
	<h1>RSS4VC Test Plan</h1>	Ref: ROC-TST-VAL-PLN-00108-LES	
		Issue 01	Revision 01
		Date: December 20, 2019	



RSS4VC Test Plan

ROC-TST-VAL-PLN-00108-LES

Iss.01, Rev.01

Prepared by	Date	Signature
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Verified by	Date	Signature
S.Papais RPW ground segment product assurance manager		
Approved by	Date	Signature
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CLASSIFICATION

PUBLIC

RESTRICTED



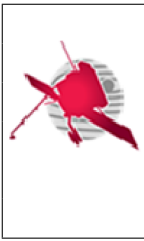
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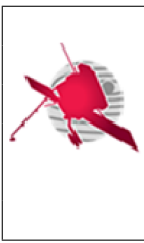
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Change Record

Issue	Rev.	Date	Authors	Modifications
1	0	07/10/2019	S. Lion and X.Bonnin	First issue
1	1	20/12/2019	Lion and X.Bonnin	Update test card information

Acronym List

Acronym	Definition
CCSDS	Consultative Committee for Space Data Systems
CDF	Common Data Format
CUC	CCSDS Unsegmented time Code
HF	High Frequency
ICD	Interface Control Document
LF	Low Frequency
LL	Low Latency
MEB	Main Electronic Box
PA	Pre-Amplifier
RLLP	RPW Low Latency Pipeline
ROC	RPW Operation Centre
ROT	RPW Operation Toolkit
RPW	Radio and Plasma Waves instrument
SCM	Search Coil Magnetometer
SGS	Science Ground Segment
SGSE	Software Ground Support Equipment
SOC	Science Operation Centre
TDS	Time Domain Sampler
THR	Thermal Noise and High Frequency Receivers
ssh	Secure Shell
SWF	Snapshot Waveform
XML	eXtended Markup Language



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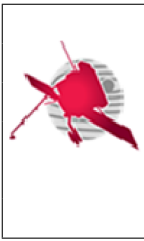
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1 General

1.1 Scope of the document

This document presents the test plan related to the validation of the ROC Software System release 4 (RSS4).

It presents the design, organization and definition of the tests to be performed during the RSS4 validation campaign (RSS4VC).

ROC validation overall strategy is presented in the ROC Verification and Validation Plan (RVVP) [AD1]


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-GEN-SYS-PLN-00015-LES/2/3	ROC Software Development Plan (SDP)	Xavier Bonnin	17/11/2017
RD2	ROC-TST-OTH-NTT-00079-LES/1/0	ROC Test Report template	Xavier Bonnin	14/12/2018
RD3	ROC-PRO-PIP-ICD-00037-LES/1/2	RPW Calibration Software Interface Control Document (RCS ICD)	Manuel Duarte, Xavier Bonnin	05/06/2019
RD4	ROC-GEN-SYS-NTT-00019-LES/2/0	ROC Engineering Guidelines for External Users (REGU)	Xavier Bonnin	17/11/2017
RD5	SOL-SGS-TN-0009/2/4	Metadata Definition for Solar Orbiter Science Data	SOC and MADAWG teams	02/09/2019

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].

2 Test design

2.1 Objectives and perimeter

2.1.1 Objectives

The objective of the RSS4VC is to perform the validation of the ROC Software System release 4 (RSS4). The RSS4 is expected to be fully functional to start the RPW-related activities planned during the commissioning and cruise phases of the Solar Orbiter mission.


The tests run during RSS4VC shall permit to verify the compliance of the technical requirements expected for the RSS4, as listed in the RVVP [AD1].

2.1.2 Perimeter

The RSS4VC tests are designed to validate the following software units:

Tab. 2.1: ROC software involved in the RSS4VC tests.

