



Analysis from 24-OCT-2010 00:00:00 to 24-OCT-2010 23:59:59. Page generated on 27-OCT-2010 13:24:39.
View log file: ASAR_Daily_Report_20101027_1324.log. For any anomalies please contact emma.griffiths@vega.co.uk, kajal.haria@vega.co.uk.

This report is automatically generated every day, every 2 hours. No comments are provided on the results.

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1 - DATA SUMMARY

1.1 - Summary tables

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| WVS | | | | GM1 | | | | APM | | | | IMM | | | | WSM | | | | MS | | | |
|--------|------|-----|---|--------|------|-----|---|--------|------|-----|---|--------|------|-----|---|--------|------|-----|---|--------|------|-----|---------|
| Center | Beam | Pol | # | Center | Beam | Pol | # | Center | Beam | Pol | # | Center | Beam | Pol | # | Center | Beam | Pol | # | Center | Time | Pol | Modules |

1.2 - Lists of products used

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2 - AUXILIARY FILES ANALYSIS

2.1 - IECF operational ADFs list

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| ADFs disseminated for ASAR |
|---|
| ASA_CON_AXVIEC20100608_125449_20100317_120410_20101231_000000 |
| ASA_INS_AXVIEC20101018_101437_20101022_000000_20101231_235959 |
| ASA_XCH_AXVIEC20091217_113006_20020301_000000_20101231_000000 |
| ASA_XCA_AXVIEC20100608_123419_20100317_120410_20110101_000000 |

2.2 - Products with wrong ADFs

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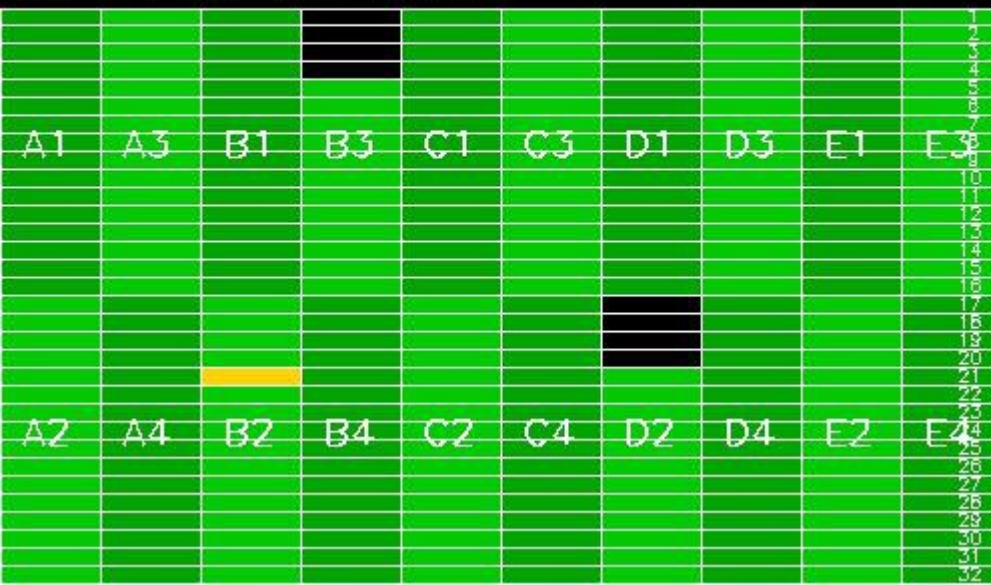
| Product | ASA_CON | ASA_INS | ASA_XCH | ASA_XCA |
|---------|---------|---------|---------|---------|
| WVS | 0 | 0 | 0 | 0 |

[TXT] [XLS] Check_ADFs_WVS

3 - MODULE STEPPING PRODUCTS ANALYSIS

| SECOND FIXED REFERENCE | PREVIOUS PRODUCT REFERENCE |
|-----------------------------------|---|
| Pre-launch reference (2001-02-09) | Previous product in the same polarisation |
| | |

Reference: 2001-02-09 14:08:23 V RxGain
 Test : 2010-10-20 17:01:37 V



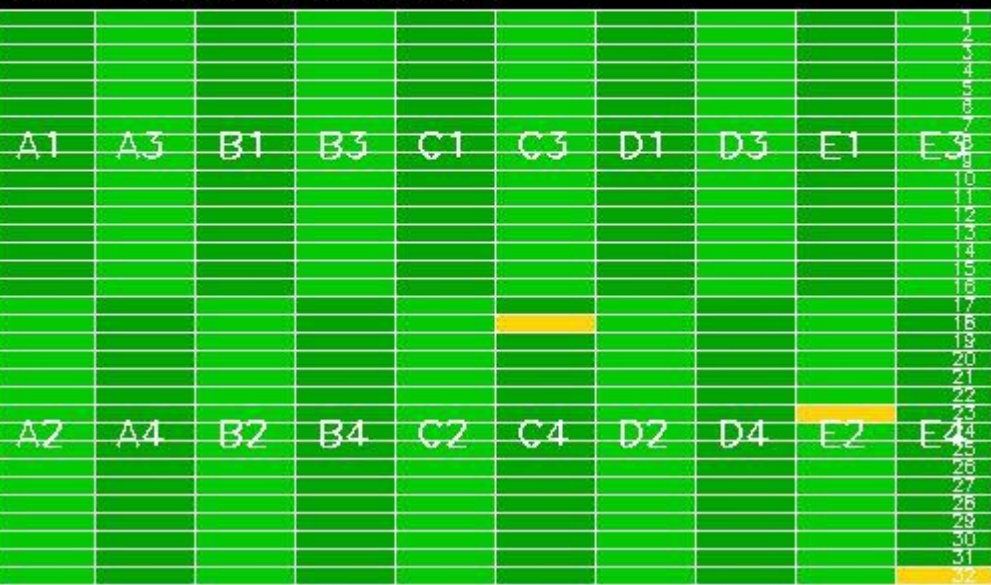
Reference: 2010-10-18 18:04:51 V RxGain
 Test : 2010-10-20 17:01:37 V

