	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
		Issue <b>01</b>	Revision <b>02</b>
		Date: December 20, 2019	



# RSS4VC Test Report

ROC-TST-VAL-PLN-00111-LES

**Iss.01, Rev.02**

Prepared by	Date	Signature
X.Bonnin and ROC Team		
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CLASSIFICATION

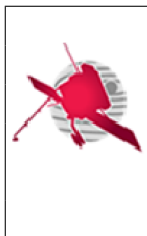
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# RSS4VC Test Report

Ref: **ROC-TST-VAL-PLN-00111-LES**

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**01**

Revision  
**02**

Date: December 20, 2019

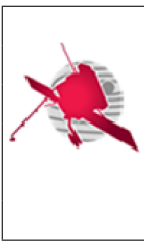
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## Change Record

Issue	Rev.	Date	Authors	Modifications
1	0	04/11/2019	X.Bonnin and ROC Team	first issue
1	1	06/12/2019	X.Bonnin	Update with delta RSS4VC test results
1	2	20/12/2019	X.Bonnin	Update conclusions section   move automated test results in appendix

## Acronym List

Acronym	Definition
BIAS	Bias unit
CDF	Common Data Format
CNES	Centre National d'Etudes Spatiales
EDDS	EGOS Data Dissemination System
GFTS	Generic File Transfer System
LESIA	Laboratoire d'Etudes Spatiales et d'Instrumentation en Astrophysique
LFR	Low Frequency Receiver
MOC	Mission Operation Centre
MUSIC	Monitoring and control USer InterfaCe
RGTS	ROC Ground Test SGSE
RIVP	RCS Interface Validation Pipeline
ROC	RPW Operations Centre
RODP	RPW Operation and Data Pipeline
RPW	Radio and Plasma Waves instrument
RSS	ROC Software System
RSS4VC	ROC Software System release 4 Validation Campaign
SGSE	Software Ground Support Equipment
SOC	Science Operation Centre
TDS	Time Domain Sampler



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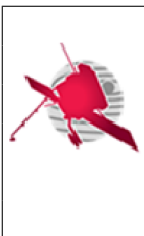
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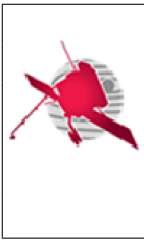
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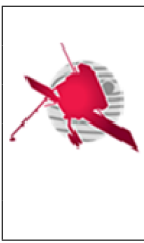
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# 1 General

## 1.1 Scope of the document

This document is the test report of the ROC Software System release 4 Validation Campaign (RSS4VC). It contains the results of tests, which were executed during the validation campaign.

The RSS4VC test plan is described in [RD1].


## 1.2 Applicable Documents

Tab. 1.1: Applicable documents

Mark	Reference/Iss/Rev	Title of the document	Authors	Date
AD1	ROC-GEN-SYS-PLN-00040-LES/2/2	ROC Verification and Validation Plan (RVVP)	Sonny Lion, Xavier Bonnin	20/12/2019
AD2	ROC-GEN-OTH-NTT-00036-LES/1/0	ROC Project Glossary of terms	Xavier Bonnin	13/09/2017

## 1.3 Reference Documents

This document is based on the documents listed in the following table:

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Tab. 1.2: Reference documents

Mark	Reference/Iss/Rev	Title of the document	Authors	Date
RD1	ROC-TST-VAL-PLN-00108-LES/1/1	RSS4VC Test Plan	Sonny LION, Xavier BON-NIN	20/12/2019
RD2	RSS4VC_Products	RSS4VC Products	ROC team	20/12/2019
RD3	ROC-GEN-QAP-NTT-00112-LES/1/0	ROC Software Source Code Analysis	Stephane PA-PAIS	03/10/2019

## 1.4 About this document


### 1.4.1 Access policy

The present document is accessible without any restriction.

**Any modification of this document must be approved by the RPW Ground Segment Project Manager before publication.**

### 1.4.2 Terminology

All terms used in this document, and which are not listed in the table below must follow the definition in [AD2].

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## 2 Test configuration

### 2.1 Requirements and Documents

The RSS4VC requirements and documents can be found in [RD1].

The code source analysis performed prior to the RSS4VC is presented in [RD3].

### 2.2 Input Data

The RSS4VC input data are listed in the test cards (see list of files in the Testcards folder of [RD2]).

### 2.3 Execution Pre- and Post-Conditions


The RSS4VC pre/post conditions are listed in the test cards (see list of files in the Testcards folder of [RD2]).

### 2.4 Entry and Exit Criteria

The RSS4VC entry and exit criteria are listed in the test cards (see list of files in the Testcards folder of [RD2]).

### 2.5 Hardware / Environment

The RSS4VC hardware / environment are presented in [RD1].

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## 2.6 Software or Sub-Systems used

The RSS4VC tests were executed for the following software:

- RODP V0.3.0
- RGTS V3.4.3
- RIVP V0.1.3
- MUSIC (FIGARO, FAUST) V0.2.0
- BICA V0.2.0
- LFR\_CALBUT V0.7.0
- SCMCAL V0.9.0
- TDS\_CALBA V0.8.5
- THR\_CALBAR V1.2.2

## 2.7 Personnel

The personnel involved in the validation tests is presented in [RD1].

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## 3 Overview of Tests Results

### 3.1 Test results overall report

The RSS4VC tests were performed at LESIA (Meudon, France) between the 23th and 25th of October 2019. Delta RSS4VC tests were run between the 4th of November and 6th of December, in order to run missing test cases or re-run failed test cases.

The ROC capabilities were partially tested during the campaign, especially:

- RPW data retrieval and distribution test cases were not run ;
- RPW data production test cases were passed with limitations (missing L1/L2 CDF production, L1/L2 CDF partially compliant) ;
- No test case was run related to the data visualization and monitoring ;


As indicated in the RSS4VC Test Plan, no full end-to-end test has been performed.

### 3.2 Summary table

Table below gives the overall status of test case runs during the whole RSS4VC. From the left to the right, the columns give respectively:

- The test case ID (as defined in the RVVP) ;
- The status of the test at the end of the RSS4VC ;
- The importance of the test case w.r.t. the requirements which are validated ;
- The reference to the associated issue on the ROC Gitlab server ;


Details of the test case results are given in the section 4.

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Tab. 3.1: RSS4VC test result overview

Test case ID	Status	Importance	Reference
ROC-DATA_ARCH-010-LESIA-01	No run (test not defined)	High	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/44">https://gitlab.obspm.fr/ROC/Validation/issues/44</a>
ROC-DATA_DIST-010-PRE_DATA-01	Not run (test not defined)	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/45">https://gitlab.obspm.fr/ROC/Validation/issues/45</a>
ROC-DATA_DIST-015-PRE_DATA-01	Not run (test not defined)	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/46">https://gitlab.obspm.fr/ROC/Validation/issues/46</a>
ROC-DATA_DIST-020-ANC-01	Not run	High	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/47">https://gitlab.obspm.fr/ROC/Validation/issues/47</a>
ROC-DATA_PROD-010-LZ-01	Passed	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/48">https://gitlab.obspm.fr/ROC/Validation/issues/48</a>
ROC-DATA_PROD-020-L0-01	Passed	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/49">https://gitlab.obspm.fr/ROC/Validation/issues/49</a>
ROC-DATA_PROD-030-L1-01	Passed with limitations	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/27">https://gitlab.obspm.fr/ROC/Validation/issues/27</a>
ROC-DATA_PROD-040-L2-01	Passed with limitations	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/32">https://gitlab.obspm.fr/ROC/Validation/issues/32</a>
ROC-DATA_PROD-041-L2-01	Partially passed with limitations	High	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/21">https://gitlab.obspm.fr/ROC/Validation/issues/21</a>
ROC-DATA_PROD-042-L2-01	Partially passed with limitations	High	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/20">https://gitlab.obspm.fr/ROC/Validation/issues/20</a>
ROC-DATA_PROD-043-L2-01	Partially passed with limitations	High	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/18">https://gitlab.obspm.fr/ROC/Validation/issues/18</a>
ROC-DATA_PROD-044-L2-01	Partially passed with limitations	High	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/19">https://gitlab.obspm.fr/ROC/Validation/issues/19</a>
ROC-DATA_PROD-060-HK-01	Passed with limitations	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/28">https://gitlab.obspm.fr/ROC/Validation/issues/28</a>
ROC-DATA_PROD-065-REPORT-01	Not run	High	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/50">https://gitlab.obspm.fr/ROC/Validation/issues/50</a>
ROC-DATA_PROD-090-REPROC-01	Not run	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/51">https://gitlab.obspm.fr/ROC/Validation/issues/51</a>
ROC-DATA_PROD-100-OBT.UTC-01	Not run	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/52">https://gitlab.obspm.fr/ROC/Validation/issues/52</a>
ROC-DATA_VISU-010-VISU-01	Not run	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/53">https://gitlab.obspm.fr/ROC/Validation/issues/53</a>
ROC-GRD_SUP-010-DATA_VISU-01	Passed	Medium	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/54">https://gitlab.obspm.fr/ROC/Validation/issues/54</a>
ROC-GRD_SUP-020-DATA_DIST-01	Passed	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/55">https://gitlab.obspm.fr/ROC/Validation/issues/55</a>
ROC-GRD_SUP-030-RPW_ANOMALY-01	Partially passed with limitations	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/56">https://gitlab.obspm.fr/ROC/Validation/issues/56</a>

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Test case ID	Status	Importance	Reference
ROC-ROC_MONIT-010-RSS-01	Not run	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/57">https://gitlab.obspm.fr/ROC/Validation/issues/57</a>
ROC-RPW_COM-040-RESOU-01	Not run	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/58">https://gitlab.obspm.fr/ROC/Validation/issues/58</a>
ROC-RPW_COM-110-SEQ_TEST-01	Passed with limitations	High	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/17">https://gitlab.obspm.fr/ROC/Validation/issues/17</a>
ROC-RPW-COM-120-SEQ_SOUR-01	Not run	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/59">https://gitlab.obspm.fr/ROC/Validation/issues/59</a>
ROC-RPW_MONIT-010-RPW_DATA-01	Not run	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/60">https://gitlab.obspm.fr/ROC/Validation/issues/60</a>
ROC-RPW_MONIT-020-TM_S1-01	Not run	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/61">https://gitlab.obspm.fr/ROC/Validation/issues/61</a>
ROC-RPW_MONIT-030-ISM-01	Not run	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/62">https://gitlab.obspm.fr/ROC/Validation/issues/62</a>
ROC-RPW_MONIT-040-SW_PATCH-01	Partially implemented and tested	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/29">https://gitlab.obspm.fr/ROC/Validation/issues/29</a>



## 4 Tests case detailed results

This section presents the results by test case, as reported in the RSS4VC test cards. The RSS4VC test card files are available in [RD2].

