

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Procedure Summary

Objectives

The objective of this procedure is to become the standard test for the HRS spectrometers for the PRIME side, and it addresses both H and V polarizations simultaneously.

- Switch to FPU band 5
- Execute FPU functional tests
- Execute FPU linearity test
- Execute FPU cross-polar test
- Execute HRS tuning
- Switch to FPU band 0

Based on procedure:
 HIFI-COP-1.2-HRS_FT (v6)

Summary of Constraints

Real-time science packets should be enabled for downlink for HIFI analysis

Spacecraft Configuration

Start of Procedure

End of Procedure

Reference File(s)

Input Command Sequences

Output Command Sequences
 HCHNFHR

Referenced Displays

ANDs	GRDs	SLDs
ZAZ9C999		
HA038289		
HA039289		

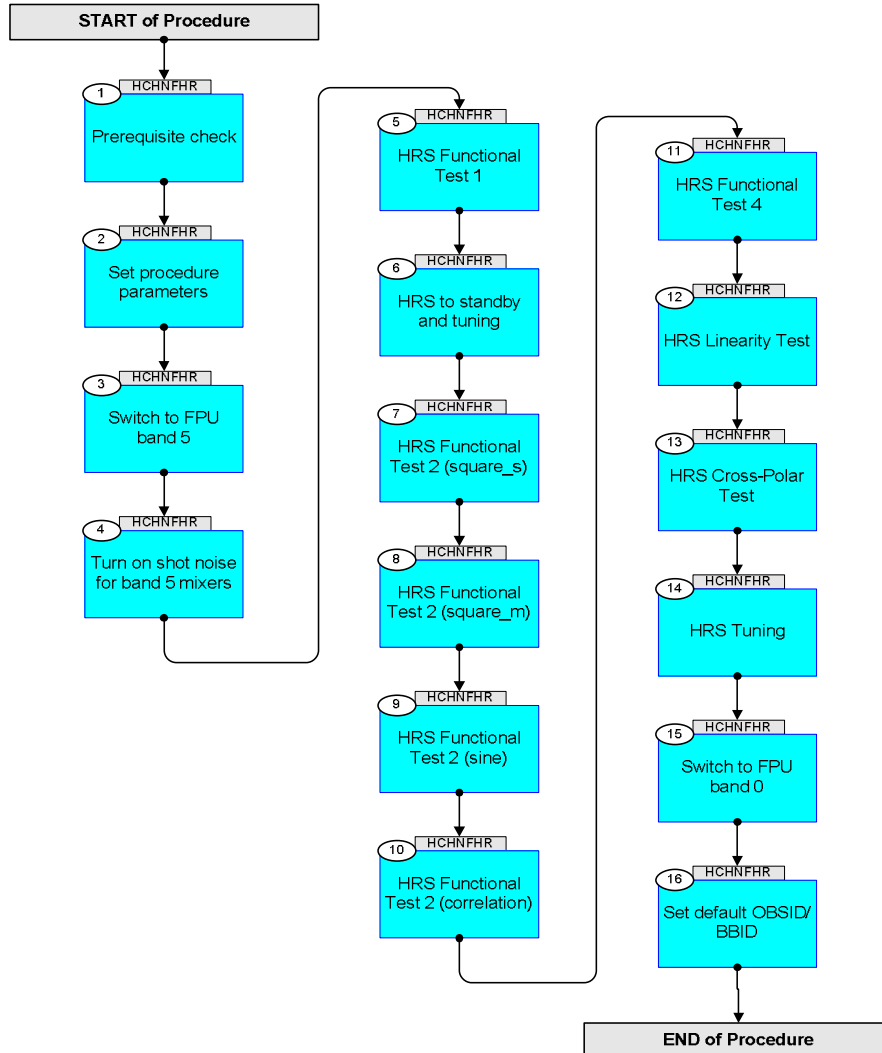
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
17/08/09	2.5	1	Created	R. Biggins	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Procedure Flowchart Overview



HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Housekeeping_on HIFI_Housekeeping_on Command Parameter(s) : HIF_HK_rate HP012197 HIF_FCU_S HP006197 HIF_LCU_S HP007197 HIF_WBSV_S HP009197 HIF_WBSH_S HP008197 HIF_HRSV_S HP011197 HIF_HRSH_S HP010197 Subsch. ID : 70 Det. descr. : Sets periodic housekeeping packet generation period	HC016289 1_pkt_per_s ON (Def) ON (Def) ON (Def) ON (Def) ON (Def) ON (Def)	
		Verify: The following TM(3,25) packets should be produced once every second: HIFI_essential_HK (APID 1024) HIFI_HK_rev_7 (APID 1026)		
3		Switch to FPU band 5		Next Step: 4
	ET=+00.00.01 UT=+00.00.01	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 HF_CPR_Mixer_H_S HP203191 HF_CPR_Mixer_V_S HP204191 HF_CPR_Chopper_S HP205191 HF_CPR_UCH_S HP206191 HF_CPR_UCV_S HP207191 Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289 1C200001 <hex> ON (Def) ON (Def) ON (Def) ON (Def) ON (Def)	
	ET=+00.00.00 UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 HF_CPR_MXBAND HP202191 HF_CH1_DPFPF1 HP176191 HF_CH2_FIF1_Drain_V HP177191 HF_CH2_FIF1_Drain_C HP178191 HF_CH2_FIF2_Drain_V HP179191 HF_CH2_FIF2_Drain_C HP180191 HF_CH2_SIF1_Drain_V HP181191 HF_CH2_SIF1_Drain_C HP182191 HF_CH2_SIF2_Drain_V HP183191 HF_CH2_SIF2_Drain_C HP184191	HC182289 1C200001 <hex> 5 <dec> 0 <dec> 0.75 V 4.0 mA 0.65 V 3.0 mA 0.8 V 2.5 mA 0.8 V 2.5 mA	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HF_CH2_SIF3_Drain_V HP185191 HF_CH2_SIF3_Drain_C HP186191 HF_CV1_DPFPF1 HP191191 HF_CV2_FIF1_Drain_V HP192191 HF_CV2_FIF1_Drain_C HP193191 HF_CV2_FIF2_Drain_V HP194191 HF_CV2_FIF2_Drain_C HP195191 HF_CV2_SIF1_Drain_V HP196191 HF_CV2_SIF1_Drain_C HP197191 HF_CV2_SIF2_Drain_V HP198191 HF_CV2_SIF2_Drain_C HP199191 HF_CV2_SIF3_Drain_V HP200191 HF_CV2_SIF3_Drain_C HP201191 HF_CPR_CH_SINE_S HP211191 HF_CPR_CH_LOOP_S HP210191 HF_CPR_CHFPG1 HP212191 HF_CPR_CHFPG2 HP213191 HF_CPR_CHFPZ1 HP214191 HF_CPR_CHFPZ2 HP215191 HF_CPR_CHFPP2 HP216191 HF_CPR_Cal_Heater_C HP217191 HF_CH1_MXBIAS_V HP172191 HF_CH1_MX_MG_C HP173191 HF_CV1_MXBIAS_V HP187191 HF_CV1_MX_MG_C HP188191 HF_P_Chopper_Rot HP454191 HF_CH1_DFACT_C HP174191 HF_CV1_DFACT_C HP189191	0.7 V 2.8 mA 0 <dec> 0.75 V 4.0 mA 0.65 V 3.0 mA 0.8 V 2.5 mA 0.8 V 2.5 mA 0.8 V 2.5 mA 0.8 V 2.5 mA ON (Def) CLOSE (Def)	
		Subsch. ID : 70		
		Det. descr. : Configure the FCU-subsystem (prime)		
	ET=+00.00.03 UT=+00.00.03	HIFI_CH1_MX_MG_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MX_MG_C HP173191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer magnet current	HIFI_CH1_MX_MG_C HC096289 1C200001 <hex> 5.5 mA	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MX_MG_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MX_MG_C HP188191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer magnet current	HIFI_CV1_MX_MG_C HC099289 1C200001 <hex> 10.8 mA	
		Verify Telemetry HF_DH1_MXBAND HM005191	= 5 <dec>	AND=ZAZ9C999
		Verify Telemetry HF_DV1_MXBAND HM096191	= 5 <dec>	AND=ZAZ9C999

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
4		Turn on shot noise for band 5 mixers		Next Step: 5
	ET+=00.00.01 UT+=00.00.01	HIFI_CH1_MX_MG_C HIFI_CH1_MX_MG_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MX_MG_C HP173191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer magnet current	HC096289 E3C0001 <hex> 0.0 mA (Def)	
	ET+=00.00.00 UT+=00.00.00	HIFI_CV1_MX_MG_C HIFI_CV1_MX_MG_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MX_MG_C HP188191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer magnet current	HC099289 E3C0001 <hex> 0.0 mA (Def)	
		Verify Telemetry HF_AH1_MXMG_C HM040191	= 0.0 mA	AND=HA038289
		Verify Telemetry HF_AV1_MXMG_C HM131191	= 0.0 mA	AND=HA039289
	ET+=00.00.01 UT+=00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 0 <hex> (Def) 5.0 mV	
	ET+=00.00.00 UT+=00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 0 <hex> (Def) 5.0 mV	
		Verify Telemetry HF_AH1_MXBIAS_V HM029191	= 5.0 mV	AND=HA038289
		Verify Telemetry HF_AV1_MXBIAS_V HM120191	= 5.0 mV	AND=HA039289