Software	Version	Comments
MUSIC operation tools	0.2	Only FIGARO And FAUST tools
RPW Operation and Data Pipeline (RODP)	0.3	DDS client tested separately No SPICE kernel use No SBM and Bias L1 production.
ROC Ground Test SGSE (RGTS)	3.4	RGTS is already in production, but is also validated.
RCS Interface Validation Pipeline (RIVP)	0.1.3	RCS run is tested with this tailored instance of the ROC pipeline.

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Tab. 2.2: RPW calibration software (RCS) involved in the RSS4VC tests.

Software	Version	Comment
BICAS	0.2.0	Tested with ROC-SGSE data only
LFR_CALBUT	0.7.0	Tested with ROC-SGSE data only
SCMCAL	0.9.0	Tested with ROC-SGSE data only
TDS_CALBA	0.8.5	Tested with ROC-SGSE data only
THR_CALBAR	1.2.2	Tested with ROC-SGSE data only

The list of test cases that will be performed during the RSS4VC are given in *RSS4VC test summary list*.

2.1.3 Known limitations

The Solar Orbiter Mission and Science Operation centres (MOC and SOC) are not involved in the ROC validation campaigns. The list of impacted requirements are provided in the *Appendix A - Validation tests involving ESA*. It mainly concerns the interfaces with the SOC and MOC (see RVVP [AD1] for more details).

In the same way the formal validation of the RPW data products is outside of the scope of the RSS4VC. Especially, the RPW data compliance with standards defined by ESA [RD5] shall be validated by the SOC.


2.2 Responsibilities

RSS validation overall responsibilities are presented in the RVVP [AD1].

2.2.1 ROC responsibilities

The ROC responsibilities in the RSS4VC are:

- RPW Ground Segment Project Manager
 - Approved the RSS4VC Test Plan
 - Approved the RSS4VC Test Report
- RPW Ground Segment Product Assurance Manager
 - Verify/check the RSS4VC Test Plan and Reports
 - Verify/check the code analysis
 - Generate the traceability matrices
- RPW Ground Segment Software Validation Engineer

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- Write the RSS4VC Test Plan and related test cards
- Write the RSS4VC Test Report
- Supervise the RSS4VC
- RPW Ground Segment Operation Engineer
 - Participate to the RSS4VC as a beta-tester for the MUSIC tool validation
- RPW Ground Segment Software Engineer
 - Participate to the RSS4VC as a tester for the RODP pipeline validation

2.2.2 RPW Calibration Software teams responsibilities

The RPW Calibration Software (RCS) teams are expected to:

- Deliver versioned RCS and corresponding test data package (input and expected output data products)
- Support ROC team during the validation tests in case of software failure
- Support ROC team in the output data products verification

2.2.3 CNES responsibilities

The CNES has no formal responsibility about the RSS4VC. Nevertheless a support is expected in order to:

- Verify the RSS4VC Test Plan
- Verify the RSS4VC Test Report
- Analyze the RSS4 code metrics
- Participate to the RSS4VC kick-off and conclusion meetings

2.2.4 ESA responsibilities

The ESA teams are not involved in the ROC validation campaigns (see RVVP [AD1] for more details).

2.3 Environment

2.3.1 Overview

Figure below gives an overview of the RSS4VC system environment.