### 4.1 ROC-DATA\_ARCH-010-LESIA

**Requirements:** REQ-ROC-CIRD-0170

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of storing RPW-related data at LESIA during the Solar Orbiter mission

**Test Case Scenario:** Verify that the RPW-related operation and data products long-term storage capability is up-and-running at LESIA

**testers name:** X.Bonnin

**test date:** YYYY/MM/DD


**test case status:** Not executed

**test readiness status:** Partially ready

**comments:**

Tab. 4.1: ROC-DATA\_ARCH-010-LESIA Known limitations

#	Known limitations
1	Operational long-term data volume to store RPW products is planned to be only deployed during the commissioning phase.
2	Use stand-alone script dispatcher.py
3	Not all RPW data products are ready to be generated (see limitations in associated test cases below)
4	

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Tab. 4.2: ROC-DATA\_ARCH-010-LESIA Prerequisites

#	Prerequisites
1	Test instance of the RPW long-term data volume at LESIA is up-and-running
2	ROC-DATA_DIST-010-PRE_DATA tests have been run successfully
3	Python program <a href="https://gitlab.obspm.fr/ROC/SupportTools/blob/master/DataProcessing/data_dispatcher/dispatcher.py">https://gitlab.obspm.fr/ROC/SupportTools/blob/master/DataProcessing/data_dispatcher/dispatcher.py</a> is ready to be run on roc-dev server.
4	

Tab. 4.3: ROC-DATA\_ARCH-010-LESIA Test Data

#	Test Data
1	Output products from ROC-DATA_DIST-010-PRE_DATA test case
2	
3	

**Test Scenario:** Verify that the RPW-related operation and data products long-term storage capability is up-and-running at LESIA

Tab. 4.4: ROC-DATA\_ARCH-010-LESIA Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Check that output products from ROC-DATA_DIST-010-PRE_DATA test case exist	REQ-ROC-SSS-0390	Output products from ROC-DATA_DIST-010-PRE_DATA are found in the expected folders		
2	Run the script 'dispatcher.py'				
3					

## 4.2 ROC-DATA\_DIST-010-PRE\_DATA

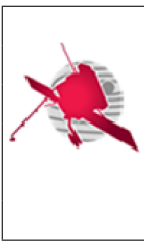
**Requirements:** REQ-ROC-CIRD-0150

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of distributing RPW preliminary data files from the private area of the ROC Web site (part 1)



# RSS4VC Test Report

Ref: **ROC-TST-VAL-PLN-00111-LES**

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**Test Case Scenario:** Verify that RPW preliminary data files generated by the RODP are well copied into the private area of the ROC Web site

**testers name:** X.Bonnin

**test date:** YYYY/MM/DD

**test case status:** Not executed

**test readiness status:** Partially ready

**comments:**

Tab. 4.5: ROC-DATA\_DIST-010-PRE\_DATA Known limitations

#	Known limitations
1	Only tested for set of RPW preliminary data files generated during RSS4VC
2	Use stand-alone script dispatcher.py


Tab. 4.6: ROC-DATA\_DIST-010-PRE\_DATA Prerequisites

#	Prerequisites
1	roc-dev server is up-and-running
2	ROC HTTPS server is up-and-running
3	Set of RPW 'test data' products available on the RODP pipeline output directory (test instance)
4	

Tab. 4.7: ROC-DATA\_DIST-010-PRE\_DATA Test Data

#	Test Data
1	Set of RPW test data preliminary data products generated from ROC-DATA_PROD-010-LZ, ROC-DATA_PROD-020-L0, ROC-DATA_PROD-020-L1, ROC-DATA_PROD-020-L2 and ROC-DATA_PROD-060-HK test cases
2	
3	

**Test Scenario:** Verify that RPW preliminary data files generated by the RODP are well copied into the private area of the ROC Web site

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Tab. 4.8: ROC-DATA\_DIST-010-PRE\_DATA Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Run script run_ROC-DATA_DIST-010-PRE_DATA-01_RSS4VC.sh from /opt/roc/validation/Validation/RSS4VC/Testcases/ROC-DATA_DIST-010-PRE_DATA-01 in roc-dev.obspm.fr server.	REQ-ROC-SSS-0400	Set of RPW 'test data' preliminary data products must be found in sub-folders of <a href="https://lesia.obspm.fr/roc/data/private/solo/rpw/data/">https://lesia.obspm.fr/roc/data/private/solo/rpw/data/</a>		
2	Open a Web browser from Internet (outside of the Obs. Paris Intranet) and check if data products are saved into <a href="https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/data/">https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/data/</a>	REQ-ROC-SSS-0700			
3					

## 4.3 ROC-DATA\_DIST-015-PRE\_DATA

**Requirements:** REQ-ROC-CIRD-0150

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of distributing RPW preliminary data files from the private area of the ROC Web site (part 2)

**Test Case Scenario:** Verify that RPW preliminary data files can be downloaded from the private area of the ROC Web site


**testers name:** X.Bonnin

**test date:** YYYY/MM/DD

**test case status:** Not executed

**test readiness status:** Partially ready

**comments:** See known\_limitations

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
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Tab. 4.9: ROC-DATA\_DIST-015-PRE\_DATA Known limitations

#	Known limitations
1	Only tested for set of RPW preliminary data files generated during RSS4VC
2	Use external script instead of RODP

Tab. 4.10: ROC-DATA\_DIST-015-PRE\_DATA Prerequisites

#	Prerequisites
1	ROC Web server up-and-running
2	Set of RPW test data products available on <a href="https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/data/">https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/data/</a>
3	Set of RPW test data products available on the local machine


Tab. 4.11: ROC-DATA\_DIST-015-PRE\_DATA Test Data

#	Test Data
1	ROC Web server up-and-running
2	Set of RPW test data products using in ROC-DATA_DIST-015-PRE_DATA test case
3	
4	

**Test Scenario:** Verify that RPW preliminary data files can be downloaded from the private area of the ROC Web site

Tab. 4.12: ROC-DATA\_DIST-015-PRE\_DATA Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Download RPW test data products from <a href="https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/data">https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/data</a>	REQ-ROC-SSS-0400	RPW test data products are well downloaded from <a href="https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/data">https://rpw.lesia.obspm.fr/roc/data/private/solo/rpw/data</a> (i.e., same downloaded and local data files)		
2	Compare with the set of RPW test data products available on the local machine	REQ-ROC-SSS-0700			
3					

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## 4.4 ROC-DATA\_DIST-020-ANC

**Requirements:** REQ-ROC-CIRD-0160

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of distributing RPW-related ancillary data files to RPW consortium

**Test Case Scenario:** Verify that RPW consortium can retrieve RPW-related ancillary data files

**testers name:** X.Bonnin

**test date:** YYYY/MM/DD

**test case status:** Not executed

**test readiness status:** Partially ready


**comments:** See known\_limitations

Tab. 4.13: ROC-DATA\_DIST-020-ANC Known limitations

#	Known limitations
1	Only tested with set of draft test ancillary data files provided by the SOC in <a href="https://issues.cosmos.esa.int/solarorbiterwiki/download/attachments/7274724/SOLAR-ORBITER_SPICE_kernel_dataset_v020_20170706_001.zip?version=1&amp;modificationDate=1499669027000&amp;api=v2">https://issues.cosmos.esa.int/solarorbiterwiki/download/attachments/7274724/SOLAR-ORBITER_SPICE_kernel_dataset_v020_20170706_001.zip?version=1&amp;modificationDate=1499669027000&amp;api=v2</a>
2	Use external script instead of RODP

Tab. 4.14: ROC-DATA\_DIST-020-ANC Prerequisites

#	Prerequisites
1	Set of SOC-provided ANC test data files available in the SOC-ROC GFTS local node folder (testing instance)
2	ROC Web server up-and-running
3	
4	

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
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Tab. 4.15: ROC-DATA\_DIST-020-ANC Test Data

#	Test Data
1	Set of SOC-provided ANC data files ( <a href="https://issues.cosmos.esa.int/solarorbiterwiki/download/attachments/7274724/SOLAR-ORBITER_SPICE_kernel_dataset_v020_20170706_001.zip?version=1&amp;modificationDate=1499669027000&amp;api=v2">https://issues.cosmos.esa.int/solarorbiterwiki/download/attachments/7274724/SOLAR-ORBITER_SPICE_kernel_dataset_v020_20170706_001.zip?version=1&amp;modificationDate=1499669027000&amp;api=v2</a> )
2	
3	

**Test Scenario:** Verify that RPW consortium can retrieve RPW-related ancillary data files

Tab. 4.16: ROC-DATA\_DIST-020-ANC Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Run the script TBD from TBD	REQ-ROC-SSS-0400	Set of SOC-provided ANC data files available in <a href="https://rpw.lesia.obspm.fr/roc/data/private/solo/esa/soc/spice/">https://rpw.lesia.obspm.fr/roc/data/private/solo/esa/soc/spice/</a>		
2	Open a Web browser from Internet (outside of the Obs. Paris Intranet) and check if SOC-provided ANC data files are saved inside <a href="https://rpw.lesia.obspm.fr/roc/data/private/solo/esa/soc/spice/">https://rpw.lesia.obspm.fr/roc/data/private/solo/esa/soc/spice/</a>				
3					

## 4.5 ROC-DATA\_PROD-010-LZ

**Requirements:** REQ-ROC-CIRD-0040

**Version:** 1


**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of producing RPW LZ data files

**Test Case Scenario:** Verify that the ROC pipeline has produced RPW LZ files

**testers name:** X.Bonnin

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
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**test date:** 2019/11/08

**test case status:** Passed

**test readiness status:** Ready

**comments:** None

Tab. 4.17: ROC-DATA\_PROD-010-LZ Known limitations

#	Known limitations
1	

Tab. 4.18: ROC-DATA\_PROD-010-LZ Prerequisites


#	Prerequisites
1	ROC Gitlab server up-and-running
2	RODP V0.3.0 source code available and tagged on <a href="https://gitlab.obspm.fr/ROC/Pipelines/RODP">https://gitlab.obspm.fr/ROC/Pipelines/RODP</a> Gitlab repository
3	roc2-dev.obspm.fr server up-and-running
4	Dedicated set of test data are available (see below)
5	

Tab. 4.19: ROC-DATA\_PROD-010-LZ Test Data

#	Test Data
1	Set of input inputs in <a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/dds_to_10/inputs/">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/dds_to_10/inputs/</a>
2	Set of expected outputs in <a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/dds_to_10/expected_outputs/">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/dds_to_10/expected_outputs/</a>
3	
4	

**Test Scenario:** Verify that the ROC pipeline has produced RPW LZ files



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Tab. 4.20: ROC-DATA\_PROD-010-LZ Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Run a 0.3.0 pipeline from <a href="https://gitlab.obspm.fr/ROC/Pipelines/RODP/pipelines">https://gitlab.obspm.fr/ROC/Pipelines/RODP/pipelines</a> , check pipeline run final status and read report.html from generate_report artifact.	REQ-ROC-SSS-0200	pipeline status must be 'passed'	As expected	Passed
2	Check test_dds_to_10[MIB-20190624] test status in report.html		test_dds_to_10[MIB-20190624] test status must be 'passed'	As expected	Passed
3	Check test_dds_to_10[PALISADE-4.3.3_MEB_PFM] test status in report.html		test_dds_to_10[PALISADE-4.3.3_MEB_PFM] test status must be 'passed'	As expected	Passed

## 4.6 ROC-DATA\_PROD-020-L0

**Requirements:** REQ-ROC-CIRD-0050

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of producing RPW L0 data files