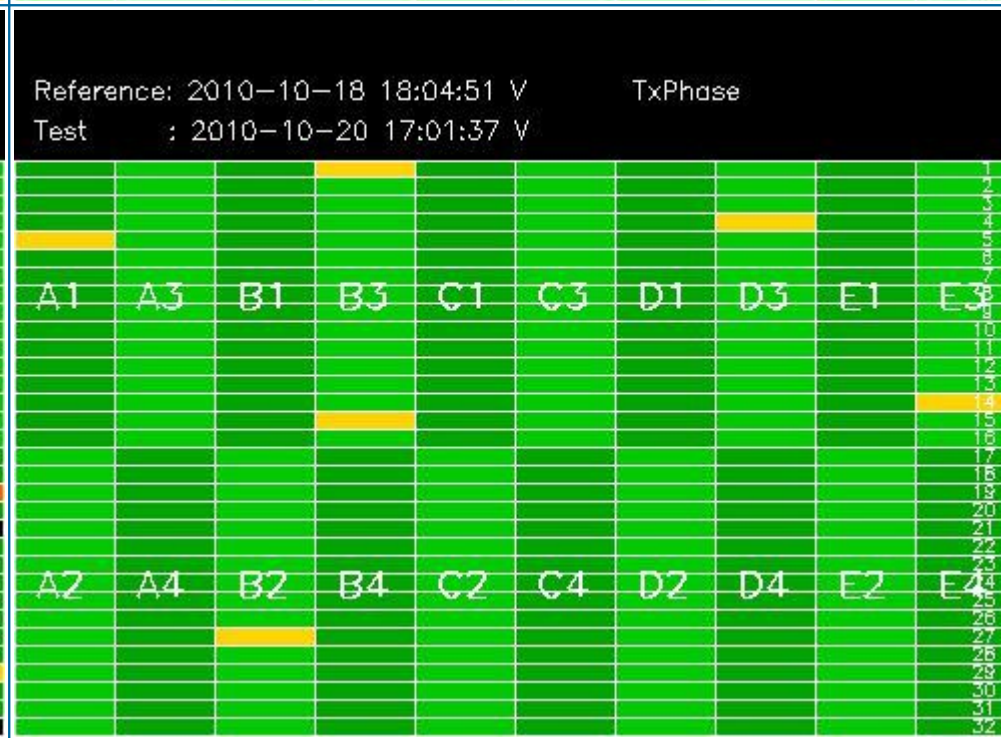
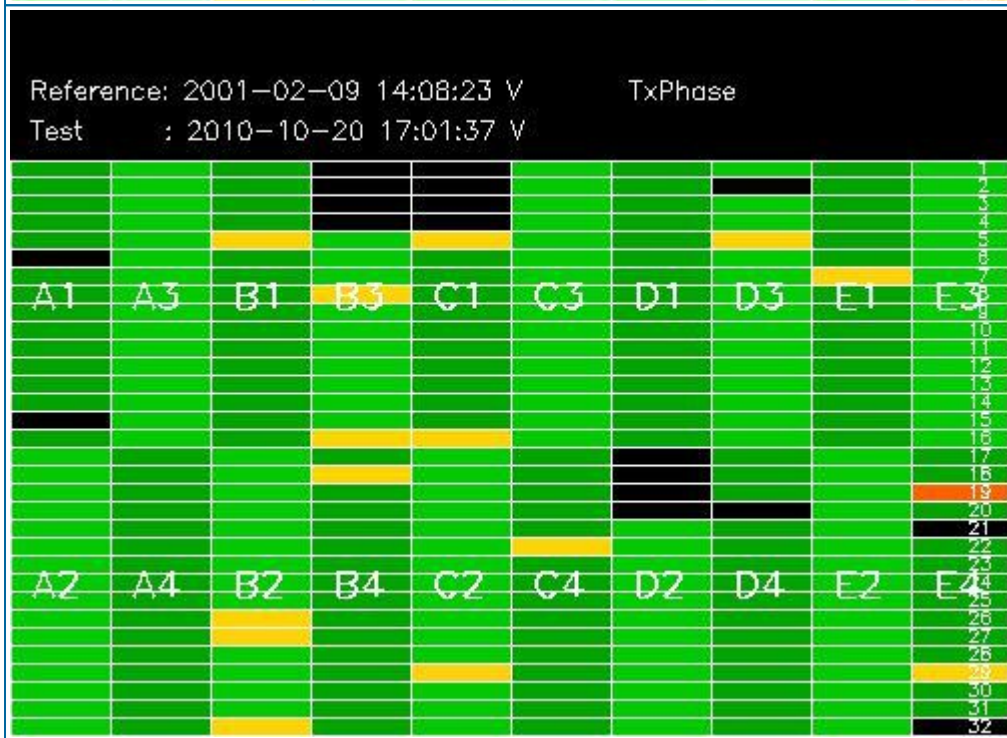
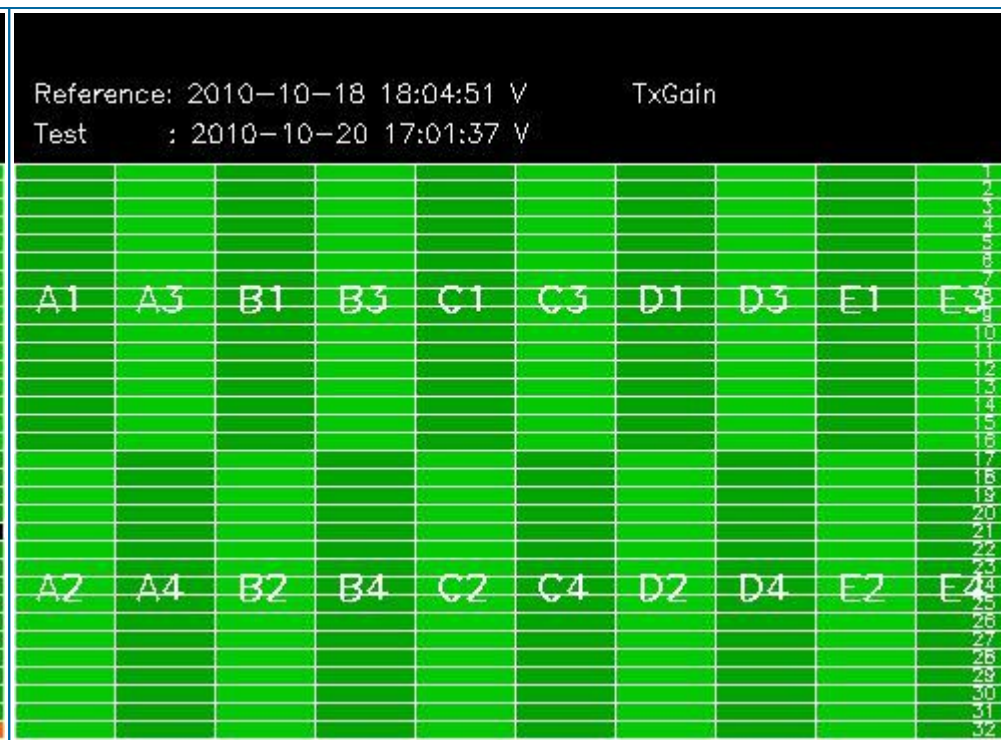
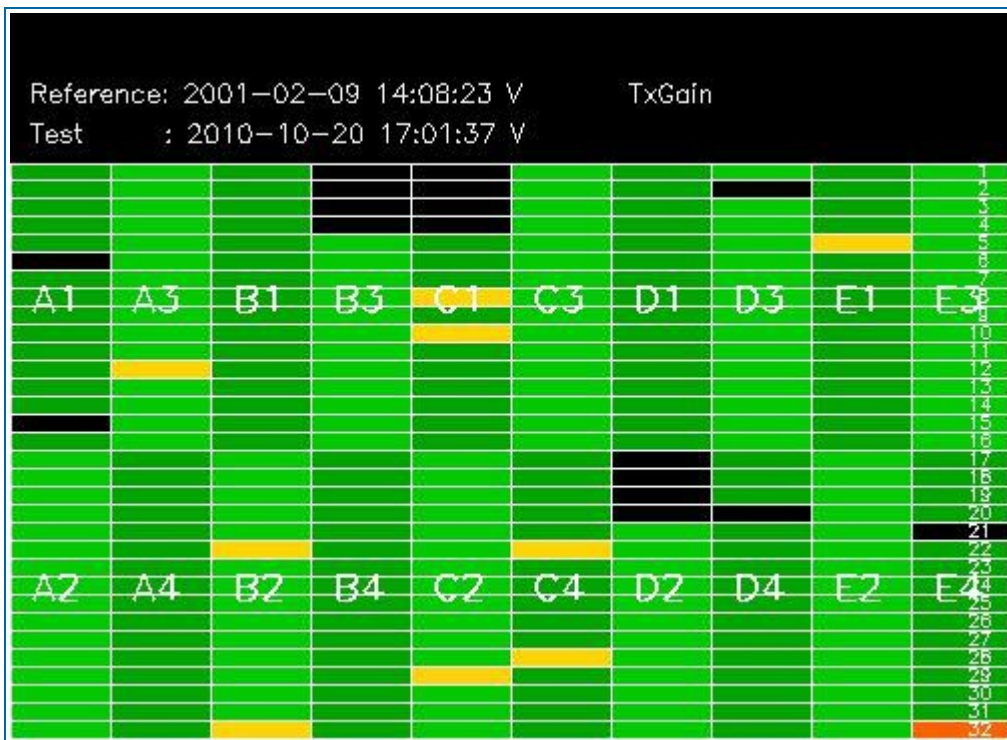