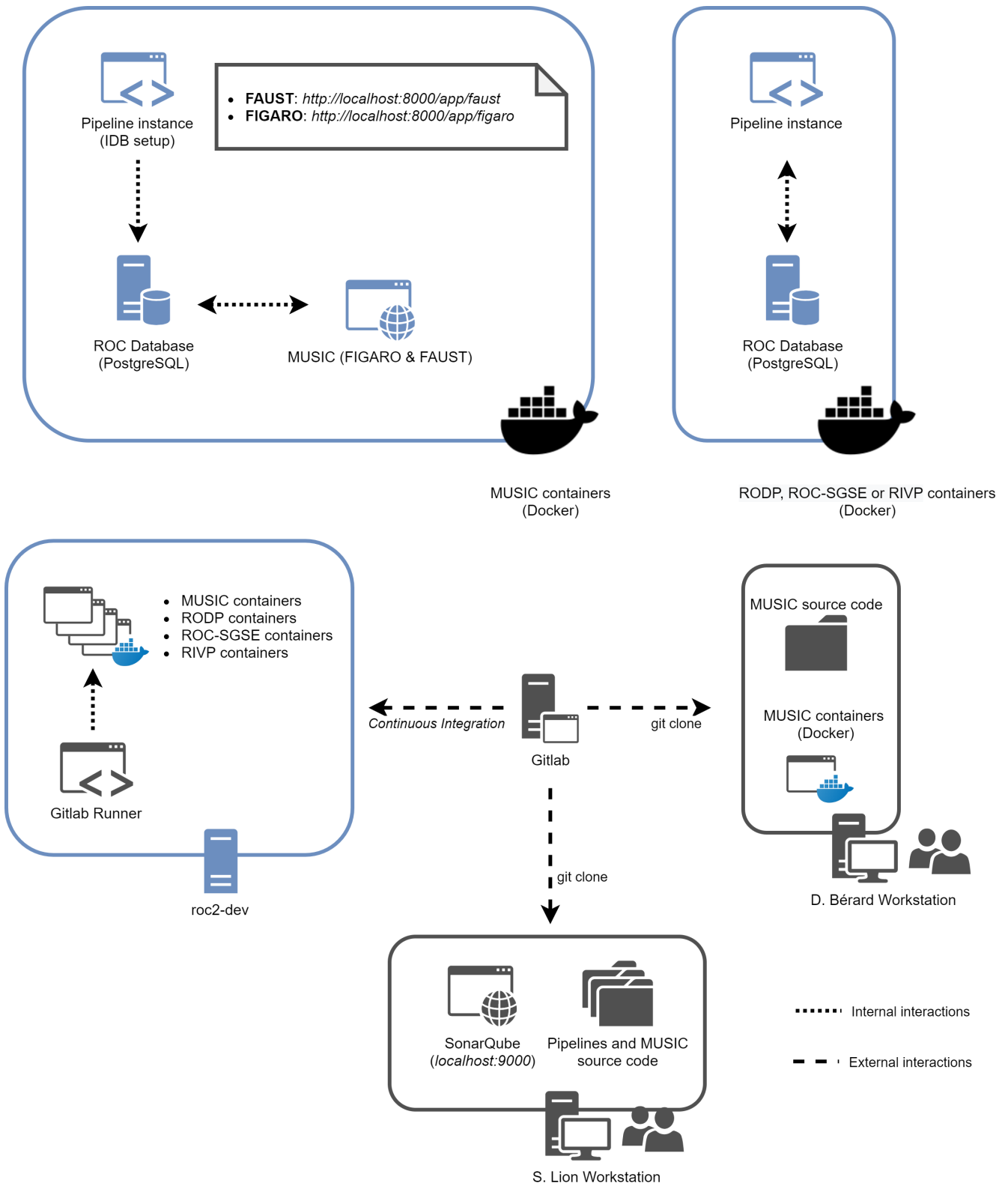



Fig. 2.1: RSS4VC environment

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The automated test environment mainly relies on the ROC continuous integration infrastructure, which uses Docker runners triggered from the Gitlab CI interface (see SDP for more details).

Additionally beta-tests, which can not be run using the Gitlab CI interface, are performed by testers from instructions provided in the related testcard.

The software metrics is ensured using Sonarqube tool.

2.3.2 Hardware

Hardware resources needed to perform the validation tests are presented in the RVVP [AD1]. All the tests will be performed using the roc development server, roc-dev.obspm.fr, at LESIA. The ROC development environment is described in [RD1].

2.3.3 Software


Software resources needed to perform the ROC validation tests are presented in the RVVP [AD1].