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



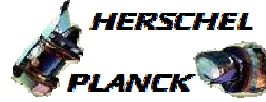
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																																																																													
5		HRS Functional Test 1		Next Step: 6																																																																													
		The TCs in all following steps should be sent automatically with the defined time separation.																																																																															
	ET=+00.00.01 UT=+00.00.01	<p>HIFI_HRS_functional_test</p> <p style="text-align: center;">HIFI_HRS_functional_test</p> <p>Command Parameter(s) :</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 40px;">HIFI_BB_ID</td> <td style="padding-left: 40px;">HP001197</td> <td style="padding-left: 40px;">E1B0001 <hex></td> </tr> <tr> <td style="padding-left: 40px;">HRS_funcstest_id</td> <td style="padding-left: 40px;">HP151192</td> <td style="padding-left: 40px;">1 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRS_selected_unit</td> <td style="padding-left: 40px;">HP152192</td> <td style="padding-left: 40px;">BOTH (Def)</td> </tr> </table> <p>Subsch. ID : 70 Det. descr. : Perform specified HRS functional test</p>	HIFI_BB_ID	HP001197	E1B0001 <hex>	HRS_funcstest_id	HP151192	1 <dec>	HRS_selected_unit	HP152192	BOTH (Def)	HC149289																																																																					
HIFI_BB_ID	HP001197	E1B0001 <hex>																																																																															
HRS_funcstest_id	HP151192	1 <dec>																																																																															
HRS_selected_unit	HP152192	BOTH (Def)																																																																															
6		HRS to standby and tuning		Next Step: 7																																																																													
	ET=+00.00.05 UT=+00.00.05	<p>HIFI_Config_HRS_H_att_lo</p> <p style="text-align: center;">HIFI_Config_HRS_H_att_lo</p> <p>Command Parameter(s) :</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 40px;">HIFI_BB_ID</td> <td style="padding-left: 40px;">HP001197</td> <td style="padding-left: 40px;">E320001 <hex></td> </tr> <tr> <td style="padding-left: 40px;">HRH_switch</td> <td style="padding-left: 40px;">HP091192</td> <td style="padding-left: 40px;">H (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_1U_ATT</td> <td style="padding-left: 40px;">HP105192</td> <td style="padding-left: 40px;">15.5 dB (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_1L_ATT</td> <td style="padding-left: 40px;">HP106192</td> <td style="padding-left: 40px;">15.5 dB (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_2U_ATT</td> <td style="padding-left: 40px;">HP107192</td> <td style="padding-left: 40px;">15.5 dB (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_2L_ATT</td> <td style="padding-left: 40px;">HP108192</td> <td style="padding-left: 40px;">15.5 dB (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_3U_ATT</td> <td style="padding-left: 40px;">HP109192</td> <td style="padding-left: 40px;">15.5 dB (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_3L_ATT</td> <td style="padding-left: 40px;">HP110192</td> <td style="padding-left: 40px;">15.5 dB (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_4U_ATT</td> <td style="padding-left: 40px;">HP111192</td> <td style="padding-left: 40px;">15.5 dB (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_4L_ATT</td> <td style="padding-left: 40px;">HP112192</td> <td style="padding-left: 40px;">15.5 dB (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL1_M</td> <td style="padding-left: 40px;">HP093192</td> <td style="padding-left: 40px;">67 <dec></td> </tr> <tr> <td colspan="3" style="padding-top: 20px;"> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 40px;">HRH_Up_OL1_A</td> <td style="padding-left: 40px;">HP092192</td> <td style="padding-left: 40px;">8 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL2_M</td> <td style="padding-left: 40px;">HP095192</td> <td style="padding-left: 40px;">72 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL2_A</td> <td style="padding-left: 40px;">HP094192</td> <td style="padding-left: 40px;">8 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL3_M</td> <td style="padding-left: 40px;">HP097192</td> <td style="padding-left: 40px;">77 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL3_A</td> <td style="padding-left: 40px;">HP096192</td> <td style="padding-left: 40px;">8 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL4_M</td> <td style="padding-left: 40px;">HP099192</td> <td style="padding-left: 40px;">82 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL4_A</td> <td style="padding-left: 40px;">HP098192</td> <td style="padding-left: 40px;">8 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL5_M</td> <td style="padding-left: 40px;">HP101192</td> <td style="padding-left: 40px;">51 <dec> (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL5_A</td> <td style="padding-left: 40px;">HP100192</td> <td style="padding-left: 40px;">5 <dec> (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL6_M</td> <td style="padding-left: 40px;">HP103192</td> <td style="padding-left: 40px;">49 <dec> (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL6_A</td> <td style="padding-left: 40px;">HP102192</td> <td style="padding-left: 40px;">0 <dec> (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL7_M</td> <td style="padding-left: 40px;">HP104192</td> <td style="padding-left: 40px;">7 <dec></td> </tr> </table> </td> <td>HC028289</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H</td> <td></td> <td></td> </tr> </table>	HIFI_BB_ID	HP001197	E320001 <hex>	HRH_switch	HP091192	H (Def)	HRH_1U_ATT	HP105192	15.5 dB (Def)	HRH_1L_ATT	HP106192	15.5 dB (Def)	HRH_2U_ATT	HP107192	15.5 dB (Def)	HRH_2L_ATT	HP108192	15.5 dB (Def)	HRH_3U_ATT	HP109192	15.5 dB (Def)	HRH_3L_ATT	HP110192	15.5 dB (Def)	HRH_4U_ATT	HP111192	15.5 dB (Def)	HRH_4L_ATT	HP112192	15.5 dB (Def)	HRH_Up_OL1_M	HP093192	67 <dec>	<table style="width: 100%; border: none;"> <tr> <td style="padding-left: 40px;">HRH_Up_OL1_A</td> <td style="padding-left: 40px;">HP092192</td> <td style="padding-left: 40px;">8 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL2_M</td> <td style="padding-left: 40px;">HP095192</td> <td style="padding-left: 40px;">72 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL2_A</td> <td style="padding-left: 40px;">HP094192</td> <td style="padding-left: 40px;">8 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL3_M</td> <td style="padding-left: 40px;">HP097192</td> <td style="padding-left: 40px;">77 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL3_A</td> <td style="padding-left: 40px;">HP096192</td> <td style="padding-left: 40px;">8 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL4_M</td> <td style="padding-left: 40px;">HP099192</td> <td style="padding-left: 40px;">82 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL4_A</td> <td style="padding-left: 40px;">HP098192</td> <td style="padding-left: 40px;">8 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL5_M</td> <td style="padding-left: 40px;">HP101192</td> <td style="padding-left: 40px;">51 <dec> (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL5_A</td> <td style="padding-left: 40px;">HP100192</td> <td style="padding-left: 40px;">5 <dec> (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL6_M</td> <td style="padding-left: 40px;">HP103192</td> <td style="padding-left: 40px;">49 <dec> (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL6_A</td> <td style="padding-left: 40px;">HP102192</td> <td style="padding-left: 40px;">0 <dec> (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL7_M</td> <td style="padding-left: 40px;">HP104192</td> <td style="padding-left: 40px;">7 <dec></td> </tr> </table>			HRH_Up_OL1_A	HP092192	8 <dec>	HRH_Up_OL2_M	HP095192	72 <dec>	HRH_Up_OL2_A	HP094192	8 <dec>	HRH_Up_OL3_M	HP097192	77 <dec>	HRH_Up_OL3_A	HP096192	8 <dec>	HRH_Up_OL4_M	HP099192	82 <dec>	HRH_Up_OL4_A	HP098192	8 <dec>	HRH_Down_OL5_M	HP101192	51 <dec> (Def)	HRH_Down_OL5_A	HP100192	5 <dec> (Def)	HRH_Down_OL6_M	HP103192	49 <dec> (Def)	HRH_Down_OL6_A	HP102192	0 <dec> (Def)	HRH_Down_OL7_M	HP104192	7 <dec>	HC028289				Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H		
HIFI_BB_ID	HP001197	E320001 <hex>																																																																															
HRH_switch	HP091192	H (Def)																																																																															
HRH_1U_ATT	HP105192	15.5 dB (Def)																																																																															
HRH_1L_ATT	HP106192	15.5 dB (Def)																																																																															
HRH_2U_ATT	HP107192	15.5 dB (Def)																																																																															
HRH_2L_ATT	HP108192	15.5 dB (Def)																																																																															
HRH_3U_ATT	HP109192	15.5 dB (Def)																																																																															
HRH_3L_ATT	HP110192	15.5 dB (Def)																																																																															
HRH_4U_ATT	HP111192	15.5 dB (Def)																																																																															
HRH_4L_ATT	HP112192	15.5 dB (Def)																																																																															
HRH_Up_OL1_M	HP093192	67 <dec>																																																																															
<table style="width: 100%; border: none;"> <tr> <td style="padding-left: 40px;">HRH_Up_OL1_A</td> <td style="padding-left: 40px;">HP092192</td> <td style="padding-left: 40px;">8 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL2_M</td> <td style="padding-left: 40px;">HP095192</td> <td style="padding-left: 40px;">72 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL2_A</td> <td style="padding-left: 40px;">HP094192</td> <td style="padding-left: 40px;">8 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL3_M</td> <td style="padding-left: 40px;">HP097192</td> <td style="padding-left: 40px;">77 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL3_A</td> <td style="padding-left: 40px;">HP096192</td> <td style="padding-left: 40px;">8 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL4_M</td> <td style="padding-left: 40px;">HP099192</td> <td style="padding-left: 40px;">82 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Up_OL4_A</td> <td style="padding-left: 40px;">HP098192</td> <td style="padding-left: 40px;">8 <dec></td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL5_M</td> <td style="padding-left: 40px;">HP101192</td> <td style="padding-left: 40px;">51 <dec> (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL5_A</td> <td style="padding-left: 40px;">HP100192</td> <td style="padding-left: 40px;">5 <dec> (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL6_M</td> <td style="padding-left: 40px;">HP103192</td> <td style="padding-left: 40px;">49 <dec> (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL6_A</td> <td style="padding-left: 40px;">HP102192</td> <td style="padding-left: 40px;">0 <dec> (Def)</td> </tr> <tr> <td style="padding-left: 40px;">HRH_Down_OL7_M</td> <td style="padding-left: 40px;">HP104192</td> <td style="padding-left: 40px;">7 <dec></td> </tr> </table>			HRH_Up_OL1_A	HP092192	8 <dec>	HRH_Up_OL2_M	HP095192	72 <dec>	HRH_Up_OL2_A	HP094192	8 <dec>	HRH_Up_OL3_M	HP097192	77 <dec>	HRH_Up_OL3_A	HP096192	8 <dec>	HRH_Up_OL4_M	HP099192	82 <dec>	HRH_Up_OL4_A	HP098192	8 <dec>	HRH_Down_OL5_M	HP101192	51 <dec> (Def)	HRH_Down_OL5_A	HP100192	5 <dec> (Def)	HRH_Down_OL6_M	HP103192	49 <dec> (Def)	HRH_Down_OL6_A	HP102192	0 <dec> (Def)	HRH_Down_OL7_M	HP104192	7 <dec>	HC028289																																										
HRH_Up_OL1_A	HP092192	8 <dec>																																																																															
HRH_Up_OL2_M	HP095192	72 <dec>																																																																															
HRH_Up_OL2_A	HP094192	8 <dec>																																																																															
HRH_Up_OL3_M	HP097192	77 <dec>																																																																															
HRH_Up_OL3_A	HP096192	8 <dec>																																																																															
HRH_Up_OL4_M	HP099192	82 <dec>																																																																															
HRH_Up_OL4_A	HP098192	8 <dec>																																																																															
HRH_Down_OL5_M	HP101192	51 <dec> (Def)																																																																															
HRH_Down_OL5_A	HP100192	5 <dec> (Def)																																																																															
HRH_Down_OL6_M	HP103192	49 <dec> (Def)																																																																															
HRH_Down_OL6_A	HP102192	0 <dec> (Def)																																																																															
HRH_Down_OL7_M	HP104192	7 <dec>																																																																															
		Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H																																																																															