Reference: 2001-02-09 14:08:23 V RxPhase
 Test : 2010-10-20 17:01:37 V



Reference: 2010-10-18 18:04:51 V RxPhase
 Test : 2010-10-20 17:01:37 V



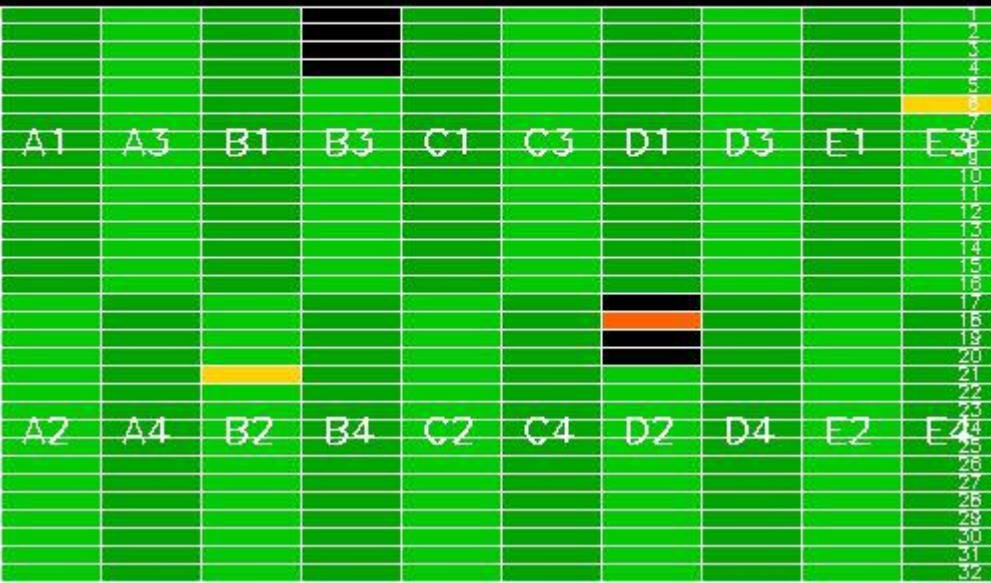


3.2 - H/H polarisation

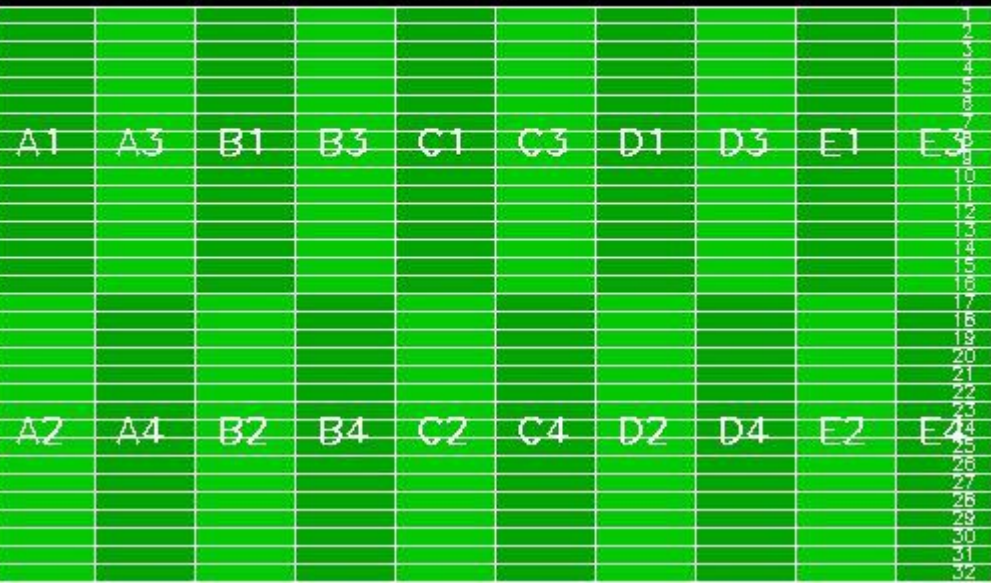
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| SECOND FIXED REFERENCE | PREVIOUS PRODUCT REFERENCE |
|-----------------------------------|---|
| Pre-launch reference (2001-02-09) | Previous product in the same polarisation |
| | |