**Test Case Scenario:** Verify that the ROC pipeline produces RPW L0 files as expected


**testers name:** X.Bonnin

**test date:** 2019/11/08

**test case status:** Passed

**test readiness status:** Ready

**comments:**

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
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Tab. 4.21: ROC-DATA\_PROD-020-L0 Known limitations

#	Known limitations
1	


Tab. 4.22: ROC-DATA\_PROD-020-L0 Prerequisites

#	Prerequisites
1	ROC Gitlab server up-and-running
2	RODP V0.3 source code available and tagged on <a href="https://gitlab.obspm.fr/ROC/Pipelines/RODP">https://gitlab.obspm.fr/ROC/Pipelines/RODP</a> Gitlab repository
3	roc2-dev.obspm.fr server up-and-running
4	Dedicated set of test data are available (see below)

Tab. 4.23: ROC-DATA\_PROD-020-L0 Test Data

#	Test Data
1	Set of input inputs in <a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/dds_to_10/inputs/">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/dds_to_10/inputs/</a>
2	Set of expected outputs in <a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/dds_to_10/expected_outputs/">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/dds_to_10/expected_outputs/</a>
3	
4	

**Test Scenario:** Verify that the ROC pipeline produces RPW L0 files as expected

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
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Tab. 4.24: ROC-DATA\_PROD-020-L0 Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Run a 0.3.0 pipeline from <a href="https://gitlab.obspm.fr/ROC/Pipelines/RODP/pipelines">https://gitlab.obspm.fr/ROC/Pipelines/RODP/pipelines</a> , check pipeline run final status and read report.html from generate_report artifact.	REQ-ROC-SSS-0210	pipeline status must be 'passed'	As expected	Passed
2	Check test_dds_to_10[MIB-20190624] test status in report.html		test_dds_to_10[MIB-20190624] test status must be 'passed'	As expected	Passed
3	Check test_dds_to_10[PALISADE-4.3.3_MEB_PFM] test status in report.html		test_dds_to_10[PALISADE-4.3.3_MEB_PFM] test status must be 'passed'	As expected	Passed

## 4.7 ROC-DATA\_PROD-030-L1

**Requirements:** REQ-ROC-CIRD-0060

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of producing RPW L1 data files

**Test Case Scenario:** Verify that the ROC pipeline produces RPW L1 files as expected


**testers name:** X.Bonnin

**test date:** 2019/11/08

**test case status:** Passed with limitations

**test readiness status:** Ready

**comments:** Done with RODP

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
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Tab. 4.25: ROC-DATA\_PROD-030-L1 Known limitations

#	Known limitations
1	Some L1 CDF productions are missing (SBM1/SBM2, BIAS sweep/current)
2	Some L1 CDF processing is not complete (HFR LIST mode, QUALITY_BITMASK)


Tab. 4.26: ROC-DATA\_PROD-030-L1 Prerequisites

#	Prerequisites
1	ROC Gitlab server up-and-running
2	RODP V0.3 source code available and tagged on <a href="https://gitlab.obspm.fr/ROC/Pipelines/RODP">https://gitlab.obspm.fr/ROC/Pipelines/RODP</a> Gitlab repository
3	roc2-dev.obspm.fr server up-and-running
4	Dedicated set of test data are available (see below)
5	

Tab. 4.27: ROC-DATA\_PROD-030-L1 Test Data

#	Test Data
1	Set of input inputs in <a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/10_to_11_surv/inputs/">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/10_to_11_surv/inputs/</a>
2	Set of expected outputs in <a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/10_to_11_surv/expected_outputs/">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/10_to_11_surv/expected_outputs/</a>
3	
4	

**Test Scenario:** Verify that the ROC pipeline produces RPW L1 files as expected

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
		Issue <b>01</b>	Revision <b>02</b>
		Date: December 20, 2019	Page: <b>20</b>

Tab. 4.28: ROC-DATA\_PROD-030-L1 Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Run a 0.3.0 pipeline from <a href="https://gitlab.obspm.fr/ROC/Pipelines/RODP/pipelines">https://gitlab.obspm.fr/ROC/Pipelines/RODP/pipelines</a> , check pipeline run final status and read report.html from generate_report artifact.	REQ-ROC-SSS-0170, REQ-ROC-SSS-0190, REQ-ROC-SSS-0220, REQ-ROC-SSS-0260, REQ-ROC-SSS-0290, REQ-ROC-SSS-0300	pipeline status must be 'passed'	As expected	Passed
2	Check test_10_to_11_surv[MIB-20190624] test status in report.html		test_10_to_11_surv[MIB-20190624] test status must be 'passed'	As expected	Passed
3	Check test_10_to_11_surv[PALISADE-4.3.3_MEB_PFM] test status in report.html		test_10_to_11_surv[PALISADE-4.3.3_MEB_PFM] test status must be 'passed'	As expected	Passed
4	Check test_10_to_11_sbm test status in report.html		test_10_to_11_sbm test status must be 'passed'	Tagged as Skipped	Skipped
5	Check test_10_to_11_bia test status in report.html		test_10_to_11_bia test status must be 'passed'	Tagged as Skipped	Skipped
6	Check test_10_to_11_reports test status in report.html		test_10_to_11_reports test status must be 'passed'	Tagged as Skipped	Skipped

## 4.8 ROC-DATA\_PROD-040-L2

**Requirements:** REQ-ROC-CIRD-0070


**Version:** 1

**Created By:** Q-N. Nguyen

**Reviewed By:** X. Bonnin, S. Lion

**Test Case Description:** Test the ROC capability of producing RPW L2 data files with BICAS

**Test Case Scenario:** Verify that the ROC pipeline produces RPW L2 files as expected with BICAS

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
		Issue <b>01</b>	Revision <b>02</b>
		Date: December 20, 2019	Page: <b>21</b>

**testers name:** Q-N. Nguyen

**test date:** 2019/12/06

**test case status:** Passed with limitations

**test readiness status:** Partially ready

**comments:** See known\_limitations

Tab. 4.29: ROC-DATA\_PROD-040-L2 Known limitations

#	Known limitations
1	Tested for RGTS data production only
2	Tested with RIVP instance
3	No QUALITY_FLAG value setting
4	No ancillary data processing


Tab. 4.30: ROC-DATA\_PROD-040-L2 Prerequisites

#	Prerequisites
1	ROC Gitlab server up-and-running
2	RIVP V0.1.3 source code available and tagged on <a href="https://gitlab.obspm.fr/ROC/Pipelines/RIVP">https://gitlab.obspm.fr/ROC/Pipelines/RIVP</a> Gitlab repository
3	roc2-dev.obspm.fr server up-and-running
4	Dedicated set of test data are available (see below)

Tab. 4.31: ROC-DATA\_PROD-040-L2 Test Data

#	Test Data
1	<a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/validation/RSS4VC/data/ROC-DATA_PROD-040-L2/TESTDATA_RGTS_BICAS_V0.2.0B_191105.zip">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/validation/RSS4VC/data/ROC-DATA_PROD-040-L2/TESTDATA_RGTS_BICAS_V0.2.0B_191105.zip</a>

**Test Scenario:** Verify that the ROC pipeline produces RPW L2 files as expected with BICAS

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
		Issue <b>01</b>	Revision <b>02</b>
		Date: December 20, 2019	Page: <b>22</b>

Tab. 4.32: ROC-DATA\_PROD-040-L2 Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Run a 0.1.3 pipeline from <a href="https://gitlab.obspm.fr/ROC/Pipelines/RIVP/pipelines">https://gitlab.obspm.fr/ROC/Pipelines/RIVP/pipelines</a> , check pipeline run final status and read report.html from generate_report artifact.	REQ-ROC-SSS-0640, REQ-ROC-SSS-0240, REQ-ROC-SSS-0250, REQ-ROC-SSS-0270, REQ-ROC-SSS-0280, REQ-ROC-SSS-0430	pipeline status must be 'passed'	As expected (pipeline run 4720 on gitlab)	
2	Check test_cawa_run[BICAS-LFR-SBM1-CWF-E] test status in report.html.		test_cawa_run[BICAS-LFR-SBM1-CWF-E] test status must be 'passed'	As expected	
3	Check test_cawa_run[BICAS-LFR-SBM2-CWF-E] test status in report.html.		test_cawa_run[BICAS-LFR-SBM2-CWF-E] test status must be 'passed'	As expected	
4	Check test_cawa_run[BICAS-LFR-SURV-CWF-E] test status in report.html.		test_cawa_run[BICAS-LFR-SURV-CWF-E] test status must be 'passed'	As expected	

## 4.9 ROC-DATA\_PROD-041-L2

**Requirements:** REQ-ROC-CIRD-0070

**Version:** 1

**Created By:** Q-N. Nguyen


**Reviewed By:** X. Bonnin, S. Lion

**Test Case Description:** Test the ROC capability of producing RPW L2 data files with LFR\_CALBUT

**Test Case Scenario:** Verify that the ROC pipeline produces RPW L2 files as expected with LFR\_CALBUT

**testers name:** Q-N. Nguyen

**test date:** 2019/11/08

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
		Issue <b>01</b>	Revision <b>02</b>
		Date: December 20, 2019	Page: <b>23</b>

**test case status:** Passed with limitations

**test readiness status:** Partially ready

**comments:** See known\_limitations

Tab. 4.33: ROC-DATA\_PROD-041-L2 Known limitations

#	Known limitations
1	Tested for RGTS data production only
2	Tested with RIVP instance
3	SOLO_L2_RPW-LFR-SURV-BP1, SOLO_L2_RPW-LFR-SURV-BP2 data production not tested
4	No QUALITY_FLAG value setting
5	No ancillary data processing

Tab. 4.34: ROC-DATA\_PROD-041-L2 Prerequisites


#	Prerequisites
1	ROC Gitlab server up-and-running
2	RIVP V0.1.3 source code available and tagged on <a href="https://gitlab.obspm.fr/ROC/Pipelines/RIVP">https://gitlab.obspm.fr/ROC/Pipelines/RIVP</a> Gitlab repository
3	roc2-dev.obspm.fr server up-and-running
4	Dedicated set of test data are available (see below)

Tab. 4.35: ROC-DATA\_PROD-041-L2 Test Data

#	Test Data
1	<a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/validation/RSS4VC/data/ROC-DATA_PROD-041-L2/TESTDATA_RGTS_LFR_CALBUT_V0.7.0_191105.zip">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/validation/RSS4VC/data/ROC-DATA_PROD-041-L2/TESTDATA_RGTS_LFR_CALBUT_V0.7.0_191105.zip</a>

**Test Scenario:** Verify that the ROC pipeline produces RPW L2 files as expected with LFR\_CALBUT



	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
		Issue <b>01</b>	Revision <b>02</b>
		Date: December 20, 2019	Page: <b>24</b>

Tab. 4.36: ROC-DATA\_PROD-041-L2 Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Run a 0.1.3 pipeline from <a href="https://gitlab.obspm.fr/ROC/Pipelines/RIVP/pipelines">https://gitlab.obspm.fr/ROC/Pipelines/RIVP/pipelines</a> , check pipeline run final status and read report.html from generate_report artifact.	REQ-ROC-SSS-0640, REQ-ROC-SSS-0240, REQ-ROC-SSS-0250, REQ-ROC-SSS-0270, REQ-ROC-SSS-0280, REQ-ROC-SSS-0430	pipeline status must be 'passed'	As expected (pipeline run 4562 on gitlab)	Passed
2	Check test_cawa_run[LFR_CALBUT_lfr_sbm1_cwf_11r] test status in report.html.	BUT-	test_cawa_run[LFR_CALBUT_lfr_sbm1_cwf_11r] test status must be 'passed'	As expected	Passed