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																																																																					
	ET=+00.00.00 UT=+00.00.00	<p>HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo</p> <p>Command Parameter(s) :</p> <table> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>E320001 <hex></td></tr> <tr><td>HRV_switch</td><td>HP121192</td><td>V</td></tr> <tr><td>HRV_1U_ATT</td><td>HP135192</td><td>15.5 dB (Def)</td></tr> <tr><td>HRV_1L_ATT</td><td>HP136192</td><td>15.5 dB (Def)</td></tr> <tr><td>HRV_2U_ATT</td><td>HP137192</td><td>15.5 dB (Def)</td></tr> <tr><td>HRV_2L_ATT</td><td>HP138192</td><td>15.5 dB (Def)</td></tr> <tr><td>HRV_3U_ATT</td><td>HP139192</td><td>15.5 dB (Def)</td></tr> <tr><td>HRV_3L_ATT</td><td>HP140192</td><td>15.5 dB (Def)</td></tr> <tr><td>HRV_4U_ATT</td><td>HP141192</td><td>15.5 dB (Def)</td></tr> <tr><td>HRV_4L_ATT</td><td>HP142192</td><td>15.5 dB (Def)</td></tr> <tr><td>HRV_Up_OL1_M</td><td>HP123192</td><td>67 <dec></td></tr> <tr><td>HRV_Up_OL1_A</td><td>HP122192</td><td>8 <dec></td></tr> <tr><td>HRV_Up_OL2_M</td><td>HP125192</td><td>72 <dec></td></tr> <tr><td>HRV_Up_OL2_A</td><td>HP124192</td><td>8 <dec></td></tr> <tr><td>HRV_Up_OL3_M</td><td>HP127192</td><td>77 <dec></td></tr> <tr><td>HRV_Up_OL3_A</td><td>HP126192</td><td>8 <dec></td></tr> <tr><td>HRV_Up_OL4_M</td><td>HP129192</td><td>82 <dec></td></tr> <tr><td>HRV_Up_OL4_A</td><td>HP128192</td><td>8 <dec></td></tr> <tr><td>HRV_Down_OL5_M</td><td>HP131192</td><td>51 <dec> (Def)</td></tr> <tr><td>HRV_Down_OL5_A</td><td>HP130192</td><td>5 <dec> (Def)</td></tr> <tr><td>HRV_Down_OL6_M</td><td>HP133192</td><td>49 <dec> (Def)</td></tr> <tr><td>HRV_Down_OL6_A</td><td>HP132192</td><td>0 <dec> (Def)</td></tr> <tr><td>HRV_Down_OL7_M</td><td>HP134192</td><td>7 <dec></td></tr> </table> <p>Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V</p>	HIFI_BB_ID	HP001197	E320001 <hex>	HRV_switch	HP121192	V	HRV_1U_ATT	HP135192	15.5 dB (Def)	HRV_1L_ATT	HP136192	15.5 dB (Def)	HRV_2U_ATT	HP137192	15.5 dB (Def)	HRV_2L_ATT	HP138192	15.5 dB (Def)	HRV_3U_ATT	HP139192	15.5 dB (Def)	HRV_3L_ATT	HP140192	15.5 dB (Def)	HRV_4U_ATT	HP141192	15.5 dB (Def)	HRV_4L_ATT	HP142192	15.5 dB (Def)	HRV_Up_OL1_M	HP123192	67 <dec>	HRV_Up_OL1_A	HP122192	8 <dec>	HRV_Up_OL2_M	HP125192	72 <dec>	HRV_Up_OL2_A	HP124192	8 <dec>	HRV_Up_OL3_M	HP127192	77 <dec>	HRV_Up_OL3_A	HP126192	8 <dec>	HRV_Up_OL4_M	HP129192	82 <dec>	HRV_Up_OL4_A	HP128192	8 <dec>	HRV_Down_OL5_M	HP131192	51 <dec> (Def)	HRV_Down_OL5_A	HP130192	5 <dec> (Def)	HRV_Down_OL6_M	HP133192	49 <dec> (Def)	HRV_Down_OL6_A	HP132192	0 <dec> (Def)	HRV_Down_OL7_M	HP134192	7 <dec>	HC030289	
HIFI_BB_ID	HP001197	E320001 <hex>																																																																							
HRV_switch	HP121192	V																																																																							
HRV_1U_ATT	HP135192	15.5 dB (Def)																																																																							
HRV_1L_ATT	HP136192	15.5 dB (Def)																																																																							
HRV_2U_ATT	HP137192	15.5 dB (Def)																																																																							
HRV_2L_ATT	HP138192	15.5 dB (Def)																																																																							
HRV_3U_ATT	HP139192	15.5 dB (Def)																																																																							
HRV_3L_ATT	HP140192	15.5 dB (Def)																																																																							
HRV_4U_ATT	HP141192	15.5 dB (Def)																																																																							
HRV_4L_ATT	HP142192	15.5 dB (Def)																																																																							
HRV_Up_OL1_M	HP123192	67 <dec>																																																																							
HRV_Up_OL1_A	HP122192	8 <dec>																																																																							
HRV_Up_OL2_M	HP125192	72 <dec>																																																																							
HRV_Up_OL2_A	HP124192	8 <dec>																																																																							
HRV_Up_OL3_M	HP127192	77 <dec>																																																																							
HRV_Up_OL3_A	HP126192	8 <dec>																																																																							
HRV_Up_OL4_M	HP129192	82 <dec>																																																																							
HRV_Up_OL4_A	HP128192	8 <dec>																																																																							
HRV_Down_OL5_M	HP131192	51 <dec> (Def)																																																																							
HRV_Down_OL5_A	HP130192	5 <dec> (Def)																																																																							
HRV_Down_OL6_M	HP133192	49 <dec> (Def)																																																																							
HRV_Down_OL6_A	HP132192	0 <dec> (Def)																																																																							
HRV_Down_OL7_M	HP134192	7 <dec>																																																																							
	ET=+00.00.01 UT=+00.00.01	<p>HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks</p> <p>Command Parameter(s) :</p> <table> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>E320001 <hex></td></tr> <tr><td>HRH_Block_1</td><td>HP113192</td><td>corr_wide</td></tr> <tr><td>HRH_Block_2</td><td>HP114192</td><td>corr_wide</td></tr> <tr><td>HRH_Block_3</td><td>HP115192</td><td>corr_wide</td></tr> <tr><td>HRH_Block_4</td><td>HP116192</td><td>corr_wide</td></tr> <tr><td>HRH_Block_5</td><td>HP117192</td><td>corr_wide</td></tr> <tr><td>HRH_Block_6</td><td>HP118192</td><td>corr_wide</td></tr> <tr><td>HRH_Block_7</td><td>HP119192</td><td>corr_wide</td></tr> <tr><td>HRH_Block_8</td><td>HP120192</td><td>corr_wide</td></tr> </table> <p>Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H</p>	HIFI_BB_ID	HP001197	E320001 <hex>	HRH_Block_1	HP113192	corr_wide	HRH_Block_2	HP114192	corr_wide	HRH_Block_3	HP115192	corr_wide	HRH_Block_4	HP116192	corr_wide	HRH_Block_5	HP117192	corr_wide	HRH_Block_6	HP118192	corr_wide	HRH_Block_7	HP119192	corr_wide	HRH_Block_8	HP120192	corr_wide	HC029289																																											
HIFI_BB_ID	HP001197	E320001 <hex>																																																																							
HRH_Block_1	HP113192	corr_wide																																																																							
HRH_Block_2	HP114192	corr_wide																																																																							
HRH_Block_3	HP115192	corr_wide																																																																							
HRH_Block_4	HP116192	corr_wide																																																																							
HRH_Block_5	HP117192	corr_wide																																																																							
HRH_Block_6	HP118192	corr_wide																																																																							
HRH_Block_7	HP119192	corr_wide																																																																							
HRH_Block_8	HP120192	corr_wide																																																																							

