729T175459 C001 CS OFFL SIR LRM 2 20180729T183001 20180729T185548 C001 CS_OFFL_SIR_LRM_2__20180729T191139_20180729T193501_C001 CS OFFL SIR LRM 2 20180729T193815 20180729T194848 C002 CS OFFL SIR LRM 2 20180729T200355 20180729T201837 C001 CS_OFFL_SIR_LRM_2__20180729T205017_20180729T211524_C001 CS_OFFL_SIR_LRM_2_20180729T212633_20180729T212759_C001 CS_OFFL_SIR_LRM_2__20180729T214002_20180729T221328_C001 CS_OFFL_SIR_LRM_2__20180729T223709_20180729T224424_C001 CS OFFL SIR LRM 2 20180729T230312 20180729T230720 C001 CS OFFL SIR LRM 2 20180729T231634 20180729T232846 C001 CS OFFL SIR LRM 2 20180729T233132 20180729T235242 C001 CS OFFL SIR SIN 2 20180729T004515 20180729T004709 C001 CS_OFFL_SIR_SIN_2__20180729T005541_20180729T005649_C001 CS_OFFL_SIR_SIN_2__20180729T013424_20180729T013525_C001 CS OFFL SIR SIN 2 20180729T013810 20180729T013918 C001 CS_OFFL_SIR_SIN_2__20180729T022328_20180729T022506_C001 CS OFFL SIR SIN 2 20180729T023242 20180729T023436 C001 CS_OFFL_SIR_SIN_2__20180729T031616_20180729T031832_C001 CS_OFFL_SIR_SIN_2__20180729T040244_20180729T040432_C001 CS OFFL SIR SIN 2 20180729T040954 20180729T040959 C001 CS_OFFL_SIR_SIN_2__20180729T041115_20180729T041807_C001 CS_OFFL_SIR_SIN_2__20180729T082004_20180729T082035_C001 CS_OFFL_SIR_SIN_2__20180729T090115_20180729T090239_C001 CS_OFFL_SIR_SIN_2__20180729T091045_20180729T091156_C001 CS_OFFL_SIR_SIN_2__20180729T104050_20180729T104215_C001 CS OFFL SIR SIN 2 20180729T104732 20180729T105038 C001 CS_OFFL_SIR_SIN_2__20180729T140110_20180729T140344_C001 CS OFFL SIR SIN 2 20180729T140539 20180729T140802 C001 CS OFFL SIR SIN 2 20180729T141030 20180729T141204 C001 CS OFFL SIR SIN 2 20180729T145617 20180729T145736 C001 CS OFFL SIR SIN 2 20180729T150135 20180729T150257 C001 CS_OFFL_SIR_SIN_2__20180729T153616_20180729T154224_C001 CS_OFFL_SIR_SIN_2__20180729T154455_20180729T154520_C001 CS OFFL SIR SIN 2 20180729T154946 20180729T155125 C001 CS OFFL SIR SIN 2 20180729T163057 20180729T163136 C001 CS_OFFL_SIR_SIN_2__20180729T163550_20180729T163759_C001 CS OFFL SIR SIN 2 20180729T171832_20180729T172006_C001 CS_OFFL_SIR_SIN_2_20180729T172900_20180729T173101_C001 CS_OFFL_SIR_SIN_2__20180729T181549_20180729T181948_C001 CS OFFL SIR SIN 2 20180729T185808 20180729T185936 C001 CS_OFFL_SIR_SIN_2__20180729T190116_20180729T190223_C001 CS OFFL SIR SIN 2 20180729T190649 20180729T190917 C001 CS OFFL SIR SIN 2 20180729T203746 20180729T204137 C001 CS OFFL SIR SIN 2 20180729T204727 20180729T204852 C001 CS_OFFL_SIR_SIN_2__20180729T212810_20180729T212907_C001 CS_OFFL_SIR_SIN_2__20180729T221730_20180729T222043_C001 CS_OFFL_SIR_SIN_2__20180729T222558_20180729T222710_C001 CS OFFL SIR SIN 2 20180729T235453 20180729T235915 C001

Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2). Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) (Retracker 3), Backscatter Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailab SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error

records

There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more ecords There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more

6. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	139	139	139	0	0
SIR_LRM_2	138	138	138	0	0
SIR_LRMI2_	138	138	138	0	0
SIR_SAR_1B	94	94	94	0	0
SIR_SAR_2	94	94	94	0	0
SIR_SARI2_	94	94	94	0	0
SIR_SIN_1B	82	82	82	0	0
SIR_SIN_2	82	82	82	0	0
SIR_SINI2	82	82	82	0	0
SIR_GDR_2	14	14	14	0	0
CC Errors	C errors:	0			
CC Warnings					

Number of QCC reports with warnings

6.2 Missing QCC Reports

Number of products with missing QCC reports: 161

0