## 4.10 ROC-DATA\_PROD-042-L2

**Requirements:** REQ-ROC-CIRD-0070

**Version:** 1

**Created By:** Q-N. Nguyen

**Reviewed By:** X. Bonnin, S. Lion

**Test Case Description:** Test the ROC capability of producing RPW L2 data files with SCMCAL

**Test Case Scenario:** Verify that the ROC pipeline produces RPW L2 files as expected with SCMCAL


**testers name:** Q-N. Nguyen

**test date:** 2019/11/08

**test case status:** Passed with limitations

**test readiness status:** Partially ready

**comments:** See known\_limitations

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
		Issue <b>01</b>	Revision <b>02</b>
		Date: December 20, 2019	Page: <b>25</b>

Tab. 4.37: ROC-DATA\_PROD-042-L2 Known limitations

#	Known limitations
1	Tested for RGTS data production only
2	Tested with RIVP instance
3	No QUALITY_FLAG value setting
4	No ancillary data processing


Tab. 4.38: ROC-DATA\_PROD-042-L2 Prerequisites

#	Prerequisites
1	ROC Gitlab server up-and-running
2	RIVP V0.1.3 source code available and tagged on <a href="https://gitlab.obspm.fr/ROC/Pipelines/RIVP">https://gitlab.obspm.fr/ROC/Pipelines/RIVP</a> Gitlab repository
3	roc2-dev.obspm.fr server up-and-running
4	Dedicated set of test data are available (see below)
5	

Tab. 4.39: ROC-DATA\_PROD-042-L2 Test Data


#	Test Data
1	<a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/validation/RSS4VC/data/ROC-DATA_PROD-042-L2/TESTDATA_RGTS_SCMCAL_V0.10.0_191105.zip">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/validation/RSS4VC/data/ROC-DATA_PROD-042-L2/TESTDATA_RGTS_SCMCAL_V0.10.0_191105.zip</a>

**Test Scenario:** Verify that the ROC pipeline produces RPW L2 files as expected with SCMCAL

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
		Issue <b>01</b>	Revision <b>02</b>
		Date: December 20, 2019	Page: <b>26</b>

Tab. 4.40: ROC-DATA\_PROD-042-L2 Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Run a 0.1.3 pipeline from <a href="https://gitlab.obspm.fr/ROC/Pipelines/RIVP/pipelines">https://gitlab.obspm.fr/ROC/Pipelines/RIVP/pipelines</a> , check pipeline run final status and read report.html from generate_report artifact.	REQ-ROC-SSS-0640, REQ-ROC-SSS-0240, REQ-ROC-SSS-0250, REQ-ROC-SSS-0270, REQ-ROC-SSS-0280, REQ-ROC-SSS-0430	pipeline status must be 'passed'	As expected (pipeline run 4562 on gitlab)	Passed
2	Check <a href="https://gitlab.obspm.fr/ROC/Pipelines/RIVP/pipelines">https://gitlab.obspm.fr/ROC/Pipelines/RIVP/pipelines</a> test status		test_cawa_run[SCMCAL-lfr_surv_swf_b_12] test status must be 'passed'	AssertionError (see <a href="https://gitlab.obspm.fr/ROC/Validation/issues/20">https://gitlab.obspm.fr/ROC/Validation/issues/20</a> )	Failed
3	Check test_cawa_run[SCMCAL-lfr_surv_swf_b_12] test status in report.html.		test_cawa_run[SCMCAL-lfr_surv_cwf_b_12] test status must be 'passed'	As expected	Passed
4	Check test_cawa_run[SCMCAL-lfr_surv_cwf_b_12] test status in report.html.		test_cawa_run[SCMCAL-lfr_sbm1_cwf_b_12] test status must be 'passed'	As expected	Passed
5	Check test_cawa_run[SCMCAL-lfr_sbm1_cwf_b_12] test status in report.html.		test_cawa_run[SCMCAL-lfr_sbm2_cwf_b_12] test status must be 'passed'	As expected	Passed
6	Check test_cawa_run[SCMCAL-lfr_sbm2_cwf_b_12] test status in report.html.		test_cawa_run[SCMCAL-tds_lfm_cwf_b_12] test status must be 'passed'	As expected	Passed
7	Check test_cawa_run[SCMCAL-tds_lfm_cwf_b_12] test status in report.html.		test_cawa_run[SCMCAL-tds_lfm_rswf_b_12] test status must be 'passed'	As expected	Passed
8	Check test_cawa_run[SCMCAL-tds_lfm_rswf_b_12] test status in report.html.		test_cawa_run[SCMCAL-tds_sbm1_rswf_b_12] test status must be 'passed'	AssertionError (see <a href="https://gitlab.obspm.fr/ROC/Validation/issues/20">https://gitlab.obspm.fr/ROC/Validation/issues/20</a> )	Failed

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
		Issue <b>01</b>	Revision <b>02</b>
		Date: December 20, 2019	Page: <b>27</b>

## 4.11 ROC-DATA\_PROD-043-L2

**Requirements:** REQ-ROC-CIRD-0070

**Version:** 1

**Created By:** Q-N. Nguyen

**Reviewed By:** X. Bonnin, S. Lion

**Test Case Description:** Test the ROC capability of producing RPW L2 data files with TDS\_CALBA

**Test Case Scenario:** Verify that the ROC pipeline produces RPW L2 files as expected with TDS\_CALBA

**testers name:** Q-N. Nguyen

**test date:** 2019/11/08

**test case status:** Passed with limitations

**test readiness status:** Partially ready


**comments:** See known\_limitations

Tab. 4.41: ROC-DATA\_PROD-043-L2 Known limitations

#	Known limitations
1	Tested for RGTS data production only
2	Tested with RIVP instance
3	The function “tds_surv_rswf” has been tested separately (not with Gitlab CI)
4	The function “tds_surv_tswf” is not tested
5	No test related to SBM1/SBM2 mode L1R/L2 CDF data production
6	No QUALITY_FLAG value setting
7	No ancillary data processing

Tab. 4.42: ROC-DATA\_PROD-043-L2 Prerequisites

#	Prerequisites
1	ROC Gitlab server up-and-running
2	RIVP V0.1.3 source code available and tagged on <a href="https://gitlab.obspm.fr/ROC/Pipelines/RIVP">https://gitlab.obspm.fr/ROC/Pipelines/RIVP</a> Gitlab repository
3	roc2-dev.obspm.fr server up-and-running
4	Dedicated set of test data are available (see below)
5	

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
		Issue <b>01</b>	Revision <b>02</b>
		Date: December 20, 2019	Page: <b>28</b>


Tab. 4.43: ROC-DATA\_PROD-043-L2 Test Data

#	Test Data
1	<a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/validation/RSS4VC/data/ROC-DATA_PROD-043-L2/TESTDATA_RGTS_TDS_CALBA_V0.8.5_191105.zip">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/validation/RSS4VC/data/ROC-DATA_PROD-043-L2/TESTDATA_RGTS_TDS_CALBA_V0.8.5_191105.zip</a>

**Test Scenario:** Verify that the ROC pipeline produces RPW L2 files as expected with TDS\_CALBA

Tab. 4.44: ROC-DATA\_PROD-043-L2 Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Run a pipeline from <a href="https://gitlab.obspm.fr/ROC/Pipelines/RIVP/pipelines">https://gitlab.obspm.fr/ROC/Pipelines/RIVP/pipelines</a> , check pipeline run final status and read report.html from generate_report artifact.	0.1.3 REQ-ROC-SSS-0640, REQ-ROC-SSS-0240, REQ-ROC-SSS-0250, REQ-ROC-SSS-0270, REQ-ROC-SSS-0280, REQ-ROC-SSS-0430	pipeline status must be 'passed'	As expected (pipeline run 4562 on gitlab)	Passed
2	Check test_cawa_run[TDS_CALBA-tds_lfm_cwf] test status in report.html.		test_cawa_run[TDS_CALBA-tds_lfm_cwf] test status must be 'passed'	As expected	Passed
3	Check test_cawa_run[TDS_CALBA-tds_lfm_rswf] test status in report.html.		test_cawa_run[TDS_CALBA-tds_lfm_rswf] test status must be 'passed'	As expected	Passed
4	Check test_cawa_run[TDS_CALBA-tds_surv_mamp] test status in report.html.		test_cawa_run[TDS_CALBA-tds_surv_mamp] test status must be 'passed'	As expected	Passed
5	Check test_cawa_run[TDS_CALBA-tds_surv_stat] test status in report.html.		test_cawa_run[TDS_CALBA-tds_surv_stat] test status must be 'passed'	As expected	Passed
6	Check test_cawa_run[TDS_CALBA-tds_surv_hist1d] test status in report.html.		test_cawa_run[TDS_CALBA-tds_surv_hist1d] test status must be 'passed'	As expected	Failed

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
		Issue <b>01</b>	Revision <b>02</b>
		Date: December 20, 2019	Page: <b>29</b>

## 4.12 ROC-DATA\_PROD-044-L2

**Requirements:** REQ-ROC-CIRD-0070

**Version:** 1

**Created By:** Q-N. Nguyen

**Reviewed By:** X. Bonnin, S. Lion

**Test Case Description:** Test the ROC capability of producing RPW L2 data files with THR\_CALBAR

**Test Case Scenario:** Verify that the ROC pipeline produces RPW L2 files as expected with THR\_CALBAR

**testers name:** Q-N. Nguyen

**test date:** 2019/11/08

**test case status:** Passed with limitations

**test readiness status:** Partially ready

**comments:** See known\_limitations

Tab. 4.45: ROC-DATA\_PROD-044-L2 Known limitations

#	Known limitations
1	Tested for RGTS data production only
2	Tested with RIVP instance
3	No test related to SBM1/SBM2 mode L1R/L2 CDF data production
4	No QUALITY_FLAG value setting


Tab. 4.46: ROC-DATA\_PROD-044-L2 Prerequisites

#	Prerequisites
1	ROC Gitlab server up-and-running
2	RIVP V0.1.3 source code available and tagged on <a href="https://gitlab.obspm.fr/ROC/Pipelines/RIVP">https://gitlab.obspm.fr/ROC/Pipelines/RIVP</a> Gitlab repository
3	roc2-dev.obspm.fr server up-and-running
4	Dedicated set of test data are available (see below)
5	

Tab. 4.47: ROC-DATA\_PROD-044-L2 Test Data

#	Test Data
1	<a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/validation/RSS4VC/data/ROC-DATA_PROD-044-L2/TESTDATA_RGTS_THR_CALBAR_V1.2.2_191105.zip">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/validation/RSS4VC/data/ROC-DATA_PROD-044-L2/TESTDATA_RGTS_THR_CALBAR_V1.2.2_191105.zip</a>

**Test Scenario:** Verify that the ROC pipeline produces RPW L2 files as expected with THR\_CALBAR

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
		Issue <b>01</b>	Revision <b>02</b>
		Date: December 20, 2019	Page: <b>30</b>