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 E320001 <hex> corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide	
	ET=+00.00.01 UT=+00.00.01	HIFI_Tune_HRS HIFI_Tune_HRS Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Find optimal setting for HRS attenuators	HC143289 E110001 <hex>	
	ET=+00.00.05 UT=+00.00.05	HIFI_config_spectroscopy HIFI_config_spectroscopy Command Parameter(s) : HIFI_BB_ID HP001197 HIF_N_WBS_START HP021197 HIF_R_HRS HP022197 HIF_N_WBS_INTEGR HP023197 HIF_N_HRS_INTEGR HP024197 HIF_DEL_HRS HP025197 HIF_DEL_WBS HP026197 HIF_T_ACC_WBS HP027197 HIF_T_ACC_HRS HP028197 HIF_WBSH_OFFSET1 HP029197 HIF_WBSH_WIDTH1 HP030197 HIF_WBSH_OFFSET2 HP031197 HIF_WBSH_WIDTH2 HP032197 HIF_WBSH_OFFSET3 HP033197 HIF_WBSH_WIDTH3 HP034197 HIF_WBSH_OFFSET4 HP035197 HIF_WBSH_WIDTH4 HP036197 HIF_WBSV_OFFSET1 HP037197 HIF_WBSV_WIDTH1 HP038197 HIF_WBSV_OFFSET2 HP039197 HIF_WBSV_WIDTH2 HP040197 HIF_WBSV_OFFSET3 HP041197 HIF_WBSV_WIDTH3 HP042197 HIF_WBSV_OFFSET4 HP043197 HIF_WBSV_WIDTH4 HP044197 HIF_HRS_RSHIFT HP045197	HC150289 0 <dec> (Def) 4 <dec> 1 <dec> (Def) 2 <dec> 2 <dec> 2 <dec> 4 <dec> 945 <dec> 929 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def)	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HIF_WBS_RSHIFT HP046197 HIF_HRSH_SEL HP047197 HIF_HRSV_SEL HP048197 HIF_WBS_packing HP049197 Subsch. ID : 70 Det. descr. : Specify parameters for next spectroscopy measurement	2 <dec> 255 <dec> (Def) 255 <dec> (Def) 16_bits_format	
	ET=+00.00.00 UT=+00.00.00	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 236322817 <dec>	
7		HRS Functional Test 2 (square_s)		Next Step: 8
	ET=+00.00.07 UT=+00.00.07	HIFI_config_spectroscopy HIFI_config_spectroscopy Command Parameter(s) : HIFI_BB_ID HP001197 HIF_N_WBS_START HP021197 HIF_R_HRS HP022197 HIF_N_WBS_INTEGR HP023197 HIF_N_HRS_INTEGR HP024197 HIF_DEL_HRS HP025197 HIF_DEL_WBS HP026197 HIF_T_ACC_WBS HP027197 HIF_T_ACC_HRS HP028197 HIF_WBSH_OFFSET1 HP029197 HIF_WBSH_WIDTH1 HP030197 HIF_WBSH_OFFSET2 HP031197 HIF_WBSH_WIDTH2 HP032197 HIF_WBSH_OFFSET3 HP033197 HIF_WBSH_WIDTH3 HP034197 HIF_WBSH_OFFSET4 HP035197 HIF_WBSH_WIDTH4 HP036197 HIF_WBSV_OFFSET1 HP037197 HIF_WBSV_WIDTH1 HP038197 HIF_WBSV_OFFSET2 HP039197 HIF_WBSV_WIDTH2 HP040197 HIF_WBSV_OFFSET3 HP041197 HIF_WBSV_WIDTH3 HP042197 HIF_WBSV_OFFSET4 HP043197 HIF_WBSV_WIDTH4 HP044197 HIF_HRS_RSHIFT HP045197	HC150289 237305857 <dec> 4 <dec> 1 <dec> (Def) 2 <dec> 2 <dec> 2 <dec> 4 <dec> 945 <dec> 929 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def)	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HIF_WBS_RSHIFT HP046197 HIF_HRSH_SEL HP047197 HIF_HRSV_SEL HP048197 HIF_WBS_packing HP049197 <i>Subsch. ID : 70</i> Det. descr. : Specify parameters for next spectroscopy measurement	2 <dec> 255 <dec> (Def) 255 <dec> (Def) 16_bits_format	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 <i>Subsch. ID : 70</i> Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 237305857 <dec> H (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 237305857 <dec> V 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



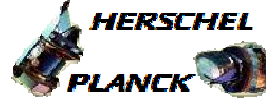
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 237305857 <dec> square_s_ultra square_s_ultra square_s_ultra square_s_ultra square_s_ultra square_s_ultra square_s_ultra square_s_ultra	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 237305857 <dec> square_s_ultra square_s_ultra square_s_ultra square_s_ultra square_s_ultra square_s_ultra square_s_ultra square_s_ultra	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237305857 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



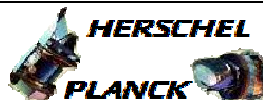
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 237305857 <dec> square_s_wide square_s_wide square_s_wide square_s_wide square_s_wide square_s_wide square_s_wide square_s_wide square_s_wide	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 237305857 <dec> square_s_wide square_s_wide square_s_wide square_s_wide square_s_wide square_s_wide square_s_wide square_s_wide square_s_wide	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237305857 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70	HC029289 237305857 <dec> square_s_hilonom low square_s_low low_nominal square_s_low_nom low square_s_low high_nominal_low	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																											
		Det. descr. : Configure the autocorrelation blocks of HRS-H																													
	ET=+00.00.00 UT=+00.00.00	<p>HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>237305857 <dec></td></tr> <tr><td>HRV_Block_1</td><td>HP143192</td><td>square_s_hilonom</td></tr> <tr><td>HRV_Block_2</td><td>HP144192</td><td>low</td></tr> <tr><td>HRV_Block_3</td><td>HP145192</td><td>square_s_low</td></tr> <tr><td>HRV_Block_4</td><td>HP146192</td><td>low_nominal</td></tr> <tr><td>HRV_Block_5</td><td>HP147192</td><td>square_s_low_nom</td></tr> <tr><td>HRV_Block_6</td><td>HP148192</td><td>low</td></tr> <tr><td>HRV_Block_7</td><td>HP149192</td><td>square_s_low</td></tr> <tr><td>HRV_Block_8</td><td>HP150192</td><td>high_nominal_low</td></tr> </table> <p>Subsch. ID : 70</p> <p>Det. descr. : Configure the autocorrelation blocks of HRS-V</p>	HIFI_BB_ID	HP001197	237305857 <dec>	HRV_Block_1	HP143192	square_s_hilonom	HRV_Block_2	HP144192	low	HRV_Block_3	HP145192	square_s_low	HRV_Block_4	HP146192	low_nominal	HRV_Block_5	HP147192	square_s_low_nom	HRV_Block_6	HP148192	low	HRV_Block_7	HP149192	square_s_low	HRV_Block_8	HP150192	high_nominal_low	HC031289	
HIFI_BB_ID	HP001197	237305857 <dec>																													
HRV_Block_1	HP143192	square_s_hilonom																													
HRV_Block_2	HP144192	low																													
HRV_Block_3	HP145192	square_s_low																													
HRV_Block_4	HP146192	low_nominal																													
HRV_Block_5	HP147192	square_s_low_nom																													
HRV_Block_6	HP148192	low																													
HRV_Block_7	HP149192	square_s_low																													
HRV_Block_8	HP150192	high_nominal_low																													
	ET=+00.00.01 UT=+00.00.01	<p>HIFI_Spectr_total_power HIFI_Spectr_total_power</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>237305857 <dec></td></tr> </table> <p>Subsch. ID : 70</p> <p>Det. descr. : Start total-power spectroscopy measurement</p>	HIFI_BB_ID	HP001197	237305857 <dec>	HC151289																									
HIFI_BB_ID	HP001197	237305857 <dec>																													
	ET=+00.00.07 UT=+00.00.07	<p>HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>237305857 <dec></td></tr> <tr><td>HRH_Block_1</td><td>HP113192</td><td>square_s_hilonom</td></tr> <tr><td>HRH_Block_2</td><td>HP114192</td><td>high_nominal</td></tr> <tr><td>HRH_Block_3</td><td>HP115192</td><td>high_nominal</td></tr> <tr><td>HRH_Block_4</td><td>HP116192</td><td>low_nominal</td></tr> <tr><td>HRH_Block_5</td><td>HP117192</td><td>square_s_low_nom</td></tr> <tr><td>HRH_Block_6</td><td>HP118192</td><td>high_nominal</td></tr> <tr><td>HRH_Block_7</td><td>HP119192</td><td>high_nominal</td></tr> <tr><td>HRH_Block_8</td><td>HP120192</td><td>high_nominal_low</td></tr> </table> <p>Subsch. ID : 70</p> <p>Det. descr. : Configure the autocorrelation blocks of HRS-H</p>	HIFI_BB_ID	HP001197	237305857 <dec>	HRH_Block_1	HP113192	square_s_hilonom	HRH_Block_2	HP114192	high_nominal	HRH_Block_3	HP115192	high_nominal	HRH_Block_4	HP116192	low_nominal	HRH_Block_5	HP117192	square_s_low_nom	HRH_Block_6	HP118192	high_nominal	HRH_Block_7	HP119192	high_nominal	HRH_Block_8	HP120192	high_nominal_low	HC029289	
HIFI_BB_ID	HP001197	237305857 <dec>																													
HRH_Block_1	HP113192	square_s_hilonom																													
HRH_Block_2	HP114192	high_nominal																													
HRH_Block_3	HP115192	high_nominal																													
HRH_Block_4	HP116192	low_nominal																													
HRH_Block_5	HP117192	square_s_low_nom																													
HRH_Block_6	HP118192	high_nominal																													
HRH_Block_7	HP119192	high_nominal																													
HRH_Block_8	HP120192	high_nominal_low																													