To test its technical specification the ROC team will rely on its continuous integration environment as described in [RD1]. Especially the ROC Gitlab server (<https://gitlab.obspm.fr>) and Docker (<https://www.docker.com/>) will be used to run the pipeline tests.

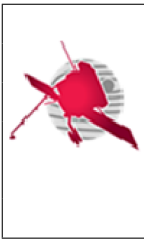
2.4 Prerequisites of the tests

Before starting the RSS4VC tests:

- The ROC Gitlab server shall be up-and-running with the expected user accounts (see section *Responsibility* for the list of people involved).
- The roc-dev.obspm.fr server shall up-and-running with the expected user accounts (see section *Responsibility* for the list of people involved).
- Versioned RCS and related test data package shall be delivered by the teams in charge as described in [RD4]
- An instance of the MUSIC V0.2 shall be ready to be deployed on the roc-dev server and the tester local machine (for beta-tests).
- An instance of the MUSIC V0.2 shall be ready to be run from the ROC Gitlab CI tool (for automated unit tests).
- An instance of the RODP V0.3 shall be ready to be run from the ROC Gitlab CI tool.
- An instance of the ROC-SGSE V3.4 shall be ready to be run from the ROC Gitlab CI tool.
- RSS4VC test data shall be saved in /volumes/plasma/rpw/roc/data/https/private/devtest/roc/test_data in the roc-dev.obspm.fr server

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- RSS4VC testcard files shall be versioned in the RSS4VC/Testcards folder of the Validation repository (i.e., <https://gitlab.ospm.fr/ROC/Validation>)
- The software source codes used for the RSS4VC shall be versioned and tagged in the dedicated gitlab repositories.



3 Test organization

3.1 Overview

The RSS4VC is planned between October 23 and 25, 2019 at LESIA site (Meudon, France).

A delta of the RSS4VC will be organized between November 4 and 22, 2019 to complete missing tests.

3.2 Schedule

Table below gives the detailed schedule.


Tab. 3.1: RSS4VC schedule

Milestone	Due date
RSS4VC data-package delivery	14/10/2019
RSS4VC kick-off meeting	23/10/2019 at 10:00
RSS4VC tests start	23/10/2019 at 14:00
RSS4VC tests end	25/10/2019
RSS4VC test report and products first delivery	04/11/2019
RSS4VC delta tests start	04/11/2019
RSS4VC tests report and products second delivery (including delta tests)	22/11/2019
RSS4VC conclusion meeting	25/11/2019 at 14:00
RSS4VC delta tests report and products final delivery	29/11/2019

3.3 Deliveries

3.3.1 RSS4VC data package

The data package to be delivered prior to the RSS4VC shall contain the following items:

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Tab. 3.2: RSS4VC test responsibility

Title	Reference	Issue
EID-A	SOL.EST.RCD.0050 Issue 6 signed	6.0
ROC Requirements	ROC-GEN-OTH-REQ-00081-LES	1.0
ROC Concept and Implementation Requirement Document (CIRD)	ROC-GEN-SYS-PLN-00002-LES	1.2
ROC Software System Specification (RSSS)	ROC-GEN-SYS-SPC-00026-LES	1.2
ROC User Requirement Document (URD)	ROC-GEN-SYS-URD-00064-LES	1.0
ROC Verification and Validation Plan (RVVP)	ROC-GEN-SYS-PLN-00040-LES	2.2
RSS4VC Test plan (present document) and associated testcard files	ROC-GEN-SYS-PLN-00040-LES	1.0
ROC traceability matrix	ROC_Traceability matrix requirements_EIDA_CIRD_RSSS_URD ROC_Traceability matrix validation_CIRD_RSSS_SVS_2019.10.17	2019.10.17, 2019.10.17,
Software Configuration File (SCF)		

3.3.2 RSS4VC Test report


The RSS4VC shall lead to the release of a test report, giving the status of the validation campaign. The test report shall follow the structure defined in the template [RD2]. Moreover, it shall be delivered with all the testcard files applied and products obtained during the campaign.