Reference: 2001-02-09 13:50:42 H RxGain
 Test : 2010-10-21 06:26:24 H



Reference: 2010-10-19 17:33:14 H RxGain
 Test : 2010-10-21 06:26:24 H

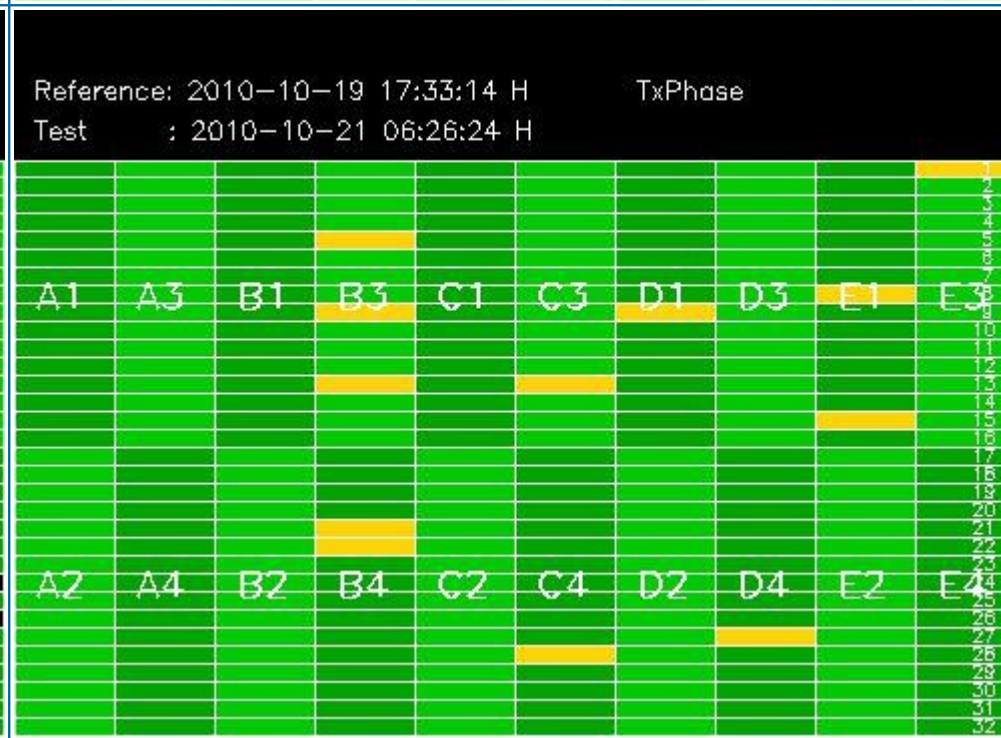
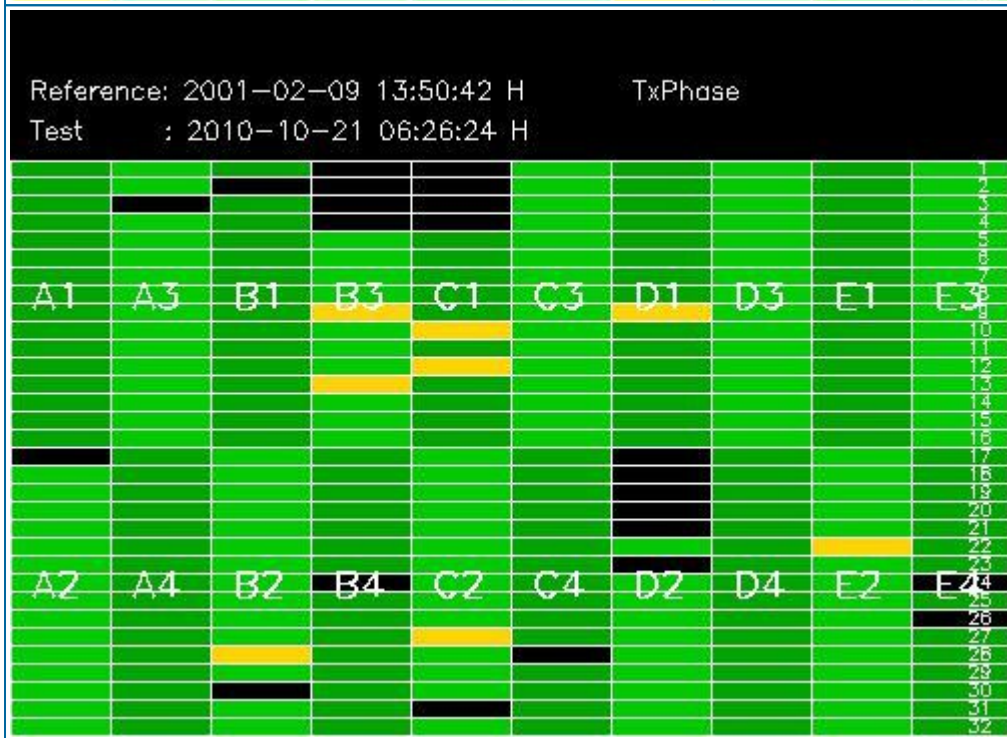
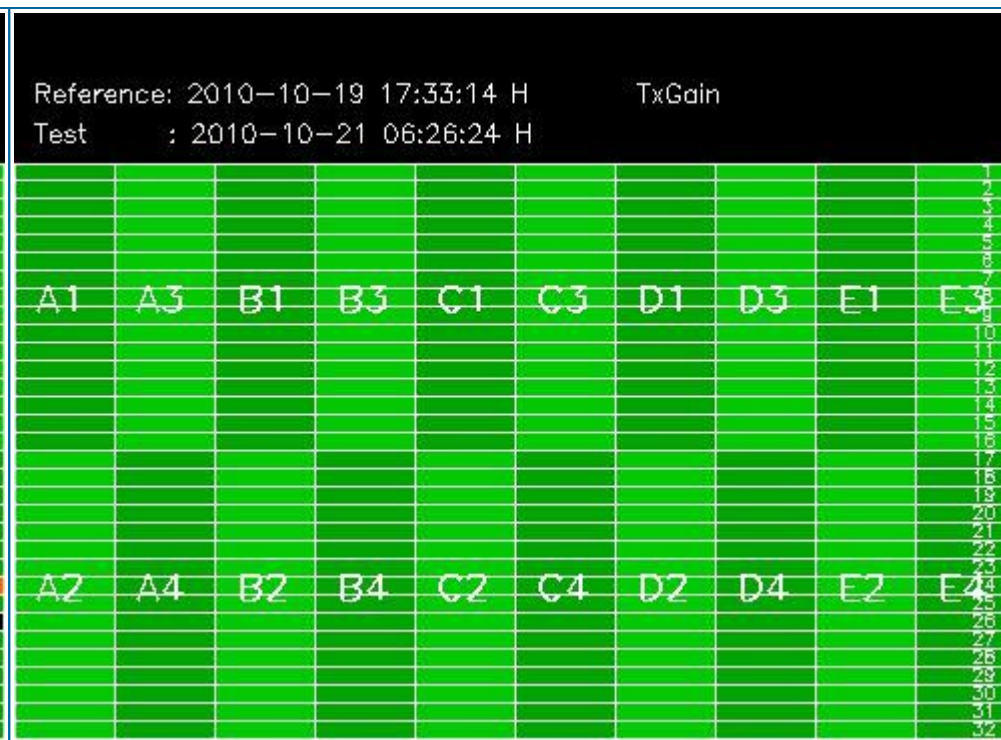
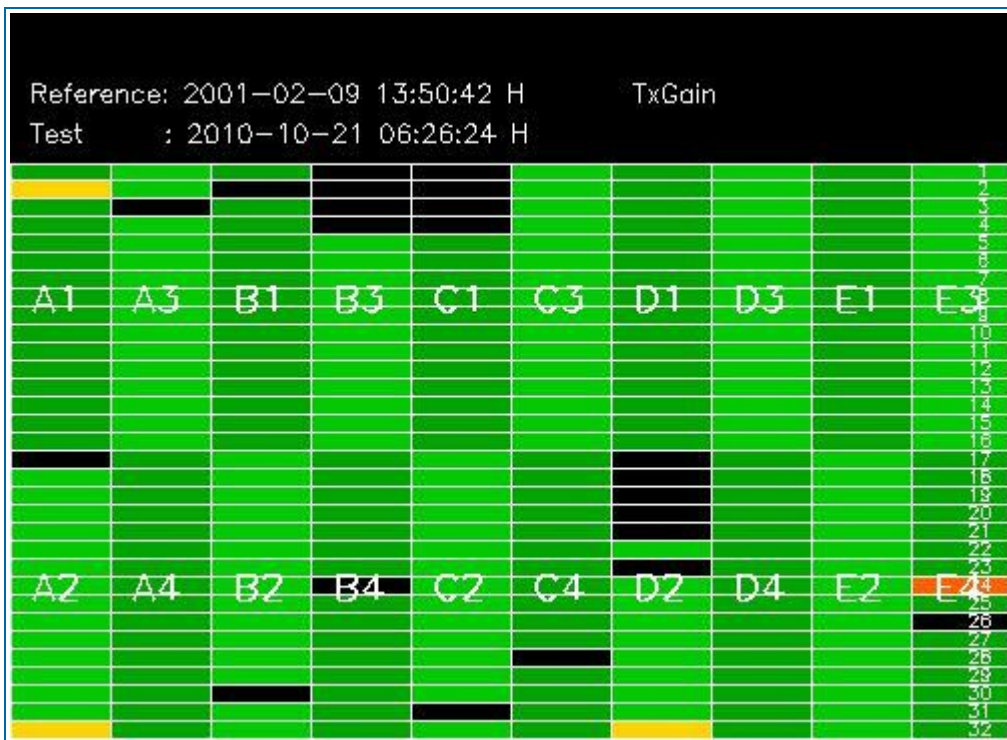


Reference: 2001-02-09 13:50:42 H RxPhase
 Test : 2010-10-21 06:26:24 H



Reference: 2010-10-19 17:33:14 H RxPhase
 Test : 2010-10-21 06:26:24 H





4 - CALIBRATION PULSES ANALYSIS

4.1 - Analysis for WVS IS2 V/V

4.1.1 - Temporal Evolution Analysis for WVS IS2 V/V

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Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32]



Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32]



4.1.2 - All Rows Analysis for WVS IS2 V/V

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4.2 - Analysis for GM1 SS3 H/H

4.2.1 - Temporal Evolution Analysis for GM1 SS3 H/H

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| | |
|---|---|
| Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32] | Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32] |
|---|---|

4.2.2 - All Rows Analysis for GM1 SS3 H/H

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5 - DOPPLER ANALYSIS

5.1 - Analysis for WVS IS2 V/V

5.1.1 - Doppler MAP Analysis for WVS IS2 V/V

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5.1.2 - Doppler ANX Analysis for WVS IS2 V/V

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5.2 - Analysis for GM1 SS1 H/H

5.2.1 - Doppler MAP Analysis for GM1 SS1 H/H

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5.2.2 - Doppler ANX Analysis for GM1 SS1 H/H

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5.3 - Doppler JUMPS Analysis for WSM