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 237305857 <dec> square_s_hilonom high_nominal high_nominal low_nominal square_s_low_nom high_nominal high_nominal high_nominal_low	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237305857 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 237305857 <dec> square_s_hilonom high_nominal high_nominal high high high_nominal high_nominal high_nominal_low	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70	HC031289 237305857 <dec> square_s_hilonom high_nominal high_nominal high high high_nominal high_nominal high_nominal_low	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Det. descr. : Configure the autocorrelation blocks of HRS-V		
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237305857 <dec>	
8		HRS Functional Test 2 (square_m)		Next Step: 9
	ET=+00.00.07 UT=+00.00.07	HIFI_config_spectroscopy HIFI_config_spectroscopy Command Parameter(s) : HIFI_BB_ID HP001197 HIF_N_WBS_START HP021197 HIF_R_HRS HP022197 HIF_N_WBS_INTEGR HP023197 HIF_N_HRS_INTEGR HP024197 HIF_DEL_HRS HP025197 HIF_DEL_WBS HP026197 HIF_T_ACC_WBS HP027197 HIF_T_ACC_HRS HP028197 HIF_WBSH_OFFSET1 HP029197 HIF_WBSH_WIDTH1 HP030197 HIF_WBSH_OFFSET2 HP031197 HIF_WBSH_WIDTH2 HP032197 HIF_WBSH_OFFSET3 HP033197 HIF_WBSH_WIDTH3 HP034197 HIF_WBSH_OFFSET4 HP035197 HIF_WBSH_WIDTH4 HP036197 HIF_WBSV_OFFSET1 HP037197 HIF_WBSV_WIDTH1 HP038197 HIF_WBSV_OFFSET2 HP039197 HIF_WBSV_WIDTH2 HP040197 HIF_WBSV_OFFSET3 HP041197 HIF_WBSV_WIDTH3 HP042197 HIF_WBSV_OFFSET4 HP043197 HIF_WBSV_WIDTH4 HP044197 HIF_HRS_RSHIFT HP045197 HIF_WBS_RSHIFT HP046197 HIF_HRSH_SEL HP047197 HIF_HRSV_SEL HP048197 HIF_WBS_packing HP049197 Subsch. ID : 70 Det. descr. : Specify parameters for next spectroscopy measurement	HC150289 E260001 <hex> 4 <dec> 1 <dec> (Def) 2 <dec> 2 <dec> 2 <dec> 4 <dec> 4 <dec> 945 <dec> 929 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 2 <dec> 255 <dec> (Def) 255 <dec> (Def) 16_bits_format	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 237371393 <dec> H (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 237371393 <dec> V 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 237371393 <dec> square_m_ultra square_m_ultra square_m_ultra square_m_ultra square_m_ultra square_m_ultra square_m_ultra square_m_ultra	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 237371393 <dec> square_m_ultra square_m_ultra square_m_ultra square_m_ultra square_m_ultra square_m_ultra square_m_ultra square_m_ultra	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237371393 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



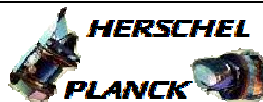
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 237371393 <dec> square_m_wide square_m_wide square_m_wide square_m_wide square_m_wide square_m_wide square_m_wide square_m_wide square_m_wide	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 237371393 <dec> square_m_wide square_m_wide square_m_wide square_m_wide square_m_wide square_m_wide square_m_wide square_m_wide square_m_wide	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237371393 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70	HC029289 237371393 <dec> square_m_hilonom low square_m_low low_nominal square_m_low_nom low square_m_low high_nominal_low	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																											
		Det. descr. : Configure the autocorrelation blocks of HRS-H																													
	ET=+00.00.00 UT=+00.00.00	<p>HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>237371393 <dec></td></tr> <tr><td>HRV_Block_1</td><td>HP143192</td><td>square_m_hilonom</td></tr> <tr><td>HRV_Block_2</td><td>HP144192</td><td>low</td></tr> <tr><td>HRV_Block_3</td><td>HP145192</td><td>square_m_low</td></tr> <tr><td>HRV_Block_4</td><td>HP146192</td><td>low_nominal</td></tr> <tr><td>HRV_Block_5</td><td>HP147192</td><td>square_m_low_nom</td></tr> <tr><td>HRV_Block_6</td><td>HP148192</td><td>low</td></tr> <tr><td>HRV_Block_7</td><td>HP149192</td><td>square_m_low</td></tr> <tr><td>HRV_Block_8</td><td>HP150192</td><td>high_nominal_low</td></tr> </table> <p>Subsch. ID : 70</p> <p>Det. descr. : Configure the autocorrelation blocks of HRS-V</p>	HIFI_BB_ID	HP001197	237371393 <dec>	HRV_Block_1	HP143192	square_m_hilonom	HRV_Block_2	HP144192	low	HRV_Block_3	HP145192	square_m_low	HRV_Block_4	HP146192	low_nominal	HRV_Block_5	HP147192	square_m_low_nom	HRV_Block_6	HP148192	low	HRV_Block_7	HP149192	square_m_low	HRV_Block_8	HP150192	high_nominal_low	HC031289	
HIFI_BB_ID	HP001197	237371393 <dec>																													
HRV_Block_1	HP143192	square_m_hilonom																													
HRV_Block_2	HP144192	low																													
HRV_Block_3	HP145192	square_m_low																													
HRV_Block_4	HP146192	low_nominal																													
HRV_Block_5	HP147192	square_m_low_nom																													
HRV_Block_6	HP148192	low																													
HRV_Block_7	HP149192	square_m_low																													
HRV_Block_8	HP150192	high_nominal_low																													
	ET=+00.00.01 UT=+00.00.01	<p>HIFI_Spectr_total_power HIFI_Spectr_total_power</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>237371393 <dec></td></tr> </table> <p>Subsch. ID : 70</p> <p>Det. descr. : Start total-power spectroscopy measurement</p>	HIFI_BB_ID	HP001197	237371393 <dec>	HC151289																									
HIFI_BB_ID	HP001197	237371393 <dec>																													
	ET=+00.00.07 UT=+00.00.07	<p>HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>237371393 <dec></td></tr> <tr><td>HRH_Block_1</td><td>HP113192</td><td>square_m_hilonom</td></tr> <tr><td>HRH_Block_2</td><td>HP114192</td><td>high_nominal</td></tr> <tr><td>HRH_Block_3</td><td>HP115192</td><td>high_nominal</td></tr> <tr><td>HRH_Block_4</td><td>HP116192</td><td>low_nominal</td></tr> <tr><td>HRH_Block_5</td><td>HP117192</td><td>square_m_low_nom</td></tr> <tr><td>HRH_Block_6</td><td>HP118192</td><td>high_nominal</td></tr> <tr><td>HRH_Block_7</td><td>HP119192</td><td>high_nominal</td></tr> <tr><td>HRH_Block_8</td><td>HP120192</td><td>high_nominal_low</td></tr> </table> <p>Subsch. ID : 70</p> <p>Det. descr. : Configure the autocorrelation blocks of HRS-H</p>	HIFI_BB_ID	HP001197	237371393 <dec>	HRH_Block_1	HP113192	square_m_hilonom	HRH_Block_2	HP114192	high_nominal	HRH_Block_3	HP115192	high_nominal	HRH_Block_4	HP116192	low_nominal	HRH_Block_5	HP117192	square_m_low_nom	HRH_Block_6	HP118192	high_nominal	HRH_Block_7	HP119192	high_nominal	HRH_Block_8	HP120192	high_nominal_low	HC029289	
HIFI_BB_ID	HP001197	237371393 <dec>																													
HRH_Block_1	HP113192	square_m_hilonom																													
HRH_Block_2	HP114192	high_nominal																													
HRH_Block_3	HP115192	high_nominal																													
HRH_Block_4	HP116192	low_nominal																													
HRH_Block_5	HP117192	square_m_low_nom																													
HRH_Block_6	HP118192	high_nominal																													
HRH_Block_7	HP119192	high_nominal																													
HRH_Block_8	HP120192	high_nominal_low																													