Tab. 4.48: ROC-DATA\_PROD-044-L2 Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Run a 0.1.3 pipeline from <a href="https://gitlab.obspm.fr/ROC/Pipelines/RIVP/pipelines">https://gitlab.obspm.fr/ROC/Pipelines/RIVP/pipelines</a> , check pipeline run final status and read report.html from generate_report artifact.	REQ-ROC-SSS-0640, REQ-ROC-SSS-0240, REQ-ROC-SSS-0250, REQ-ROC-SSS-0270, REQ-ROC-SSS-0280, REQ-ROC-SSS-0430	pipeline status must be 'passed'	As expected (pipeline run 4562 on gitlab)	Passed
2	Check test_cawa_run[THR_CALBAR-tnr_l2_cal] test status in report.html.		test_cawa_run[THR_CALBAR-tnr_l2_cal] test status must be 'passed'	AssertionError (see <a href="https://gitlab.obspm.fr/ROC/Validation/issues/19">https://gitlab.obspm.fr/ROC/Validation/issues/19</a> )	Failed
3	Check test_cawa_run[THR_CALBAR-hfr_l2_cal] test status in report.html.		test_cawa_run[THR_CALBAR-hfr_l2_cal] test status must be 'passed'	AssertionError (see <a href="https://gitlab.obspm.fr/ROC/Validation/issues/19">https://gitlab.obspm.fr/ROC/Validation/issues/19</a> )	Failed

## 4.13 ROC-DATA\_PROD-060-HK

**Requirements:** REQ-ROC-CIRD-0090

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of producing RPW HK “digest” data files


**Test Case Scenario:** Verify that the ROC pipeline produces RPW HK “digest” files as expected

**testers name:** X.Bonnin

**test date:** 2019/11/08

**test case status:** Passed with limitations

**test readiness status:** Ready

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
		Issue <b>01</b>	Revision <b>02</b>
		Date: December 20, 2019	Page: <b>31</b>

**comments:** Done with RODP

Tab. 4.49: ROC-DATA\_PROD-060-HK Known limitations

#	Known limitations
1	Output HK CDF are provided with 'raw' values instead of 'engineering'

Tab. 4.50: ROC-DATA\_PROD-060-HK Prerequisites


#	Prerequisites
1	ROC Gitlab server up-and-running
2	RODP V0.3 source code available and tagged on <a href="https://gitlab.obspm.fr/ROC/Pipelines/RODP">https://gitlab.obspm.fr/ROC/Pipelines/RODP</a> Gitlab repository
3	roc2-dev.obspm.fr server up-and-running
4	Dedicated set of test data are available (see below)
5	

Tab. 4.51: ROC-DATA\_PROD-060-HK Test Data

#	Test Data
1	Set of input inputs in <a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/10_to_hk/inputs/">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/10_to_hk/inputs/</a>
2	Set of expected outputs in <a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/10_to_hk/expected_outputs/">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rodp/film/10_to_hk/expected_outputs/</a>
3	
4	

**Test Scenario:** Verify that the ROC pipeline produces RPW HK “digest” files as expected



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Tab. 4.52: ROC-DATA\_PROD-060-HK Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Run a 0.3.0 pipeline from <a href="https://gitlab.obspm.fr/ROC/Pipelines/RODP/pipelines">https://gitlab.obspm.fr/ROC/Pipelines/RODP/pipelines</a> then check pipeline run final status	REQ-ROC-SSS-0230, REQ-ROC-SSS-0190, REQ-ROC-SSS-0170	pipeline status must be 'passed'	As expected	Passed
2	Check test_10_to_hk[MIB-20190624] test status in <a href="https://roc.pages.obspm.fr/Pipelines/RODP/report.html">https://roc.pages.obspm.fr/Pipelines/RODP/report.html</a>		test_10_to_hk[MIB-20190624] must be 'passed'	As expected	Passed
3	Check test_10_to_hk[PALISADE-4.3.3_MEB_PFM] test status in <a href="https://roc.pages.obspm.fr/Pipelines/RODP/report.html">https://roc.pages.obspm.fr/Pipelines/RODP/report.html</a>		test_10_to_hk[PALISADE-4.3.3_MEB_PFM] must be 'passed'	As expected	Passed
4					

## 4.14 ROC-DATA\_PROD-065-REPORT

**Requirements:** REQ-ROC-CIRD-0340, REQ-ROC-CIRD-0820

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of producing daily reports of RPW status


**Test Case Scenario:** Verify that the ROC pipeline produces RPW daily status reports as expected

**testers name:** X.Bonnin

**test date:** YYYY/MM/DD

**test case status:** Not executed

**test readiness status:** Not ready

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**comments:** Not fully implemented

Tab. 4.53: ROC-DATA\_PROD-065-REPORT Known limitations

#	Known limitations
1	

Tab. 4.54: ROC-DATA\_PROD-065-REPORT Prerequisites

#	Prerequisites
1	
2	
3	
4	

Tab. 4.55: ROC-DATA\_PROD-065-REPORT Test Data

#	Test Data
1	
2	
3	

**Test Scenario:** Verify that the ROC pipeline produces RPW daily status reports as expected

Tab. 4.56: ROC-DATA\_PROD-065-REPORT Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1		REQ-ROC-SSS-0310			
2		REQ-ROC-URD-0740			

## 4.15 ROC-DATA\_PROD-090-REPROC

**Requirements:** REQ-ROC-CIRD-0130

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the re-processing of RPW data products



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**Test Case Scenario:** Verify that the RODP is able to re-process RPW data products as expected

**testers name:**

**test date:** YYYY/MM/DD

**test case status:** Not ready

**test readiness status:** Not ready

**comments:** Implemented but test not defined

Tab. 4.57: ROC-DATA\_PROD-090-REPROC Known limitations

#	Known limitations
1	

Tab. 4.58: ROC-DATA\_PROD-090-REPROC Prerequisites

#	Prerequisites
1	
2	
3	

Tab. 4.59: ROC-DATA\_PROD-090-REPROC Test Data

#	Test Data
1	
2	
3	

**Test Scenario:** Verify that the RODP is able to re-process RPW data products as expected

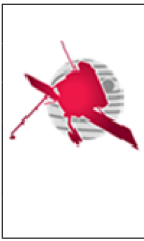
Tab. 4.60: ROC-DATA\_PROD-090-REPROC Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1		REQ-ROC-SSS-0370			
2					

## 4.16 ROC-DATA\_PROD-100-OBT.UTC

**Requirements:** REQ-ROC-CIRD-0140

**Version:** 1



# RSS4VC Test Report

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**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the conversion of OBT to UTC time

**Test Case Scenario:** Verify that the RODP has the capability of converting OBT to UTC

**testers name:**

**test date:** YYYY/MM/DD

**test case status:** Not executed

**test readiness status:** Not ready

**comments:** Required valid SCLK SPICE kernels from SOC to test

Tab. 4.61: ROC-DATA\_PROD-100-OBT.UTC Known limitations

#	Known limitations
1	

Tab. 4.62: ROC-DATA\_PROD-100-OBT.UTC Prerequisites

#	Prerequisites
1	
2	
3	

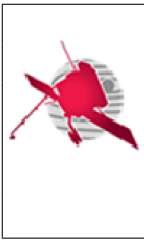
Tab. 4.63: ROC-DATA\_PROD-100-OBT.UTC Test Data

#	Test Data
1	
2	
3	

**Test Scenario:** Verify that the RODP has the capability of converting OBT to UTC

Tab. 4.64: ROC-DATA\_PROD-100-OBT.UTC Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1		REQ-ROC-SSS-0180			
2					
3					



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## 4.17 ROC-DATA\_VISU-010-VISU

**Requirements:** REQ-ROC-CIRD-0200

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of visualizing RPW data

**Test Case Scenario:** Verify that RPW data can view as listed in the ROC User Requirements

**testers name:**

**test date:** YYYY/MM/DD

**test case status:** Not executed

**test readiness status:** Not ready

**comments:** Capability not implemented

Tab. 4.65: ROC-DATA\_VISU-010-VISU Known limitations

#	Known limitations
1	

Tab. 4.66: ROC-DATA\_VISU-010-VISU Prerequisites

#	Prerequisites
1	
2	
3	

Tab. 4.67: ROC-DATA\_VISU-010-VISU Test Data

#	Test Data
1	
2	
3	

**Test Scenario:** Verify that RPW data can view as listed in the ROC User Requirements



# RSS4VC Test Report

Ref: **ROC-TST-VAL-PLN-00111-LES**

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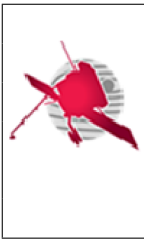
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Tab. 4.68: ROC-DATA\_VISU-010-VISU Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1		REQ-ROC-URD-0070, REQ-ROC-URD-0260, REQ-ROC-URD-0160, REQ-ROC-URD-0170, REQ-ROC-URD-0140, REQ-ROC-URD-0240, REQ-ROC-URD-0190, REQ-ROC-URD-0090, REQ-ROC-URD-0210, REQ-ROC-URD-0080, REQ-ROC-URD-0150, REQ-ROC-URD-0200, REQ-ROC-URD-0100, REQ-ROC-URD-0110, REQ-ROC-URD-0270, REQ-ROC-URD-0250, REQ-ROC-URD-0230, REQ-ROC-URD-0290, REQ-ROC-URD-0280, REQ-ROC-URD-0180, REQ-ROC-URD-0120, REQ-ROC-URD-0130, REQ-ROC-URD-0220			
37			CHAPTER 4. TESTS	CASE DETAILED RESULTS	
2					



# RSS4VC Test Report

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## 4.18 ROC-GRD\_SUP-010-DATA\_VISU

**Requirements:** REQ-ROC-CIRD-0380

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of visualizing RPW data generated during calibration campaign on-ground

**Test Case Scenario:** Verify that RPW data can view as listed in the ROC User Requirements

**testers name:** X.Bonnin (ROC), J.Segur (CNES)

**test date:** 2016/05/04

**test case status:** Passed

**test readiness status:** Already run

**comments:** RPW calibration campaign on-ground is terminated

Tab. 4.69: ROC-GRD\_SUP-010-DATA\_VISU Known limitations

#	Known limitations
1	


Tab. 4.70: ROC-GRD\_SUP-010-DATA\_VISU Prerequisites

#	Prerequisites
1	
2	
3	
4	

Tab. 4.71: ROC-GRD\_SUP-010-DATA\_VISU Test Data

#	Test Data
1	
2	
3	

**Test Scenario:** Verify that RPW data can view as listed in the ROC User Requirements

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Tab. 4.72: ROC-GRD\_SUP-010-DATA\_VISU Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1		REQ-ROC-SSS-0550, REQ-ROC-SSS-0560, REQ-ROC-SSS-0580, REQ-ROC-SSS-0590, REQ-ROC-SSS-0600, REQ-ROC-URD-0860			
2					
3					

## 4.19 ROC-GRD\_SUP-020-DATA\_DIST

**Requirements:** REQ-ROC-CIRD-0390

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of distributing RPW data generated during calibration campaign on-ground