3.4 Testing procedures

Overall procedures related to the RSS4VC testing activities are presented in the RVVP [AD1].

For a given test case, the person in charge shall apply the instructions provided in the corresponding testcard file.


For a given software, the list of automated test results will be available from the CI/CD page of each ROC gitlab project (e.g., <https://gitlab.obspm.fr/ROC/Pipelines/ROC-SGSE/pipelines> for the ROC-SGSE pipeline). The details will be accessible from a static page (e.g., <https://gitlab.obspm.fr/ROC/Pipelines/ROC-SGSE/pages>).

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In case of test failure, the person in charge shall report it as a new issue in the ROC gitlab server: <https://gitlab.obspm.fr/ROC/Validation/issues> The title of the issue shall be named with the prefix “[RSS4VC]”. There shall be no unassigned issue (see next section of the list of responsibilities).

3.5 Responsibility

Table below lists the responsibility of people involved in the RSS4VC tests.


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Tab. 3.3: RSS4VC test responsibility

Entity	Role description	Name	Email
CNES	ROC quality support (metric analysis with Sonarqube)	Dominique Bagot	dominique.bagot@obspm.fr
ROC	RPW Ground Segment Operation Engineer (FIGARO/FAUST beta-tester)	Diane Bérard	diane.berad@obspm.fr
ROC	RPW Ground Segment Project Manager	Xavier Bonnin	xavier.bonnin@obspm.fr
ROC	RPW Ground Segment Software Validation Engineer	Sonny Lion	sonny.lion@obspm.fr
ROC	RPW Ground Segment Software Engineer (RCS execution tester)	Quynh Nhu Nguyen	quynh-nhu.nguyen@obspm.fr
ROC	RPW Ground Segment MUSIC frontend Engineer (MUSIC tester)	Nicolas Fuller	nicolas.fuller@obspm.fr
ROC	RPW Ground Segment Product Assurance Manager	Stéphane Papis	Stephane.PAPAIS@nexeya.com
CNES	RPW ground segment development support	Desi Raulin	desi.raulin@cnes.fr
LPP	RPW LFR ground segment support	Rodrigue Piberne	rodrigue.piberne@lpp.polytechnique.fr
IAP	RPW TDS ground segment support	David Pisa	dp@ufa.cas.cz
LPC2E	RPW SCM ground segment support	Jean-Yves Brochot	Jean-Yves.Brochot@cns-orleans.fr
TNR-HFR	RPW THR ground segment support	Quynh Nhu Nguyen	quynh-nhu.nguyen@obspm.fr
IRFU	RPW Bias ground segment support	Erik Johansson	erik.johansson@irfu.se

People in this list shall have the capability to create/edit issues on the dedicated ROC Validation page on Gitlab (see section *Testing procedures*).

Additionally, the ROC team shall be able to launch and monitor tests from the Gitlab CI/CD tool and the roc-dev.obspm.fr server.

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3.6 Test Readiness Review (TRR)

No formal Test Readiness Review (TRR) is planned before the RSS4VC. Nevertheless, a kick-off meeting between involving people (see section *Responsibility*) will have to be organized prior to the campaign, to ensure that everything is ready.

Especially, the ‘delta’ validation activities related to the RSS4VC test cases labelled as ‘Not ready’ or ‘Partially ready’ shall be discussed during the kick-off meeting.

3.7 Test Review Board (TRB)

No formal Test Review Board (TRB) is planned after the RSS4VC. Nevertheless, a conclusion meeting between involving people (see section *Responsibility*) will have to be organized to analyze the campaign results and prepare the ROC acceptance key-point.