HRS Functional Test
File: H_COP_HIF_NFHR.xls
Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 237371393 <dec> square_m_hilonom high_nominal high_nominal low_nominal square_m_low_nom high_nominal high_nominal high_nominal_low	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237371393 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 237371393 <dec> square_m_hilonom high_nominal high_nominal high high high_nominal high_nominal high_nominal_low	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70	HC031289 237371393 <dec> square_m_hilonom high_nominal high_nominal high high high_nominal high_nominal high_nominal_low	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Det. descr. : Configure the autocorrelation blocks of HRS-V		
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237371393 <dec>	
9		HRS Functional Test 2 (sine)		Next Step: 10
	ET=+00.00.07 UT=+00.00.07	HIFI_config_spectroscopy HIFI_config_spectroscopy Command Parameter(s) : HIFI_BB_ID HP001197 HIF_N_WBS_START HP021197 HIF_R_HRS HP022197 HIF_N_WBS_INTEGR HP023197 HIF_N_HRS_INTEGR HP024197 HIF_DEL_HRS HP025197 HIF_DEL_WBS HP026197 HIF_T_ACC_WBS HP027197 HIF_T_ACC_HRS HP028197 HIF_WBSH_OFFSET1 HP029197 HIF_WBSH_WIDTH1 HP030197 HIF_WBSH_OFFSET2 HP031197 HIF_WBSH_WIDTH2 HP032197 HIF_WBSH_OFFSET3 HP033197 HIF_WBSH_WIDTH3 HP034197 HIF_WBSH_OFFSET4 HP035197 HIF_WBSH_WIDTH4 HP036197 HIF_WBSV_OFFSET1 HP037197 HIF_WBSV_WIDTH1 HP038197 HIF_WBSV_OFFSET2 HP039197 HIF_WBSV_WIDTH2 HP040197 HIF_WBSV_OFFSET3 HP041197 HIF_WBSV_WIDTH3 HP042197 HIF_WBSV_OFFSET4 HP043197 HIF_WBSV_WIDTH4 HP044197 HIF_HRS_RSHIFT HP045197 HIF_WBS_RSHIFT HP046197 HIF_HRSH_SEL HP047197 HIF_HRSV_SEL HP048197 HIF_WBS_packing HP049197 Subsch. ID : 70 Det. descr. : Specify parameters for next spectroscopy measurement	HC150289 E240001 <hex> 4 <dec> 1 <dec> (Def) 2 <dec> 2 <dec> 2 <dec> 4 <dec> 4 <dec> 945 <dec> 929 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 2 <dec> 255 <dec> (Def) 255 <dec> (Def) 16_bits_format	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



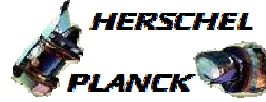
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 237240321 <dec> H (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 237240321 <dec> V 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 237240321 <dec> sine_ultra (Def) sine_ultra (Def) sine_ultra (Def) sine_ultra (Def) sine_ultra (Def) sine_ultra (Def) sine_ultra (Def) sine_ultra (Def)	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																											
	ET=+00.00.00 UT=+00.00.00	<p>HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>237240321 <dec></td></tr> <tr><td>HRV_Block_1</td><td>HP143192</td><td>sine_ultra (Def)</td></tr> <tr><td>HRV_Block_2</td><td>HP144192</td><td>sine_ultra (Def)</td></tr> <tr><td>HRV_Block_3</td><td>HP145192</td><td>sine_ultra (Def)</td></tr> <tr><td>HRV_Block_4</td><td>HP146192</td><td>sine_ultra (Def)</td></tr> <tr><td>HRV_Block_5</td><td>HP147192</td><td>sine_ultra (Def)</td></tr> <tr><td>HRV_Block_6</td><td>HP148192</td><td>sine_ultra (Def)</td></tr> <tr><td>HRV_Block_7</td><td>HP149192</td><td>sine_ultra (Def)</td></tr> <tr><td>HRV_Block_8</td><td>HP150192</td><td>sine_ultra (Def)</td></tr> </table> <p>Subsch. ID : 70</p> <p>Det. descr. : Configure the autocorrelation blocks of HRS-V</p>	HIFI_BB_ID	HP001197	237240321 <dec>	HRV_Block_1	HP143192	sine_ultra (Def)	HRV_Block_2	HP144192	sine_ultra (Def)	HRV_Block_3	HP145192	sine_ultra (Def)	HRV_Block_4	HP146192	sine_ultra (Def)	HRV_Block_5	HP147192	sine_ultra (Def)	HRV_Block_6	HP148192	sine_ultra (Def)	HRV_Block_7	HP149192	sine_ultra (Def)	HRV_Block_8	HP150192	sine_ultra (Def)	HC031289	
HIFI_BB_ID	HP001197	237240321 <dec>																													
HRV_Block_1	HP143192	sine_ultra (Def)																													
HRV_Block_2	HP144192	sine_ultra (Def)																													
HRV_Block_3	HP145192	sine_ultra (Def)																													
HRV_Block_4	HP146192	sine_ultra (Def)																													
HRV_Block_5	HP147192	sine_ultra (Def)																													
HRV_Block_6	HP148192	sine_ultra (Def)																													
HRV_Block_7	HP149192	sine_ultra (Def)																													
HRV_Block_8	HP150192	sine_ultra (Def)																													
	ET=+00.00.01 UT=+00.00.01	<p>HIFI_Spectr_total_power HIFI_Spectr_total_power</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>237240321 <dec></td></tr> </table> <p>Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement</p>	HIFI_BB_ID	HP001197	237240321 <dec>	HC151289																									
HIFI_BB_ID	HP001197	237240321 <dec>																													
	ET=+00.00.07 UT=+00.00.07	<p>HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>237240321 <dec></td></tr> <tr><td>HRH_Block_1</td><td>HP113192</td><td>sine_wide</td></tr> <tr><td>HRH_Block_2</td><td>HP114192</td><td>sine_wide</td></tr> <tr><td>HRH_Block_3</td><td>HP115192</td><td>sine_wide</td></tr> <tr><td>HRH_Block_4</td><td>HP116192</td><td>sine_wide</td></tr> <tr><td>HRH_Block_5</td><td>HP117192</td><td>sine_wide</td></tr> <tr><td>HRH_Block_6</td><td>HP118192</td><td>sine_wide</td></tr> <tr><td>HRH_Block_7</td><td>HP119192</td><td>sine_wide</td></tr> <tr><td>HRH_Block_8</td><td>HP120192</td><td>sine_wide</td></tr> </table> <p>Subsch. ID : 70</p> <p>Det. descr. : Configure the autocorrelation blocks of HRS-H</p>	HIFI_BB_ID	HP001197	237240321 <dec>	HRH_Block_1	HP113192	sine_wide	HRH_Block_2	HP114192	sine_wide	HRH_Block_3	HP115192	sine_wide	HRH_Block_4	HP116192	sine_wide	HRH_Block_5	HP117192	sine_wide	HRH_Block_6	HP118192	sine_wide	HRH_Block_7	HP119192	sine_wide	HRH_Block_8	HP120192	sine_wide	HC029289	
HIFI_BB_ID	HP001197	237240321 <dec>																													
HRH_Block_1	HP113192	sine_wide																													
HRH_Block_2	HP114192	sine_wide																													
HRH_Block_3	HP115192	sine_wide																													
HRH_Block_4	HP116192	sine_wide																													
HRH_Block_5	HP117192	sine_wide																													
HRH_Block_6	HP118192	sine_wide																													
HRH_Block_7	HP119192	sine_wide																													
HRH_Block_8	HP120192	sine_wide																													

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 237240321 <dec> sine_wide sine_wide sine_wide sine_wide sine_wide sine_wide sine_wide sine_wide	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237240321 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 237240321 <dec> sine_hilonom low sine_low low_nominal sine_low_nom low sine_low high_nominal_low	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70	HC031289 237240321 <dec> sine_hilonom low sine_low low_nominal sine_low_nom low sine_low high_nominal_low	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Det. descr. : Configure the autocorrelation blocks of HRS-V		
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237240321 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 237240321 <dec> sine_hilonom high_nominal high_nominal low_nominal sine_low_nom high_nominal high_nominal high_nominal_low	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 237240321 <dec> sine_hilonom high_nominal high_nominal low_nominal sine_low_nom high_nominal high_nominal high_nominal_low	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237240321 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 237240321 <dec> sine_hilonom high_nominal high_nominal high high high_nominal high_nominal high_nominal_low	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 237240321 <dec> sine_hilonom high_nominal high_nominal high high high_nominal high_nominal high_nominal_low	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237240321 <dec>	
10		HRS Functional Test 2 (correlation)		Next Step: 11

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 E280001 <hex> H (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 237502465 <dec> V 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Tune_HRS Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Find optimal setting for HRS attenuators	HIFI_Tune_HRS HC143289 235995138 <dec>	
	ET=+00.00.05 UT=+00.00.05	HIFI_config_spectroscopy Command Parameter(s) : HIFI_BB_ID HP001197 HIF_N_WBS_START HP021197 HIF_R_HRS HP022197 HIF_N_WBS_INTEGR HP023197 HIF_N_HRS_INTEGR HP024197 HIF_DEL_HRS HP025197 HIF_DEL_WBS HP026197 HIF_T_ACC_WBS HP027197 HIF_T_ACC_HRS HP028197 HIF_WBSH_OFFSET1 HP029197 HIF_WBSH_WIDTH1 HP030197 HIF_WBSH_OFFSET2 HP031197 HIF_WBSH_WIDTH2 HP032197 HIF_WBSH_OFFSET3 HP033197 HIF_WBSH_WIDTH3 HP034197 HIF_WBSH_OFFSET4 HP035197 HIF_WBSH_WIDTH4 HP036197 HIF_WBSV_OFFSET1 HP037197 HIF_WBSV_WIDTH1 HP038197 HIF_WBSV_OFFSET2 HP039197 HIF_WBSV_WIDTH2 HP040197 HIF_WBSV_OFFSET3 HP041197 HIF_WBSV_WIDTH3 HP042197 HIF_WBSV_OFFSET4 HP043197 HIF_WBSV_WIDTH4 HP044197 HIF_HRS_RSHIFT HP045197	HIFI_config_spectroscopy HC150289 237436929 <dec> 4 <dec> 1 <dec> (Def) 2 <dec> 2 <dec> 2 <dec> 4 <dec> 945 <dec> 929 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def)	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