**Test Case Scenario:** Verify that RPW data can view as listed in the ROC User Requirements

**testers name:** X.Bonnin (ROC) and RPW TDS/LFR/THR/SCM/BIAS teams

**test date:** 2016/05/04

**test case status:** Passed


**test readiness status:** Already run

**comments:** RPW calibration campaign on-ground is terminated

Tab. 4.73: ROC-GRD\_SUP-020-DATA\_DIST Known limitations

#	Known limitations
1	



	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
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Tab. 4.74: ROC-GRD\_SUP-020-DATA\_DIST Prerequisites

#	Prerequisites
1	
2	
3	

Tab. 4.75: ROC-GRD\_SUP-020-DATA\_DIST Test Data

#	Test Data
1	
2	
3	

**Test Scenario:** Verify that RPW data can view as listed in the ROC User Requirements

Tab. 4.76: ROC-GRD\_SUP-020-DATA\_DIST Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1		REQ-ROC-SSS-0610, REQ-ROC-SSS-0560, REQ-ROC-SSS-0570, REQ-ROC-SSS-0550, REQ-ROC-SSS-0590, REQ-ROC-SSS-0580			
2					
3					

## 4.20 ROC-GRD\_SUP-030-RPW\_ANOMALY

**Requirements:** REQ-ROC-CIRD-0400

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion



# RSS4VC Test Report

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**Test Case Description:** Test the ROC capability of retrieving RPW-related data required for anomaly investigations

**Test Case Scenario:** Verify that the ROC can process and provide ROC-SGSE data products generated by MEB GSE on-ground during mission

**testers name:** X.Bonnin (ROC), D.Berard (ROC)

**test date:** 2019/11/08

**test case status:** Partially passed

**test readiness status:** Partially ready

**comments:** Capability not fully tested

Tab. 4.77: ROC-GRD\_SUP-030-RPW\_ANOMALY Known limitations

#	Known limitations
1	Dissemination step not tested


Tab. 4.78: ROC-GRD\_SUP-030-RPW\_ANOMALY Prerequisites

#	Prerequisites
1	ROC Gitlab server up-and-running
2	RGTS V3.4.3 source code available and tagged on <a href="https://gitlab.obspm.fr/ROC/Pipelines/ROC-SGSE">https://gitlab.obspm.fr/ROC/Pipelines/ROC-SGSE</a> Gitlab repository
3	roc2-dev.obspm.fr server up-and-running
4	Dedicated set of test data are available (see below)
5	MEB GSE database up-and-running
6	ROC HTTPS server up-and-running

Tab. 4.79: ROC-GRD\_SUP-030-RPW\_ANOMALY Test Data

#	Test Data
1	Set of input inputs in <a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rgts/guest/from_xml/inputs/">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rgts/guest/from_xml/inputs/</a>
2	Set of expected outputs in <a href="https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rgts/guest/from_xml/expected_outputs/">https://rpw.lesia.obspm.fr/roc/data/private/devtest/roc/test_data/rgts/guest/from_xml/expected_outputs/</a>
3	
4	

**Test Scenario:** Verify that the ROC can process and provide ROC-SGSE data products generated by MEB GSE on-ground during mission

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
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Tab. 4.80: ROC-GRD\_SUP-030-RPW\_ANOMALY Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Run a 3.4.3 pipeline from <a href="https://gitlab.obspm.fr/ROC/Pipelines/RGTS/pipelines">https://gitlab.obspm.fr/ROC/Pipelines/RGTS/pipelines</a> and check pipeline run final status	REQ-ROC-SSS-0550, REQ-ROC-SSS-0580, REQ-ROC-SSS-0560, REQ-ROC-SSS-0590, REQ-ROC-SSS-0570, REQ-ROC-SSS-0610	pipeline status must be 'passed'	As expected	Passed
2	Check test_from_xml[PALISADE-4.3.3_MEB_PFM] test status in <a href="https://roc.pages.obspm.fr/Pipelines/RODP/report.html">https://roc.pages.obspm.fr/Pipelines/RODP/report.html</a>		test_from_xml[PALISADE-4.3.3_MEB_PFM] test status must be 'passed'	As expected	Passed
3					
4					

## 4.21 ROC-ROC\_MONIT-010-RSS

**Requirements:** REQ-ROC-CIRD-0420

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion


**Test Case Description:** Test the ROC capability of monitoring its operational infrastructure

**Test Case Scenario:** Verify that the ROC team can monitor the good health of the operational infrastructure

**testers name:** S.Lion (ROC), X.Bonnin (ROC), Q.N.Nguyen (ROC), N.Fuller (ROC)

**test date:** YYYY/MM/DD

**test case status:** Not executed

	<h1>RSS4VC Test Report</h1>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
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**test readiness status:** Partially ready

**comments:** Test not defined

Tab. 4.81: ROC-ROC\_MONIT-010-RSS Known limitations

#	Known limitations
1	

Tab. 4.82: ROC-ROC\_MONIT-010-RSS Prerequisites

#	Prerequisites
1	
2	
3	

Tab. 4.83: ROC-ROC\_MONIT-010-RSS Test Data

#	Test Data
1	
2	
3	

**Test Scenario:** Verify that the ROC team can monitor the good health of the operational infrastructure

Tab. 4.84: ROC-ROC\_MONIT-010-RSS Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Open <a href="https://gitlab.ospm.fr/ROC/Pipelines/RODP/pipelines">https://gitlab.ospm.fr/ROC/Pipelines/RODP/pipelines</a>				
2	Run Pipeline				
3	Check status				

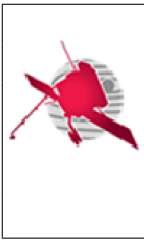
## 4.22 ROC-RPW\_COM-040-RESOU

**Requirements:** REQ-ROC-CIRD-0250

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion



# RSS4VC Test Report

Ref: **ROC-TST-VAL-PLN-00111-LES**

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**Test Case Description:** Test the ROC capability of computing predictive/as-flown RPW resources (telemetry, power)

**Test Case Scenario:** None

**testers name:**

**test date:** YYYY/MM/DD

**test case status:** Not executed

**test readiness status:** Not ready

**comments:** Inputs provided by ESA are insufficient to perform the test

Tab. 4.85: ROC-RPW\_COM-040-RESOU Known limitations

#	Known limitations
1	
2	

Tab. 4.86: ROC-RPW\_COM-040-RESOU Prerequisites

#	Prerequisites
1	RPW telemetry rate calculator up-and-running
2	TRAC program up-and-running
3	

Tab. 4.87: ROC-RPW\_COM-040-RESOU Test Data

#	Test Data
1	
2	
3	

**Test Scenario:** None

Tab. 4.88: ROC-RPW\_COM-040-RESOU Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1		REQ-ROC-URD-0620, REQ-ROC-URD-0630, REQ-ROC-URD-0640, REQ-ROC-URD-0650, REQ-ROC-URD-0670, REQ-ROC-URD-0680, REQ-ROC-URD-0690,			
2					
3					

## 4.23 ROC-RPW\_COM-110-SEQ\_TEST

**Requirements:** REQ-ROC-CIRD-0320

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of executing RPW TC sequences on the MEB GSE.

**Test Case Scenario:** Verify that the user can import TC sequences into the MEB GSE tool


**testers name:** D.Berard (ROC)

**test date:** 2019/11/05

**test case status:** Passed

**test readiness status:** Ready

**comments:**

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Tab. 4.89: ROC-RPW\_COM-110-SEQ\_TEST Known limitations

#	Known limitations
1	Export of named loop parameters not yet implemented

Tab. 4.90: ROC-RPW\_COM-110-SEQ\_TEST Prerequisites

#	Prerequisites
1	Up-and-running test instance of MUSIC on localhost:8000
2	Access to Firefox/Chrome/Chromium Browser
3	Testcase ROC-RPW_COM-100-SEQ_PROD-01 executed and successful
4	C-SGSE instance up and running

Tab. 4.91: ROC-RPW\_COM-110-SEQ\_TEST Test Data

#	Test Data
1	The SVT1B sequences
2	MIB-20190624

**Test Scenario:** Verify that the user can import TC sequences into the MEB GSE tool

Tab. 4.92: ROC-RPW\_COM-110-SEQ\_TEST Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Connect to the Figaro application at localhost:8000/app/figaro	REQ-ROC-URD-0371	The interface shall display several tabs representing the different procedure types	As expected	Passed
2	Export the AIWF032A sequence as a C-SGSE XML file		The operator shall be able to download the XML file	As expected	Passed
3	Import the XML file using the C-SGSE instance		No error shall occurred during import	As expected	Passed

## 4.24 ROC-RPW\_COM-120-SEQ\_SOUR

**Requirements:** REQ-ROC-CIRD-0330

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion



# RSS4VC Test Report

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**Test Case Description:** Test the ROC capability of using the MIB to generate IOR, PDOR and MDOR.

**Test Case Scenario:** Verify that the user can export valid IOR, PDOR and MDOR using MIB

**testers name:** S.Lion (ROC)

**test date:** YYYY/MM/DD

**test case status:** Not executed

**test readiness status:** Not ready

**comments:** Test not defined

Tab. 4.93: ROC-RPW\_COM-120-SEQ\_SOUR Known limitations

#	Known limitations
1	

Tab. 4.94: ROC-RPW\_COM-120-SEQ\_SOUR Prerequisites

#	Prerequisites
1	

Tab. 4.95: ROC-RPW\_COM-120-SEQ\_SOUR Test Data

#	Test Data
1	
2	
3	

**Test Scenario:** Verify that the user can export valid IOR, PDOR and MDOR using MIB

Tab. 4.96: ROC-RPW\_COM-120-SEQ\_SOUR Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1		REQ-ROC-URD-0330			

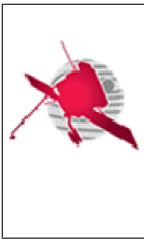
## 4.25 ROC-RPW\_MONIT-010-RPW\_DATA

**Requirements:** REQ-ROC-CIRD-0340

**Version:** 1

**Created By:** X. Bonnin





# RSS4VC Test Report

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**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of monitoring RPW data.

**Test Case Scenario:** Verify that the ROC/RPW teams can analyze RPW data

**testers name:**

**test date:** YYYY/MM/DD

**test case status:** Not executed

**test readiness status:** Not ready

**comments:** Test not defined

Tab. 4.97: ROC-RPW\_MONIT-010-RPW\_DATA Known limitations

#	Known limitations
1	

Tab. 4.98: ROC-RPW\_MONIT-010-RPW\_DATA Prerequisites

#	Prerequisites
1	A running instance of MUSIC VX.Y.Z on roc-dev:8000
2	Access to Firefox/Chrome/Chromium Browser
3	

Tab. 4.99: ROC-RPW\_MONIT-010-RPW\_DATA Test Data

#	Test Data
1	
2	

**Test Scenario:** Verify that the ROC/RPW teams can analyze RPW data



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Tab. 4.100: ROC-RPW\_MONIT-010-RPW\_DATA Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1	Navigate to <a href="http://roc-dev:8000/app/tv/">http://roc-dev:8000/app/tv/</a>	REQ-ROC-URD-0780, REQ-ROC-URD-0760, REQ-ROC-URD-0240, REQ-ROC-URD-0290, REQ-ROC-URD-0270, REQ-ROC-URD-0260, REQ-ROC-URD-0750, REQ-ROC-URD-0220, REQ-ROC-URD-0280, REQ-ROC-URD-0210, REQ-ROC-SSS-0310	The MUSIC TV application should open		
2					

## 4.26 ROC-RPW\_MONIT-020-TM\_S1

**Requirements:** REQ-ROC-CIRD-0350

**Version:** 1

**Created By:** X. Bonnin


**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of verifying the acceptance and execution completion of a RPW TC uplinked on-board.