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4 Test definition

4.1 RSS4VC test summary list

Table below gives the list of test cases which are planned to be run during the RSS4VC. The first, second and third columns give the ID of the test case, related CIRD requirements and RSSS-URD specification. The fourth and fifth columns give the priority and status of test case w.r.t to the RSS4VC. More detailed can be found in the RSS4VC testcard files delivered with the present document.



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Test Case ID	Requirement(s)	Specification(s)
ROC-DATA_ARCH-010-LESIA	REQ-ROC-CIRD-0170	REQ-ROC-SSS-0390
ROC-DATA_DIST-010- PRE_DATA	REQ-ROC-CIRD-0150	REQ-ROC-SSS-0400, REQ- ROC-SSS-0700
ROC-DATA_DIST-015- PRE_DATA	REQ-ROC-CIRD-0150	REQ-ROC-SSS-0400, REQ- ROC-SSS-0700
ROC-DATA_DIST-020-ANC	REQ-ROC-CIRD-0160	REQ-ROC-SSS-0400
ROC-DATA_PROD-010-LZ	REQ-ROC-CIRD-0040	REQ-ROC-SSS-0200
ROC-DATA_PROD-020-L0	REQ-ROC-CIRD-0050	REQ-ROC-SSS-0210
ROC-DATA_PROD-030-L1	REQ-ROC-CIRD-0060	REQ-ROC-SSS-0170, REQ- ROC-SSS-0190, REQ-ROC- SSS-0220, REQ-ROC-SSS-0260, REQ-ROC-SSS-0290, REQ- ROC-SSS-0300
ROC-DATA_PROD-040-L2	REQ-ROC-CIRD-0070	REQ-ROC-SSS-0640, REQ- ROC-SSS-0240, REQ-ROC- SSS-0250, REQ-ROC-SSS-0270, REQ-ROC-SSS-0280, REQ- ROC-SSS-0430
ROC-DATA_PROD-041-L2	REQ-ROC-CIRD-0070	REQ-ROC-SSS-0640, REQ- ROC-SSS-0240, REQ-ROC- SSS-0250, REQ-ROC-SSS-0270, REQ-ROC-SSS-0280, REQ- ROC-SSS-0430
ROC-DATA_PROD-042-L2	REQ-ROC-CIRD-0070	REQ-ROC-SSS-0640, REQ- ROC-SSS-0240, REQ-ROC- SSS-0250, REQ-ROC-SSS-0270, REQ-ROC-SSS-0280, REQ- ROC-SSS-0430
ROC-DATA_PROD-043-L2	REQ-ROC-CIRD-0070	REQ-ROC-SSS-0640, REQ- ROC-SSS-0240, REQ-ROC- SSS-0250, REQ-ROC-SSS-0270, REQ-ROC-SSS-0280, REQ- ROC-SSS-0430
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ROC-DATA_PROD-060-HK	REQ-ROC-CIRD-0090	REQ-ROC-SSS-0230, REQ- ROC-SSS-0190, REQ-ROC- SSS-0170
ROC-DATA_PROD-065- REPORT	REQ-ROC-CIRD-0340, REQ- ROC-CIRD-0820	REQ-ROC-SSS-0310, REQ- ROC-URD-0740
ROC-DATA_PROD-090- REPROC	REQ-ROC-CIRD-0130	REQ-ROC-SSS-0370
ROC-DATA_PROD-100- OBT.UTC	REQ-ROC-CIRD-0140	REQ-ROC-SSS-0180
ROC-DATA_VISU-010-VISU	REQ-ROC-CIRD-0200	REQ-ROC-URD-0070, REQ-

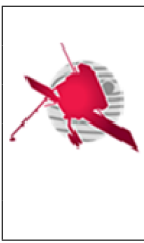
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Test cases related to the validation by ESA are presented in the *Appendix A - Validation tests involving ESA*. The test cases planned to be validated during the next ROC validation campaign (RSS5VC) are given in the *Appendix B - RSS5 Validation Campaign tests*.