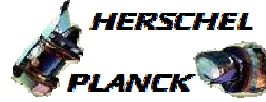
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HIF_WBS_RSHIFT HP046197 HIF_HRSH_SEL HP047197 HIF_HRSV_SEL HP048197 HIF_WBS_packing HP049197 <i>Subsch. ID : 70</i> Det. descr. : Specify parameters for next spectroscopy measurement	2 <dec> 255 <dec> (Def) 255 <dec> (Def) 16_bits_format	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 <i>Subsch. ID : 70</i> Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 237436929 <dec> corr_ultra corr_ultra corr_ultra corr_ultra corr_ultra corr_ultra corr_ultra corr_ultra	
	ET=+00.00.01 UT=+00.00.01	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 <i>Subsch. ID : 70</i> Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 237436929 <dec> corr_ultra corr_ultra corr_ultra corr_ultra corr_ultra corr_ultra corr_ultra corr_ultra	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Start total-power spectroscopy measurement	HC151289 237436929 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 237436929 <dec> corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 237436929 <dec> corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237436929 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70	HC029289 237436929 <dec> corr_hilonom low corr_low low_nominal corr_low_nom low corr_low high_nominal_low	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																											
		Det. descr. : Configure the autocorrelation blocks of HRS-H																													
	ET=+00.00.00 UT=+00.00.00	<p>HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks</p> <p>Command Parameter(s) :</p> <table> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>237436929 <dec></td></tr> <tr><td>HRV_Block_1</td><td>HP143192</td><td>corr_hilonom</td></tr> <tr><td>HRV_Block_2</td><td>HP144192</td><td>low</td></tr> <tr><td>HRV_Block_3</td><td>HP145192</td><td>corr_low</td></tr> <tr><td>HRV_Block_4</td><td>HP146192</td><td>low_nominal</td></tr> <tr><td>HRV_Block_5</td><td>HP147192</td><td>corr_low_nom</td></tr> <tr><td>HRV_Block_6</td><td>HP148192</td><td>low</td></tr> <tr><td>HRV_Block_7</td><td>HP149192</td><td>corr_low</td></tr> <tr><td>HRV_Block_8</td><td>HP150192</td><td>high_nominal_low</td></tr> </table> <p>Subsch. ID : 70</p> <p>Det. descr. : Configure the autocorrelation blocks of HRS-V</p>	HIFI_BB_ID	HP001197	237436929 <dec>	HRV_Block_1	HP143192	corr_hilonom	HRV_Block_2	HP144192	low	HRV_Block_3	HP145192	corr_low	HRV_Block_4	HP146192	low_nominal	HRV_Block_5	HP147192	corr_low_nom	HRV_Block_6	HP148192	low	HRV_Block_7	HP149192	corr_low	HRV_Block_8	HP150192	high_nominal_low	HC031289	
HIFI_BB_ID	HP001197	237436929 <dec>																													
HRV_Block_1	HP143192	corr_hilonom																													
HRV_Block_2	HP144192	low																													
HRV_Block_3	HP145192	corr_low																													
HRV_Block_4	HP146192	low_nominal																													
HRV_Block_5	HP147192	corr_low_nom																													
HRV_Block_6	HP148192	low																													
HRV_Block_7	HP149192	corr_low																													
HRV_Block_8	HP150192	high_nominal_low																													
	ET=+00.00.01 UT=+00.00.01	<p>HIFI_Spectr_total_power HIFI_Spectr_total_power</p> <p>Command Parameter(s) :</p> <table> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>237436929 <dec></td></tr> </table> <p>Subsch. ID : 70</p> <p>Det. descr. : Start total-power spectroscopy measurement</p>	HIFI_BB_ID	HP001197	237436929 <dec>	HC151289																									
HIFI_BB_ID	HP001197	237436929 <dec>																													
	ET=+00.00.07 UT=+00.00.07	<p>HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks</p> <p>Command Parameter(s) :</p> <table> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>237436929 <dec></td></tr> <tr><td>HRH_Block_1</td><td>HP113192</td><td>corr_hilonom</td></tr> <tr><td>HRH_Block_2</td><td>HP114192</td><td>high_nominal</td></tr> <tr><td>HRH_Block_3</td><td>HP115192</td><td>high_nominal</td></tr> <tr><td>HRH_Block_4</td><td>HP116192</td><td>low_nominal</td></tr> <tr><td>HRH_Block_5</td><td>HP117192</td><td>corr_low_nom</td></tr> <tr><td>HRH_Block_6</td><td>HP118192</td><td>high_nominal</td></tr> <tr><td>HRH_Block_7</td><td>HP119192</td><td>high_nominal</td></tr> <tr><td>HRH_Block_8</td><td>HP120192</td><td>high_nominal_low</td></tr> </table> <p>Subsch. ID : 70</p> <p>Det. descr. : Configure the autocorrelation blocks of HRS-H</p>	HIFI_BB_ID	HP001197	237436929 <dec>	HRH_Block_1	HP113192	corr_hilonom	HRH_Block_2	HP114192	high_nominal	HRH_Block_3	HP115192	high_nominal	HRH_Block_4	HP116192	low_nominal	HRH_Block_5	HP117192	corr_low_nom	HRH_Block_6	HP118192	high_nominal	HRH_Block_7	HP119192	high_nominal	HRH_Block_8	HP120192	high_nominal_low	HC029289	
HIFI_BB_ID	HP001197	237436929 <dec>																													
HRH_Block_1	HP113192	corr_hilonom																													
HRH_Block_2	HP114192	high_nominal																													
HRH_Block_3	HP115192	high_nominal																													
HRH_Block_4	HP116192	low_nominal																													
HRH_Block_5	HP117192	corr_low_nom																													
HRH_Block_6	HP118192	high_nominal																													
HRH_Block_7	HP119192	high_nominal																													
HRH_Block_8	HP120192	high_nominal_low																													

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 237436929 <dec> corr_hilonom high_nominal high_nominal low_nominal corr_low_nom high_nominal high_nominal high_nominal_low	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237436929 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 237436929 <dec> corr_hilonom high_nominal high_nominal high high high_nominal high_nominal high_nominal_low	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70	HC031289 237436929 <dec> corr_hilonom high_nominal high_nominal high high high_nominal high_nominal high_nominal_low	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Det. descr. : Configure the autocorrelation blocks of HRS-V		
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 237436929 <dec>	
11		HRS Functional Test 4		Next Step: 12
	ET=+00.00.07 UT=+00.00.07	HIFI_config_spectroscopy HIFI_config_spectroscopy Command Parameter(s) : HIFI_BB_ID HP001197 HIF_N_WBS_START HP021197 HIF_R_HRS HP022197 HIF_N_WBS_INTEGR HP023197 HIF_N_HRS_INTEGR HP024197 HIF_DEL_HRS HP025197 HIF_DEL_WBS HP026197 HIF_T_ACC_WBS HP027197 HIF_T_ACC_HRS HP028197 HIF_WBSH_OFFSET1 HP029197 HIF_WBSH_WIDTH1 HP030197 HIF_WBSH_OFFSET2 HP031197 HIF_WBSH_WIDTH2 HP032197 HIF_WBSH_OFFSET3 HP033197 HIF_WBSH_WIDTH3 HP034197 HIF_WBSH_OFFSET4 HP035197 HIF_WBSH_WIDTH4 HP036197 HIF_WBSV_OFFSET1 HP037197 HIF_WBSV_WIDTH1 HP038197 HIF_WBSV_OFFSET2 HP039197 HIF_WBSV_WIDTH2 HP040197 HIF_WBSV_OFFSET3 HP041197 HIF_WBSV_WIDTH3 HP042197 HIF_WBSV_OFFSET4 HP043197 HIF_WBSV_WIDTH4 HP044197 HIF_HRS_RSHIFT HP045197 HIF_WBS_RSHIFT HP046197 HIF_HRS_SEL HP047197 HIF_HRSV_SEL HP048197 HIF_WBS_packing HP049197 Subsch. ID : 70 Det. descr. : Specify parameters for next spectroscopy measurement	HC150289 E380001 <hex> 4 <dec> 1 <dec> (Def) 2 <dec> 2 <dec> 2 <dec> 4 <dec> 4 <dec> 945 <dec> 929 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 2 <dec> 255 <dec> (Def) 255 <dec> (Def) 16_bits_format	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 238551041 <dec> corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide	
	ET=+00.00.01 UT=+00.00.01	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 238551041 <dec> corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide	
	ET=+00.00.01 UT=+00.00.01	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 238551041 <dec> H (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 238551041 <dec> V 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET+=00.00.01 UT+=00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET+=00.00.07 UT+=00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 238551041 <dec> H (Def) 14.0 dB 14.0 dB 14.0 dB 14.0 dB 14.0 dB 14.0 dB 14.0 dB 14.0 dB 14.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 14.0 dB 14.0 dB 14.0 dB 14.0 dB 14.0 dB 14.0 dB 14.0 dB 14.0 dB 14.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET+=00.00.01 UT+=00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET+=00.00.07 UT+=00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET+=00.00.00 UT+=00.00.00	HIFI_Config_HRS_V_att_lo <p style="text-align: center;">HIFI_Config_HRS_V_att_lo</p> Command Parameter(s) : HIFI_BB_ID HP001197 238551041 <dec> HRV_switch HP121192 V HRV_1U_ATT HP135192 13.0 dB HRV_1L_ATT HP136192 13.0 dB HRV_2U_ATT HP137192 13.0 dB HRV_2L_ATT HP138192 13.0 dB HRV_3U_ATT HP139192 13.0 dB HRV_3L_ATT HP140192 13.0 dB HRV_4U_ATT HP141192 13.0 dB HRV_4L_ATT HP142192 13.0 dB HRV_Up_OL1_M HP123192 67 <dec> HRV_Up_OL1_A HP122192 8 <dec> HRV_Up_OL2_M HP125192 72 <dec> HRV_Up_OL2_A HP124192 8 <dec> HRV_Up_OL3_M HP127192 77 <dec> HRV_Up_OL3_A HP126192 8 <dec> HRV_Up_OL4_M HP129192 82 <dec> HRV_Up_OL4_A HP128192 8 <dec> HRV_Down_OL5_M HP131192 51 <dec> (Def) HRV_Down_OL5_A HP130192 5 <dec> (Def) HRV_Down_OL6_M HP133192 49 <dec> (Def) HRV_Down_OL6_A HP132192 0 <dec> (Def) HRV_Down_OL7_M HP134192 7 <dec> Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289	
	ET+=00.00.01 UT+=00.00.01	HIFI_Spectr_total_power <p style="text-align: center;">HIFI_Spectr_total_power</p> Command Parameter(s) : HIFI_BB_ID HP001197 238551041 <dec> Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289	
	ET+=00.00.07 UT+=00.00.07	HIFI_Config_HRS_H_att_lo <p style="text-align: center;">HIFI_Config_HRS_H_att_lo</p> Command Parameter(s) : HIFI_BB_ID HP001197 238551041 <dec> HRH_switch HP091192 H (Def) HRH_1U_ATT HP105192 12.5 dB HRH_1L_ATT HP106192 12.5 dB HRH_2U_ATT HP107192 12.5 dB HRH_2L_ATT HP108192 12.5 dB HRH_3U_ATT HP109192 12.5 dB HRH_3L_ATT HP110192 12.5 dB HRH_4U_ATT HP111192 12.5 dB HRH_4L_ATT HP112192 12.5 dB HRH_Up_OL1_M HP093192 67 <dec>	HC028289	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 238551041 <dec> V 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 238551041 <dec> H (Def) 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 238551041 <dec> V 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET+=00.00.01 UT+=00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET+=00.00.07 UT+=00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