**Test Case Scenario:** Verify that the ROC operator can check Service 1 TM

**testers name:** D.Berard (ROC)

**test date:** YYYY/MM/DD

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**test case status:** Not executed

**test readiness status:** Partially ready

**comments:** Test not defined.

Tab. 4.101: ROC-RPW\_MONIT-020-TM\_S1 Known limitations

#	Known limitations
1	Service 1 TM are listed in the MOC DDS TcReport and RPW L0 files (dedicated page in MUSIC-TV is not implemented yet)

Tab. 4.102: ROC-RPW\_MONIT-020-TM\_S1 Prerequisites

#	Prerequisites
1	

Tab. 4.103: ROC-RPW\_MONIT-020-TM\_S1 Test Data

#	Test Data
1	
2	
3	

**Test Scenario:** Verify that the ROC operator can check Service 1 TM

Tab. 4.104: ROC-RPW\_MONIT-020-TM\_S1 Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1		REQ-ROC-SSS-0310, REQ-ROC-URD-0740			
2					

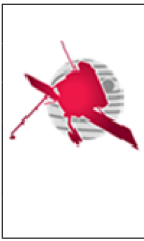
## 4.27 ROC-RPW\_MONIT-030-ISM

**Requirements:** REQ-ROC-CIRD-0360

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion



# RSS4VC Test Report

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**Test Case Description:** Test the ROC capability of verifying that the instrument is in the expected configuration after TC execution

**Test Case Scenario:** Verify that the ROC operator can check RPW state on-board before commanding testers name: D.Berard (ROC)

**test date:** YYYY/MM/DD

**test case status:** Not executed

**test readiness status:** Not ready

**comments:** Test not defined

Tab. 4.105: ROC-RPW\_MONIT-030-ISM Known limitations

#	Known limitations
1	

Tab. 4.106: ROC-RPW\_MONIT-030-ISM Prerequisites

#	Prerequisites
1	
2	


Tab. 4.107: ROC-RPW\_MONIT-030-ISM Test Data

#	Test Data
1	
2	
3	

**Test Scenario:** Verify that the ROC operator can check RPW state on-board before commanding

Tab. 4.108: ROC-RPW\_MONIT-030-ISM Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1		REQ-ROC-SSS-0310, REQ-ROC-URD-0740, REQ-ROC-URD-0750			
2					

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## 4.28 ROC-RPW\_MONIT-040-SW\_PATCH

**Requirements:** REQ-ROC-CIRD-0370

**Version:** 1

**Created By:** X. Bonnin

**Reviewed By:** S. Lion

**Test Case Description:** Test the ROC capability of verifying that a flight software update has been correctly applied.

**Test Case Scenario:** Verify that the ROC/RPW teams can check the good execution of the flight software update

**testers name:** D.Berard (ROC), L.R.Malac-Allain (RPW flight software team)

**test date:** 2019/08/09

**test case status:** Passed with limitations

**test readiness status:** Ready

**comments:** RPW flight software patch have been performed during SVT1B test

Tab. 4.109: ROC-RPW\_MONIT-040-SW\_PATCH Known limitations

#	Known limitations
1	MOC-provided MDOR manual stack are not checked automatically
2	No specific interface to deliver incoming data products to the flight software team


Tab. 4.110: ROC-RPW\_MONIT-040-SW\_PATCH Prerequisites

#	Prerequisites
1	

Tab. 4.111: ROC-RPW\_MONIT-040-SW\_PATCH Test Data


#	Test Data
1	
2	
3	

**Test Scenario:** Verify that the ROC/RPW teams can check the good execution of the flight software update

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Tab. 4.112: ROC-RPW\_MONIT-040-SW\_PATCH Test Steps

#	Step Details	ID of specification(s)	Expected Results	Actual Results	Status
1		REQ-ROC-URD-0770	See ROC-TST-VAL-RPT-00110-LES_Iss01_Rev00(SVT1B_Report).pdf		
2					

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## 5 Conclusions


### 5.1 Conclusion meeting notes

Table below gives a summary of the test review performed during the RSS4VC conclusion meeting on November 25, 2019.

Tab. 5.1: Test review

Test case ID	Review notes
ROC-DATA_ARCH-010-LESIA-01	Storage infrastructure is up-and-running but not test available. Operational long-term data volume to store RPW products is planned to be deployed during the commissioning phase.
ROC-DATA_DIST-010-PRE_DATA-01	Infrastructure is up-and-running. Automated processes are not fully implemented and tested.
ROC-DATA_DIST-015-PRE_DATA-01	Infrastructure is up-and-running but not tested (for mission data).
ROC-DATA_DIST-020-ANC-01	Infrastructure is up-and-running. Automated processes are not fully implemented and tested. No representative set of SPICE kernels available for the RSS4VC
ROC-DATA_PROD-010-LZ-01	OK
ROC-DATA_PROD-020-L0-01	OK
ROC-DATA_PROD-030-L1-01	OK but SBM1/SBM2 and BIAS sweep/current L1 CDF production not tested. No SPICE kernel used for OBT-UTC-TT2000 conversion. QUALITY_BITMASK, SOOP_ID and OBS_ID setting not implemented. This shall be done before the launch!
ROC-DATA_PROD-040-L2-01	OK but missing L1R/L2 CDF production. No SPICE kernel used. QUALITY_FLAG setting not implemented. This shall be done before the launch!
ROC-DATA_PROD-041-L2-01	OK but missing L1R/L2 CDF production. No SPICE kernel used. QUALITY_FLAG setting not implemented. This shall be done before the launch!

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Test case ID	Review notes
ROC-DATA_PROD-042-L2-01	OK but missing L1R/L2 CDF production. No SPICE kernel used. QUALITY_FLAG setting not implemented. This shall be done before the launch!
ROC-DATA_PROD-043-L2-01	OK but missing L1R/L2 CDF production. No SPICE kernel used. QUALITY_FLAG setting not implemented. This shall be done before the launch!
ROC-DATA_PROD-044-L2-01	OK but QUALITY_FLAG setting not implemented. This shall be done before the launch!
ROC-DATA_PROD-060-HK-01	OK (raw values provided, but not a critical problem for RCS teams)
ROC-DATA_PROD-065-REPORT-01	Not fully implemented and tested. This shall be done before the launch!
ROC-DATA_PROD-090-REPROC-01	Implemented but not tested. The re-processing of data is not fully automated (triggered by a ROC operator).
ROC-DATA_PROD-100-OBT.UTC-01	Not tested with “operational” SPICE kernels (no representative set of SPICE kernels available for the RSS4VC). This shall be done before the launch!
ROC-DATA_VISU-010-VISU-01	Not fully implemented.
ROC-GRD_SUP-010-DATA_VISU-01	Up-and-running. Used during thermal calibrations.
ROC-GRD_SUP-020-DATA_DIST-01	Up-and-running. Used during thermal calibrations.
ROC-GRD_SUP-030-RPW_ANOMALY-01	GSE facilities are ready to be used, but no test or rehearsal was run.
ROC-ROC_MONIT-010-RSS-01	Only software log files. No test implemented yet.
ROC-RPW_COM-040-RESOU-01	Tools exist (TRAC for as-flown and SoopKitchen + calculator for predictive) but no test implemented yet.
ROC-RPW_COM-110-SEQ_TEST-01	TC sequences can be exported as MEB GSE TcScript from the FAUST tool. Some bugs reported (see test card and appendix).
ROC-RPW_COM-120-SEQ_SOUR-01	OK for IOR and PDOR. MDOR are generated from TcScript delivered by the RPW flight team.
ROC-RPW_MONIT-010-RPW_DATA-01	24-hours a day monitoring is performed by the MOC team. No near real-time monitoring at LESIA. ROC ensures the command/control monitoring during commissioning. RPW sub-system monitoring is ensured by the sub-system teams. Implementation of interfaces with the flight software (MEB GSE test log export) and system (RPW data CSV export) teams at LESIA must be ended before launch!
ROC-RPW_MONIT-020-TM_S1-01	MOC EDDS TcReport available. Visualization tool not fully implemented. Export to MA-SGSE tool available in backup.

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Test case ID	Review notes
ROC-RPW_MONIT-030-ISM-01	Operation support tools implemented ( <a href="https://gitlab.obsmp.fr/ROC/SupportTools/tree/master/Operations">https://gitlab.obsmp.fr/ROC/SupportTools/tree/master/Operations</a> ) but not tested. Not fully automated process.
ROC-RPW_MONIT-040-SW_PATCH-01	ROC verifies command execution and check software version in HK. RPW Flight software team at LESIA is in support in case of anomaly during upgrade. Unexpected behaviour in the data will be reported by sub-system teams.

It was also noticed that:

- ROC testing environment has been successfully used during campaign.
- The interfaces with SOC and MOC (GFTS, DDS) as well as inputs for operations (TC sequences, IOR, PDOR, MODR) have been validated during specific tests (GFTS/DDS interface tests, SVT and E2E), but no complete end-to-end test or rehearsal has been performed with SOC/MOC. Moreover, no test has been run related to the MTP level planning activity and the Solar Orbiter data archiving at ESAC.
- The needs and requirements related to the interfaces between CNES and ROC teams during the commissioning were not fully defined in the high-level requirement documentation.

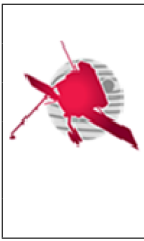
## 5.2 Overall conclusion

The RSS4VC have been passed with the following caveats:

- ROC main critical functions to ensure the commissioning and early cruise phase activities have been partially implemented and tested.
- Some capabilities are implemented but not tested. The test coverage will have to be completed for the next ROC validation campaign.
- ROC functions have been tested individually, since the conditions to perform full end-to-end tests or rehearsal were not fulfilled. A special attention shall be paid when running the complete workflows at the beginning of the mission.

In conclusions, the ROC should be ready to ensure activities during the commissioning and early cruise phases under the following conditions:

- Implement critical missing capabilities (production of all the expected products, interfaces between ROC and RPW team at CNES (Toulouse) as well as ROC and RPW flight software/system teams at LESIA are up-and-running, ROC command/control and resource monitoring tools are fully operational)



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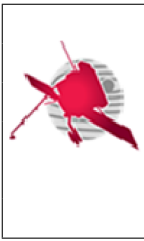
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- The RPW team at CNES is capable of retrieving and analyzing data required, in order to ensure the validation of the instrument during the commissioning phase.
- The RPW teams is capable of retrieving and analyzing data, in order to support validation of the instrument during the commissioning phase, maintain RCS up-to-date and ensure the science data quality for their sub-system.
- The MOC team is capable of ensuring the instrument monitoring, as defined in the RPW User Manual and SY-CRP-000 documents.