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6 - CHIRP ANALYSIS

6.1 - Analysis for WSM SS1 H/H

6.1.1 - ScaleFactor

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6.2 - Analysis for WSM SS1 V/V

6.2.1 - ScaleFactor

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7 - RAW DATA ANALYSIS

7.1 - Analysis for WVS

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| Channel | Statistics | DSS-B |
|---------|------------|-------|
| MEAN I | mean | |
| | stdev | |
| MEAN Q | mean | |
| | stdev | |
| Channel | Statistics | DSS-B |
| STDEV I | mean | |
| | stdev | |
| STDEV Q | mean | |
| | stdev | |

7.2 - Analysis for IMM

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| Channel | Statistics | DSS-B |
|---------|------------|-------|
| MEAN I | mean | |
| | stdev | |
| MEAN Q | mean | |
| | stdev | |
| Channel | Statistics | DSS-B |
| STDEV I | mean | |
| | stdev | |
| STDEV Q | mean | |
| | stdev | |

8 - TELEMETRY ANALYSIS

8.1 - Number of Missing lines

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8.2 - Number of Gaps

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ASAR Daily Report V1.00

Document Reference: OSME-DPQC-SEDA-RP-06-0348/0349

Contract Reference: ESA/Esrin 19049/05/I-OL

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ASAR DAILY REPORT for 101024
#####

MODE: DAILY
ANALYSIS: ALL
DATE: 2010-10-24

Analysis will be performed from 2010-10-24 00:00:00 to 2010-10-24 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_101024/

DATA SUMMARY

Summary will be performed from 2010-10-24 00:00:00 to 2010-10-24 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_101024/DATA_SUMMARY

Creating directory ./RESULTS/DAILY/_101024/DATA_SUMMARY...
Writing file ./RESULTS/DAILY/_101024/DATA_SUMMARY/Data_summary.html...

Getting WVS products list from 2010-10-24 00:00:00 to 2010-10-24 23:59:59...
Writing file ./RESULTS/DAILY/_101024/DATA_SUMMARY/List_WVS_products_used.xls...
Writing file ./RESULTS/DAILY/_101024/DATA_SUMMARY/List_WVS_products_used.txt...

Getting GM1 products list from 2010-10-24 00:00:00 to 2010-10-24 23:59:59...
Writing file ./RESULTS/DAILY/_101024/DATA_SUMMARY/List_GM1_products_used.xls...
Writing file ./RESULTS/DAILY/_101024/DATA_SUMMARY/List_GM1_products_used.txt...

Getting APM products list from 2010-10-24 00:00:00 to 2010-10-24 23:59:59...
Writing file ./RESULTS/DAILY/_101024/DATA_SUMMARY/List_APM_products_used.xls...
Writing file ./RESULTS/DAILY/_101024/DATA_SUMMARY/List_APM_products_used.txt...

Getting IMM products list from 2010-10-24 00:00:00 to 2010-10-24 23:59:59...
Writing file ./RESULTS/DAILY/_101024/DATA_SUMMARY/List_IMM_products_used.xls...
Writing file ./RESULTS/DAILY/_101024/DATA_SUMMARY/List_IMM_products_used.txt...

Getting WSM products list from 2010-10-24 00:00:00 to 2010-10-24 23:59:59...
Writing file ./RESULTS/DAILY/_101024/DATA_SUMMARY/List_WSM_products_used.xls...
Writing file ./RESULTS/DAILY/_101024/DATA_SUMMARY/List_WSM_products_used.txt...

Getting MS products list from 2010-10-24 00:00:00 to 2010-10-24 23:59:59...
Writing file ./RESULTS/DAILY/_101024/DATA_SUMMARY/List_MS_products_used.xls...
Writing file ./RESULTS/DAILY/_101024/DATA_SUMMARY/List_MS_products_used.txt...

DATA SUMMARY completed
#####

AUXILIARY FILES ANALYSIS

Analysis will be performed from 2010-10-24 00:00:00 to 2010-10-24 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_101024/AUXILIARY

Creating directory ./RESULTS/DAILY/_101024/AUXILIARY...

Looking for the IECF operational ADFs list...



ADF filter 20101024*current_3_IECF_ADFs.txt
 Found list 20101024_030003_current_3_IECF_ADFs.txt...
 Extracting ADFs...

ASA_CON_AXVIEC20100608_125449_20100317_120410_20101231_000000
 ASA_INS_AXVIEC20101018_101437_20101022_000000_20101231_235959
 ASA_XCH_AXVIEC20091217_113006_20020301_000000_20101231_000000
 ASA_XCA_AXVIEC20100608_123419_20100317_120410_20110101_000000

Writing file ./RESULTS/DAILY/_101024/AUXILIARY/ASAR_ADFs_IECF_List3.html...
 Writing file ./RESULTS/DAILY/_101024/AUXILIARY/Auxiliary_files_summary.html...

 Analysing WVS products...

Writing file ./RESULTS/DAILY/_101024/AUXILIARY/Check_ADFs_WVS.xls...
 Writing file ./RESULTS/DAILY/_101024/AUXILIARY/Check_ADFs_WVS.txt...

ASA_WVS_1PNPDK20101024_102854_000030003095_00382_45224_4602.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK

 Analysing GM1 products...

No GM1 products available for the selected period...

 Analysing APM products...

No APM products available for the selected period...

 Analysing IMM products...

No IMM products available for the selected period...

 Analysing WSM products...

No WSM products available for the selected period...

AUXILIARY FILES ANALYSIS completed
 #####

MODULE STEPPING ANALYSIS
 #####

Analysis will be performed from 2010-10-24 00:00:00 to 2010-10-24 23:59:59
 Results will be exported to the directory: ./RESULTS/DAILY/_101024/MODULE_STEPPING

Creating directory ./RESULTS/DAILY/_101024/MODULE_STEPPING...
 Creating directory ./RESULTS/DAILY/_101024/MODULE_STEPPING/FIRST_REFERENCE...
 Creating directory ./RESULTS/DAILY/_101024/MODULE_STEPPING/SECOND_REFERENCE...
 Creating directory ./RESULTS/DAILY/_101024/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE...
 Deleting old files...

 Creating images comparing with second reference...