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5 Appendix A - Validation tests involving ESA

Table below presents the test cases that require validation by ESA. The validation of these tests cases is hence outside of the scope of the RSS4VC.



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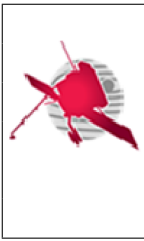
Test Case ID	Requirement(s)	Specification(s)
ROC-DATA_ARCH-020-ESAC	REQ-ROC-CIRD-0180	REQ-ROC-SSS-0410
ROC-DATA_PROD-080-LL01	REQ-ROC-CIRD-0110	REQ-ROC-SSS-0530, REQ-ROC-SSS-0540
ROC-DATA_RETR-010-RPW	REQ-ROC-CIRD-0010	REQ-ROC-SSS-0120
ROC-DATA_RETR-020-OPS	REQ-ROC-CIRD-0020	REQ-ROC-SSS-0130, REQ-ROC-SSS-0140, REQ-ROC-SSS-0150
ROC-DATA_RETR-030-ANC	REQ-ROC-CIRD-0030	REQ-ROC-SSS-0160
ROC-RPW_COM-010-MTP_PROD	REQ-ROC-CIRD-0220	REQ-ROC-URD-0460, REQ-ROC-URD-0570
ROC-RPW_COM-020-MTP_DELIV	REQ-ROC-CIRD-0230	REQ-ROC-URD-0732
ROC-RPW_COM-030-MTP_CONST	REQ-ROC-CIRD-0240	REQ-ROC-URD-0660, REQ-ROC-URD-0700
ROC-RPW_COM-050-STP_PROD	REQ-ROC-CIRD-0260	REQ-ROC-URD-0460, REQ-ROC-URD-0570
ROC-RPW_COM-060-STP_DELIV	REQ-ROC-CIRD-0270	REQ-ROC-URD-0732
ROC-RPW_COM-080-PDOR_PROD	REQ-ROC-CIRD-0290	REQ-ROC-URD-0460, REQ-ROC-URD-0590
ROC-RPW_COM-081-PDOR_DELIV	REQ-ROC-CIRD-0291	REQ-ROC-URD-0733
ROC-RPW_COM-090-MDOR_PROD	REQ-ROC-CIRD-0300	REQ-ROC-URD-0460, REQ-ROC-URD-0610
ROC-RPW_COM-091-MDOR_DELIV	REQ-ROC-CIRD-0301	REQ-ROC-URD-0734
ROC-RPW_COM-100-SEQ_PROD	REQ-ROC-CIRD-0310	REQ-ROC-URD-0310, REQ-ROC-URD-0320, REQ-ROC-URD-0370
ROC-RPW_COM-101-SEQ_DELIV	REQ-ROC-CIRD-0311	REQ-ROC-URD-0731

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6 Appendix B - RSS5 Validation Campaign tests

Table below lists the testcards that are planned to be run during the next ROC validation campaign (RSS5VC).

Test Case ID	Requirement(s)	Specification(s)
ROC-DATA_ARCH-030-CDPP	REQ-ROC-CIRD-0190	REQ-ROC-SSS-0420
ROC-DATA_PROD-050-L3	REQ-ROC-CIRD-0080	REQ-ROC-SSS-0321
ROC-DATA_PROD-070-QL	REQ-ROC-CIRD-0100	REQ-ROC-SSS-0380
ROC-GRD_SUP-040-SBM_SIMU	REQ-ROC-CIRD-0410	REQ-ROC-URD-0870, REQ-ROC-URD-0880
ROC-RPW_COM-070-SBM_EVENT	REQ-ROC-CIRD-0280	REQ-ROC-URD-0735



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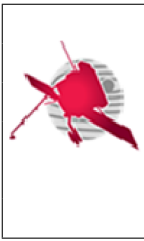
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7 List of TBC/TBD/TBWS

(TBW)



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8 Distribution list

Tab. 8.1: 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