



Rosetta ROSINA Mode Change



ROSINA Mode Change Commands

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Issue	Rev.	Pages changed, added, removed	Date	Reasons for Changes	Reviewer
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2	1	5-7	17.07.2001	Change Sensor parameter values	Bjoern
2	2	6, 7	23.08.2001	Update after FM bench test	Rev.1
2	3	6, 7	05.09.2001	Temp. Range changed to full ops range, Parameter of NRNAG32F changed, DFMS NRNAG3A4 changed	Rev.2



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1. Introduction

The scope of this document is to provide the inputs to a general Mode Change control file for system level tests of the ROSINA experiment.

1.1 Applicable Documents

AD1	RO-EST-RS-3001/EID A Issue 2	ROSETTA Experiment Interface Document Part A
AD2	RO-EST-RS-3013/EID B Issue 1	ROSETTA – ROSINA Experiment Interface Document Part B
AD3	RO-ALS-TN-4003	EID-C Part 9, Payload Test Specification

1.2 Reference Documents

RD1	ROS-TP-1016	ROSINA-DFMS Bench Test Procedure
RD2	ROS-TP-1020	ROSINA-COPS Bench Test Procedure
RD3	ROS-TP-1012	ROSINA-RTOF Bench Test Procedure
RD4	ROS-TP-1019	ROSINA Bench Test Procedure
RD5	ROS-TP-1023	ROSINA IST Inputs
RD6	ROS-TP-1021	ROSINA Input to I&T and UFT



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Project: ROSINA Model: EQM	Test Procedure Name: R0.1.1 Mode Change Pass/Fail criteria(a): Execution and Verification of general mode change command		
Test Step	Nominal value	Actual value	Remarks
6	Verify that operation mode change event report (EID 44005) was generated (YRNG3005 with NRNAG304 = 0xABE5, NRNAG305 = 0xD000, NRNAG31B = <i>PARA2</i> , NRNAG3A0 = 0XXXXX, NRNAG31C = 0XXXXX, NRNAG3A1 = 0XXXXX, NRNAG31D = 0XXXXX, NRNAG3A2 = 0XXXXX, NRNAG31E = 0XXXXX, NRNAG3A3 = 0XXXXX, NRNAG31F = <i>PARA3</i> , NRNAG320 = 0XX00)	Passed: YRNG3005 Event Packet	
7	If current Mode = DPU D4, DPU D2 AND if new Mode = COPS G5, COPS S5, RTOF S1, ALL G4, ALL S4: (YRNG3006 with NRNAG304 = 0xABE6, NRNAG322 = 0xCC40, NRNAG323 = 0, NRNAG324 = 0, NRNAG325 = 0, NRNAG326 ≈ 0, NRNAG327 ≈ 0x001C, NRNAG328 ≈ 0x0019, NRNAG329 ≈ 0x018F, NRNAG32A ≈ 0x0018, NRNAG32B ≈ 0x000B, NRNAG32C = 0x022B..0x031A, NRNAG32D = 0x022B..0x031A, NRNAG32E = 0x0100, NRNAG3A4 = 0, NRNAG32F = <i>PARA2</i> , NRNAG330 = 0)	Passed: YRNG3006 Event Packet	



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Project: ROSINA Model: EQM	Test Procedure Name: R0.1.1 Mode Change Pass/Fail criteria(a): Execution and Verification of general mode change command			
Test Step		Nominal value	Actual value	Remarks
8	<p>If current Mode = DPU D4, DPU D2, COPS S5 AND if new Mode = DFMS G2, ALL G4, ALL S4: (YRNG3006 with NRNAG304 = 0xABE6, NRNAG322 = 0xC441, NRNAG323 = 0, NRNAG324 = 0, NRNAG325 = 0, NRNAG326 ≈ 0, NRNAG327 ≈ 7, NRNAG328 ≈ 11, NRNAG329 ≈ 0x3770, NRNAG32A ≈ 0x3585, NRNAG32B ≈ 0x3fff, NRNAG32C ≈ 0x1FFF, NRNAG32D = 0..0x0100, NRNAG32E = 0x0100, NRNAG3A4 = 0..2, NRNAG32F = <i>PARA2</i>, NRNAG330 = 0)</p>	Passed: YRNG3006 Event Packet		
9	<p>If current Mode = DPU D4, DPU D2, COPS S5 AND if new Mode = RTOF G1, RTOF S1, ALL G4, ALL S4: (YRNG3006 with NRNAG304 = 0xABE6, NRNAG322 = 0xC801, NRNAG323 = 0, NRNAG324 = 0, NRNAG325 = 0, NRNAG326 ≈ 0, NRNAG327 ≈ 0x324A, NRNAG328 ≈ 0x31F8, NRNAG329 = 0x3EC4..0x3FAC, NRNAG32A = 0x00XX or 0x3FXX, NRNAG32B ≈ 0x3FF7, NRNAG32C = 0x2888..0x3DDE, NRNAG32D = 0x1D88..0x24A0, NRNAG32E = 0x0100, NRNAG3A4 = 0, NRNAG32F = <i>PARA2</i>, NRNAG330 = 0)</p>	Passed: YRNG3006 Event Packet		

The allowed range for the verification of the analog parameters (≈) is +-16.