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# 6 Appendix A - test cases involving ESA

Table gives the current status and importance of test cases to be performed with ESA in the loop.

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Tab. 6.1: ROC - ESA test result overview

Test case ID	Status	Importance	Reference
ROC-DATA_ARCH-020-ESAC-01	Not tested (waiting for ESA)	High	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/33">https://gitlab.obspm.fr/ROC/Validation/issues/33</a>
ROC-DATA_PROD-080-LL01-01	Partially passed	High	<a href="https://gitlab.obspm.fr/ROC/Pipelines/LLVM/issues/25">https://gitlab.obspm.fr/ROC/Pipelines/LLVM/issues/25</a>
ROC-DATA_RETR-010-RPW-01	Passed with limitations	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/34">https://gitlab.obspm.fr/ROC/Validation/issues/34</a>
ROC-DATA_RETR-020-OPS-01	Passed with limitations	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/35">https://gitlab.obspm.fr/ROC/Validation/issues/35</a>
ROC-DATA_RETR-030-ANC-01	Not tested (waiting for ESA)	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/36">https://gitlab.obspm.fr/ROC/Validation/issues/36</a>
ROC-RPW_COM-010-MTP_PROD-01	No SOC-provided operation inputs for MTP cycle	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/22">https://gitlab.obspm.fr/ROC/Validation/issues/22</a>
ROC-RPW_COM-020-MTP_DELIV-01	Not tested (waiting for ESA)	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/37">https://gitlab.obspm.fr/ROC/Validation/issues/37</a>
ROC-RPW_COM-030-MTP_CONST-01	No SOC-provided operation inputs for MTP cycle	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/38">https://gitlab.obspm.fr/ROC/Validation/issues/38</a>
ROC-RPW_COM-050-STP_PROD-01	Passed with limitations	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/15">https://gitlab.obspm.fr/ROC/Validation/issues/15</a>
ROC-RPW_COM-060-STP_DELIV-01	Passed with limitations	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/39">https://gitlab.obspm.fr/ROC/Validation/issues/39</a>
ROC-RPW_COM-080-PDOR_PROD-01	Partially passed	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/16">https://gitlab.obspm.fr/ROC/Validation/issues/16</a>
ROC-RPW_COM-081-PDOR_DELIV-01	Passed with limitations	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/40">https://gitlab.obspm.fr/ROC/Validation/issues/40</a>
ROC-RPW_COM-090-MDOR_PROD-01	Partially passed	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/41">https://gitlab.obspm.fr/ROC/Validation/issues/41</a>
ROC-RPW_COM-091-MDOR_DELIV-01	Passed with limitations	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/42">https://gitlab.obspm.fr/ROC/Validation/issues/42</a>
ROC-RPW_COM-100-SEQ_PROD-01	Partially passed with limitations	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/14">https://gitlab.obspm.fr/ROC/Validation/issues/14</a>
ROC-RPW_COM-101-SEQ_DELIV-01	Passed with limitations	Critical	<a href="https://gitlab.obspm.fr/ROC/Validation/issues/43">https://gitlab.obspm.fr/ROC/Validation/issues/43</a>

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## 7 Appendix B - MUSIC GUI beta-tester issue report

### 7.1 MUSIC-FIGARO


Table below presents the list of issues reported by the beta-tester during the ROC-RPW\_COM-100-SEQ\_PROD test case on MUSIC-FIGARO. See also <https://gitlab.obspm.fr/ROC/Validation/issues/14>.

Tab. 7.1: RSS4VC MUSIC-FIGARO test result overview

Type of issue	Possible impacts	URL
Bug	Wrong TC duration in sequence	<a href="https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/238">https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/238</a>
Bug	Missing TC in a sequence	<a href="https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/239">https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/239</a>
Improvement	Wrong hex value in TC parameter	<a href="https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/240">https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/240</a>
Improvement	Sequence is not well formatted by steps	<a href="https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/241">https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/241</a>
Improvement	Loop parameter value is not updated as expected	<a href="https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/242">https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/242</a>
Improvement	Wrong def/dec parameter value in the current sequence	<a href="https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/243">https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/243</a>
Improvement	Current sequence can be exported without last changes	<a href="https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/244">https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/244</a>


### 7.2 MUSIC-FAUST

Table below presents the list of issues reported by the tester during the on MUSIC-FAUST. See also <https://gitlab.obspm.fr/ROC/Validation/issues/16>, <https://gitlab.obspm.fr/ROC/Validation/issues/17>, .

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Tab. 7.2: RSS4VC MUSIC-FAUST test result overview

Type of issue	Possible impacts	URL
Bug	Operation scenarios cannot be run with the C-SGSE	<a href="https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/247">https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/247</a>
Bug	Exported PDOR/IOR are wrong	<a href="https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/245">https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/245</a>
Improvement	Exported PDOR are badly named	<a href="https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/246">https://gitlab.obspm.fr/ROC/MUSIC/MUSIC_GUI/issues/246</a>

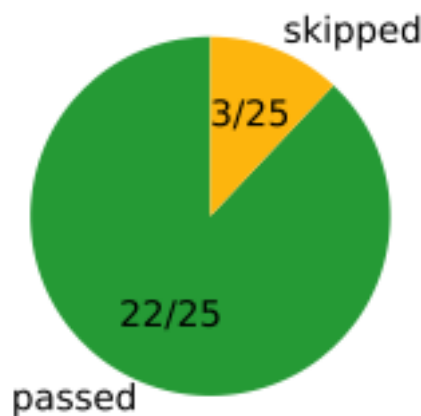
	<h2>RSS4VC Test Report</h2>	Ref: <b>ROC-TST-VAL-PLN-00111-LES</b>	
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## 8 Appendix C - ROC - ROC software automated test results overview

This section presents an overview of the results of the test cases, performed during the RSS4VC using the ROC continuous integration environment. Results are presented by software instead of test cases.


Details of the automated test results for each software can be read in the corresponding gitlab report HTML files, available in [RD2].

Figure below gives the total number of tests passed, skipped and failed when running RODP without RCS from the Gitlab CI interface. A copy of the RODP automated test HTML report, as generated by Gitlab, can be found in [RD2].



The production of RPW LZ, L0, L1 and HK data files using the RODP has been successfully tested with known limitations:

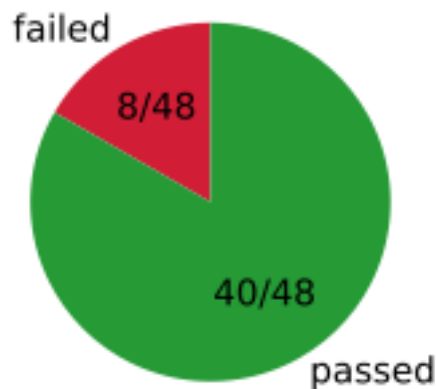
- Generation of some L1 CDF products is not fully implemented in the pipeline, namely: SBM1/SBM2 mode data, Bias current/sweep data, instrument status reports
- Processing of zVariables is not fully operational: QUALITY\_BITMASK, OBS\_ID, SOOP\_ID, HFR LIST mode
- OBT to UTC time conversion has been implemented but no tested (required valid SCLK SPICE kernels from SOC to test)

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- Parameter values in HK CDFs are given in ‘raw’ instead of ‘engineering’ units.

The three ‘skipped’ tests - test\_l0\_to\_l1\_sbm, test\_l0\_to\_l1\_bia, test\_l0\_to\_reports concern the production of the L1 SBM1/SBM2, Bias sweep/current and instrument status report data products.

Figure below gives the total number of tests passed, skipped and failed when running RCS with RIVP from the Gitlab CI interface. A copy of the RIVP automated test HTML report, as generated by Gitlab, can be found in [RD2].



The production of RPW L1R, L2 data files using the RCS has been tested and passed with limitations:

- Generation of some L1R, L2 CDF products is not fully implemented in the pipeline
- Tests have been run using a light stand-alone instance of the ROC pipeline (RIVP)
- No processing of ancillary data

The production of RPW LZ, L0, L1 and HK data files using the RGTS has been successfully tested.

Figure below gives the total number of tests passed, skipped and failed when running RGTS from the Gitlab CI interface. A copy of the RGTS automated test HTML report, as generated by Gitlab, can be found in [RD2].

The two ‘failed’ and three ‘skipped’ tests do not concern the RGTS, but data products to be generated by the RODP with a module common to both pipelines.

Figure below gives the total number of tests passed, skipped and failed when running MUSIC from the Gitlab CI interface. A copy of the MUSIC automated test HTML report, as generated by Gitlab, can be found in [RD2].

List of bugs and nice-to-have features reported by the beta-tester during the campaign can be found in the *Appendix B - MUSIC GUI beta-tester issue report*.





# RSS4VC Test Report

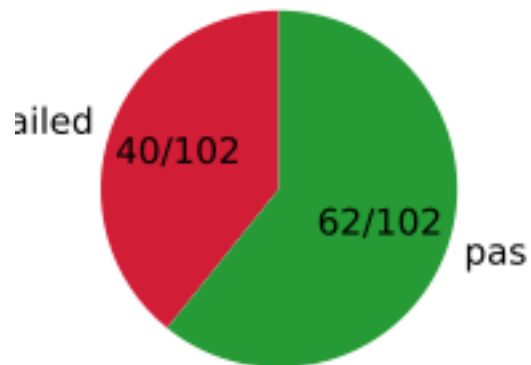
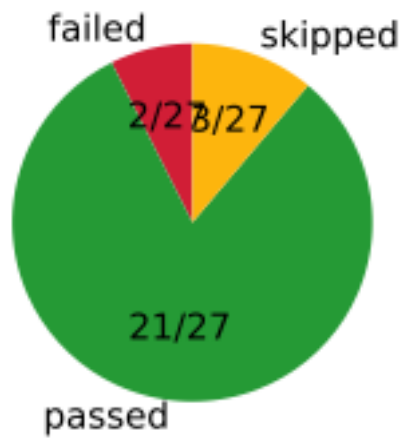
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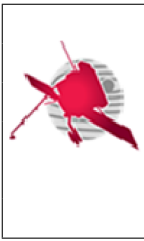
## 8.1 Impact of the test environment

The specificity of the test environment are summarized in the following table.

Tab. 8.1: Specificity of the test environment

IDB version/source	MIB-20190624 (also tested with PALISADE-4.3.3_MEB_PFM)
IDB database engine	Postgres
Application database engine	SQLite
Web server	Django
JavaScript compilation mode	Development

More generally, the test environment does not fully reproduce the production environment, since no full end-to-end test were performed. This is clearly a discrepancy w.r.t. the expected behaviour of the software in production. Besides, no near real-time as well as performance tests were run during the RSS4VC.



# RSS4VC Test Report

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## 9 List of TBC/TBD/TBWS

| TBC/TBD/TBWS | Description | Section | | | | | TBD | Update detla  
RSS4VC results | 4 and 5 |

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## 10 Distribution list

Tab. 10.1: Distribution list

Name	Institute
X.Bonnin	LESIA
S.Lion	LESIA
Q-N.Nguyen	LESIA
N.Fuller	LESIA
S.Papais	NEXEYA
I.Fratter	CNES
E.Lorfevre	CNES
D.Raulin	CNES
D.Bagot	CNES