Exporting results to the directory ../../RESULTS/DAILY/_101024/MODULE_STEPPING/SECOND_REFERENCE...

Polarization: H
Reference product: ASA_MS__0PNPDK20010209_135042_00000009A024_00180_11700_0052.N1
Test product: ASA_MS__0PNPDK20101021_062624_000000162094_00034_45178_0231.N1
H
H
../../RESULTS/DAILY/_101024/MODULE_STEPPING/SECOND_REFERENCE/TGH_20101021_062624-20010209_135042.png
../../RESULTS/DAILY/_101024/MODULE_STEPPING/SECOND_REFERENCE/TPH_20101021_062624-20010209_135042.png
../../RESULTS/DAILY/_101024/MODULE_STEPPING/SECOND_REFERENCE/RGH_20101021_062624-20010209_135042.png
../../RESULTS/DAILY/_101024/MODULE_STEPPING/SECOND_REFERENCE/RPH_20101021_062624-20010209_135042.png

Polarization: V
Reference product: ASA_MS__0PNPDK20010209_140823_00000009A024_00180_11700_0054.N1
Test product: ASA_MS__0PNPDK20101020_170137_000000162094_00026_45170_0230.N1
V
V
../../RESULTS/DAILY/_101024/MODULE_STEPPING/SECOND_REFERENCE/TGV_20101020_170137-20010209_140823.png
../../RESULTS/DAILY/_101024/MODULE_STEPPING/SECOND_REFERENCE/TPV_20101020_170137-20010209_140823.png
../../RESULTS/DAILY/_101024/MODULE_STEPPING/SECOND_REFERENCE/RGV_20101020_170137-20010209_140823.png
../../RESULTS/DAILY/_101024/MODULE_STEPPING/SECOND_REFERENCE/RPV_20101020_170137-20010209_140823.png

Creating images comparing with previous product reference...

Exporting results to the directory ../../RESULTS/DAILY/_101024/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE...

Polarization: H
Reference product: ASA_MS__0PNPDK20101019_173314_000000162094_00012_45156_0229.N1
Test product: ASA_MS__0PNPDK20101021_062624_000000162094_00034_45178_0231.N1
H
H
../../RESULTS/DAILY/_101024/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/TGH_20101021_062624-20101019_173314.png
../../RESULTS/DAILY/_101024/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/TPH_20101021_062624-20101019_173314.png
../../RESULTS/DAILY/_101024/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/RGH_20101021_062624-20101019_173314.png
../../RESULTS/DAILY/_101024/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/RPH_20101021_062624-20101019_173314.png

Polarization: V
Reference product: ASA_MS__0PNPDK20101018_180451_000000162093_00499_45142_0228.N1
Test product: ASA_MS__0PNPDK20101020_170137_000000162094_00026_45170_0230.N1
V
V
../../RESULTS/DAILY/_101024/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/TGV_20101020_170137-20101018_180451.png
../../RESULTS/DAILY/_101024/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/TPV_20101020_170137-20101018_180451.png
../../RESULTS/DAILY/_101024/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/RGV_20101020_170137-20101018_180451.png
../../RESULTS/DAILY/_101024/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/RPV_20101020_170137-20101018_180451.png

MODULE_STEPPING ANALYSIS completed
#####

CALIBRATION PULSES ANALYSIS

Creating directory ./RESULTS/DAILY/_101024/CALIBRATION_PULSES...

ALL ROWS Analysis will be performed from 2010-10-24 00:00:00 to 2010-10-24 23:59:59

Analysing products WVS IS2 V/V
*** No Data ***
Analysing products GM1 SS3 H/H
*** No Data ***



 TEMPORAL EVOLUTION Analysis will be performed from 2010-10-24 00:00:00 to 2010-10-24 23:59:59

Analysing products WVS IS2 V/V
 Getting calibration pulses data for WVS IS2 V/V from 2010-10-24 00:00:00 to 2010-10-24 23:59:59. Rows: 1/5/9/13/17/21/25/29
 Writing file ./RESULTS/DAILY/_101024/CALIBRATION_PULSES/Calibration_pulses_data_WVS_IS2_VV_2010-10-24_1.dat...
 No data to be processed for WVS IS2 V/V...

Getting calibration pulses data for WVS IS2 V/V from 2010-10-24 00:00:00 to 2010-10-24 23:59:59. Rows: 2/6/10/14/18/22/26/30
 Writing file ./RESULTS/DAILY/_101024/CALIBRATION_PULSES/Calibration_pulses_data_WVS_IS2_VV_2010-10-24_2.dat...
 No data to be processed for WVS IS2 V/V...

Getting calibration pulses data for WVS IS2 V/V from 2010-10-24 00:00:00 to 2010-10-24 23:59:59. Rows: 3/7/11/15/19/23/27/31
 Writing file ./RESULTS/DAILY/_101024/CALIBRATION_PULSES/Calibration_pulses_data_WVS_IS2_VV_2010-10-24_3.dat...
 No data to be processed for WVS IS2 V/V...

Getting calibration pulses data for WVS IS2 V/V from 2010-10-24 00:00:00 to 2010-10-24 23:59:59. Rows: 4/8/12/16/20/24/28/32
 Writing file ./RESULTS/DAILY/_101024/CALIBRATION_PULSES/Calibration_pulses_data_WVS_IS2_VV_2010-10-24_4.dat...
 No data to be processed for WVS IS2 V/V...

Analysing products GM1 SS3 H/H
 Getting calibration pulses data for GM1 SS3 H/H from 2010-10-24 00:00:00 to 2010-10-24 23:59:59. Rows: 1/5/9/13/17/21/25/29
 Writing file ./RESULTS/DAILY/_101024/CALIBRATION_PULSES/Calibration_pulses_data_GM1_SS3_HH_2010-10-24_1.dat...
 No data to be processed for GM1 SS3 H/H...

Getting calibration pulses data for GM1 SS3 H/H from 2010-10-24 00:00:00 to 2010-10-24 23:59:59. Rows: 2/6/10/14/18/22/26/30
 Writing file ./RESULTS/DAILY/_101024/CALIBRATION_PULSES/Calibration_pulses_data_GM1_SS3_HH_2010-10-24_2.dat...
 No data to be processed for GM1 SS3 H/H...

Getting calibration pulses data for GM1 SS3 H/H from 2010-10-24 00:00:00 to 2010-10-24 23:59:59. Rows: 3/7/11/15/19/23/27/31
 Writing file ./RESULTS/DAILY/_101024/CALIBRATION_PULSES/Calibration_pulses_data_GM1_SS3_HH_2010-10-24_3.dat...
 No data to be processed for GM1 SS3 H/H...

Getting calibration pulses data for GM1 SS3 H/H from 2010-10-24 00:00:00 to 2010-10-24 23:59:59. Rows: 4/8/12/16/20/24/28/32
 Writing file ./RESULTS/DAILY/_101024/CALIBRATION_PULSES/Calibration_pulses_data_GM1_SS3_HH_2010-10-24_4.dat...
 No data to be processed for GM1 SS3 H/H...

CALIBRATION PULSES ANALYSIS completed
 #####

DOPPLER ANALYSIS
 #####
 Creating directory ./RESULTS/DAILY/_101024/DOPPLER...

 DOPPLER ANX Analysis will be performed from 2010-10-24 00:00:00 to 2010-10-24 23:59:59

Analysing products WVS IS2 V/V
 Getting doppler data for WVS IS2 V/V from 2010-10-24 00:00:00 to 2010-10-24 23:59:59...
 Writing file ./RESULTS/DAILY/_101024/DOPPLER/Doppler_data_WVS_IS2_VV_2010-10-24.dat...
 No data to be processed for WVS IS2 V/V...

Analysing products GM1 SS1 H/H
 Getting doppler data for GM1 SS1 H/H from 2010-10-24 00:00:00 to 2010-10-24 23:59:59...
 Writing file ./RESULTS/DAILY/_101024/DOPPLER/Doppler_data_GM1_SS1_HH_2010-10-24.dat...
 No data to be processed for GM1 SS1 H/H...

DOPPLER JUMPS Analysis will be performed on WSM products from 2010-10-24 00:00:00 to 2010-10-24 23:59:59

Analysing by default products WSM
Getting doppler jumps data for WSM from 2010-10-24 00:00:00 to 2010-10-24 23:59:59...
Writing file ./RESULTS/DAILY/_101024/DOPPLER/Doppler_Jumps_data_WSM_2010-10-24.dat...
No data to be processed for WSM...

DOPPLER MAP Analysis will be performed from 2010-10-24 00:00:00 to 2010-10-24 23:59:59

Analysing products WVS IS2 V/V
*** Insufficient Data to Plot ***
*** Insufficient Data to Plot ***

Analysing products GM1 SS1 H/H
*** Insufficient Data to Plot ***
*** Insufficient Data to Plot ***

DOPPLER ANALYSIS completed
#####

CHIRP ANALYSIS

Creating directory ./RESULTS/DAILY/_101024/CHIRP...

CHIRP Analysis will be performed from 2010-10-24 00:00:00 to 2010-10-24 23:59:59

Analysing products WSM SS1 H/H

Getting ScaleFactor data for WSM SS1 H/H from 2010-10-24 00:00:00 to 2010-10-24 23:59:59...
Writing file ./RESULTS/DAILY/_101024/CHIRP/ScaleFactor_data_WSM_SS1_HH_2010-10-24.dat...
ScaleFactor: no data to be processed for WSM SS1 H/H...

Analysing products WSM SS1 V/V

Getting ScaleFactor data for WSM SS1 V/V from 2010-10-24 00:00:00 to 2010-10-24 23:59:59...
Writing file ./RESULTS/DAILY/_101024/CHIRP/ScaleFactor_data_WSM_SS1_VV_2010-10-24.dat...
ScaleFactor: no data to be processed for WSM SS1 V/V...

CHIRP ANALYSIS completed
#####

RAW DATA ANALYSIS

Analysis will be performed from 2010-10-24 00:00:00 to 2010-10-24 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_101024/RAW_DATA

Creating directory ./RESULTS/DAILY/_101024/RAW_DATA...

```
*****
Getting raw data for WVS from 2010-10-24 00:00:00 to 2010-10-24 23:59:59...
Writing file ./RESULTS/DAILY/_101024/RAW_DATA/Raw_data_WVS_2010-10-24.dat...
No data to be processed for WVS...
```

```
*****
Getting raw data for IMM from 2010-10-24 00:00:00 to 2010-10-24 23:59:59...
Writing file ./RESULTS/DAILY/_101024/RAW_DATA/Raw_data_IMM_2010-10-24.dat...
No data to be processed for IMM...
```

```
RAW DATA ANALYSIS completed
#####
```

```
TELEMETRY ANALYSIS
#####
Analysis will be performed from 2010-10-24 00:00:00 to 2010-10-24 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_101024/TELEMETRY
```

```
Creating directory ./RESULTS/DAILY/_101024/TELEMETRY...
```

```
Looking for gaps and missing lines in WVS products...
*****
No products from PDE...
No products from PDK...
```

```
Looking for gaps and missing lines in GM1 products...
*****
No products from PDE...
No products from PDK...
```

```
Looking for gaps and missing lines in APM products...
*****
No products from PDE...
No products from PDK...
```

```
Looking for gaps and missing lines in IMM products...
*****
No products from PDE...
No products from PDK...
```

```
Looking for gaps and missing lines in WSM products...
*****
No products from PDE...
No products from PDK...
```

```
No data found...
*****
```

```
TELEMETRY ANALYSIS completed
#####
```

```
HTML REPORT generation
#####
```

```
Building file ./RESULTS/DAILY/_101024/asarReport.html...
Building DATA SUMMARY section...
Building AUXILIARY FILES ANALYSIS section...
Building MODULE STEPPING ANALYSIS section...
Building CALIBRATION PULSES ANALYSIS section...
```

Building DOPPLER ANALYSIS section...
Building CHIRP ANALYSIS section...
Building RAW DATA ANALYSIS section...
Building TELEMETRY ANALYSIS section...

HTML REPORT generation completed

#####



Differences with IECF operational ADFs list. If a wrong ADF is used, the filename is reported.

| Product | ASA_CON | ASA_INS | ASA_XCH | ASA_XCA |
|--|---------|---------|---------|---------|
| ASA_WVS_1PNPDK20101024_102854_000030003095_00382_45224_4602.N1 | OK | OK | OK | OK |