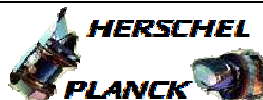
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 238551041 <dec> V 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 238551041 <dec> H (Def) 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 238551041 <dec> V 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 238551041 <dec> H (Def) 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 238551041 <dec> V 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET+=00.00.00 UT+=00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET+=00.00.01 UT+=00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET+=00.00.07 UT+=00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 238551041 <dec> H (Def) 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 238551041 <dec> V 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET+=00.00.01 UT+=00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET+=00.00.07 UT+=00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 238551041 <dec> V 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 238551041 <dec> H (Def) 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 238551041 <dec> V 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 238551041 <dec> H (Def) 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 238551041 <dec> H (Def) 0.5 dB 0.5 dB 0.5 dB 0.5 dB 0.5 dB 0.5 dB 0.5 dB 0.5 dB 0.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 238551041 <dec> V 0.5 dB 0.5 dB 0.5 dB 0.5 dB 0.5 dB 0.5 dB 0.5 dB 0.5 dB 0.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 238551041 <dec>	
12		HRS Linearity Test		Next Step: 13
	ET=+00.00.07 UT=+00.00.07	HIFI_config_spectroscopy HIFI_config_spectroscopy Command Parameter(s) : HIFI_BB_ID HP001197 HIF_N_WBS_START HP021197 HIF_R_HRS HP022197 HIF_N_WBS_INTEGR HP023197 HIF_N_HRS_INTEGR HP024197 HIF_DEL_HRS HP025197 HIF_DEL_WBS HP026197 HIF_T_ACC_WBS HP027197 HIF_T_ACC_HRS HP028197 HIF_WBSH_OFFSET1 HP029197 HIF_WBSH_WIDTH1 HP030197 HIF_WBSH_OFFSET2 HP031197 HIF_WBSH_WIDTH2 HP032197 HIF_WBSH_OFFSET3 HP033197 HIF_WBSH_WIDTH3 HP034197 HIF_WBSH_OFFSET4 HP035197 HIF_WBSH_WIDTH4 HP036197 HIF_WBSV_OFFSET1 HP037197 HIF_WBSV_WIDTH1 HP038197 HIF_WBSV_OFFSET2 HP039197 HIF_WBSV_WIDTH2 HP040197 HIF_WBSV_OFFSET3 HP041197 HIF_WBSV_WIDTH3 HP042197 HIF_WBSV_OFFSET4 HP043197 HIF_WBSV_WIDTH4 HP044197 HIF_HRS_RSHIFT HP045197	HC150289 F780001 <hex> 4 <dec> 1 <dec> (Def) 2 <dec> 2 <dec> 2 <dec> 4 <dec> 4 <dec> 945 <dec> 929 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> 0 <dec> (Def)	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HIF_WBS_RSHIFT HP046197 HIF_HRSH_SEL HP047197 HIF_HRSV_SEL HP048197 HIF_WBS_packing HP049197 Subsch. ID : 70 Det. descr. : Specify parameters for next spectroscopy measurement	2 <dec> 255 <dec> (Def) 255 <dec> (Def) 16_bits_format	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 259522561 <dec> corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide	
	ET=+00.00.01 UT=+00.00.01	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks Command Parameter(s) : HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 Subsch. ID : 70 Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 259522561 <dec> corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MX_MG_C HIFI_CH1_MX_MG_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MX_MG_C HP173191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer magnet current	HC096289 259522561 <dec> 0.0 mA	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MX_MG_C HIFI_CV1_MX_MG_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MX_MG_C HP188191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer magnet current	HC099289 259522561 <dec> 0.0 mA	
	ET=+00.00.01 UT=+00.00.01	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 259522561 <dec> V 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 15.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 259522561 <dec> H (Def) 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 14.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



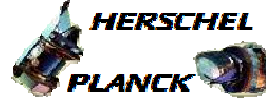
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 13.5 dB 13.5 dB 13.5 dB 13.5 dB 13.5 dB 13.5 dB 13.5 dB 13.5 dB 13.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 13.5 dB 13.5 dB 13.5 dB 13.5 dB 13.5 dB 13.5 dB 13.5 dB 13.5 dB 13.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 259522561 <dec> H (Def) 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



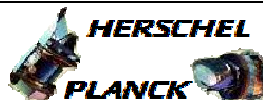
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 13.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 259522561 <dec> V 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 12.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HIFI_CV1_MXBIAS_V HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HIFI_Spectr_total_power HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 259522561 <dec> 8.0 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 12.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																																																																								
	ET=+00.00.00 UT=+00.00.00	<p>HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td> HIFI_BB_ID</td><td>HP001197</td><td>259522561 <dec></td></tr> <tr><td> HRV_switch</td><td>HP121192</td><td>V</td></tr> <tr><td> HRV_1U_ATT</td><td>HP135192</td><td>12.0 dB</td></tr> <tr><td> HRV_1L_ATT</td><td>HP136192</td><td>12.0 dB</td></tr> <tr><td> HRV_2U_ATT</td><td>HP137192</td><td>12.0 dB</td></tr> <tr><td> HRV_2L_ATT</td><td>HP138192</td><td>12.0 dB</td></tr> <tr><td> HRV_3U_ATT</td><td>HP139192</td><td>12.0 dB</td></tr> <tr><td> HRV_3L_ATT</td><td>HP140192</td><td>12.0 dB</td></tr> <tr><td> HRV_4U_ATT</td><td>HP141192</td><td>12.0 dB</td></tr> <tr><td> HRV_4L_ATT</td><td>HP142192</td><td>12.0 dB</td></tr> <tr><td> HRV_Up_OL1_M</td><td>HP123192</td><td>67 <dec></td></tr> <tr><td colspan="3"> </td></tr> <tr><td> HRV_Up_OL1_A</td><td>HP122192</td><td>8 <dec></td></tr> <tr><td> HRV_Up_OL2_M</td><td>HP125192</td><td>72 <dec></td></tr> <tr><td> HRV_Up_OL2_A</td><td>HP124192</td><td>8 <dec></td></tr> <tr><td> HRV_Up_OL3_M</td><td>HP127192</td><td>77 <dec></td></tr> <tr><td> HRV_Up_OL3_A</td><td>HP126192</td><td>8 <dec></td></tr> <tr><td> HRV_Up_OL4_M</td><td>HP129192</td><td>82 <dec></td></tr> <tr><td> HRV_Up_OL4_A</td><td>HP128192</td><td>8 <dec></td></tr> <tr><td> HRV_Down_OL5_M</td><td>HP131192</td><td>51 <dec> (Def)</td></tr> <tr><td> HRV_Down_OL5_A</td><td>HP130192</td><td>5 <dec> (Def)</td></tr> <tr><td> HRV_Down_OL6_M</td><td>HP133192</td><td>49 <dec> (Def)</td></tr> <tr><td> HRV_Down_OL6_A</td><td>HP132192</td><td>0 <dec> (Def)</td></tr> <tr><td> HRV_Down_OL7_M</td><td>HP134192</td><td>7 <dec></td></tr> </table> <p>Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V</p>	HIFI_BB_ID	HP001197	259522561 <dec>	HRV_switch	HP121192	V	HRV_1U_ATT	HP135192	12.0 dB	HRV_1L_ATT	HP136192	12.0 dB	HRV_2U_ATT	HP137192	12.0 dB	HRV_2L_ATT	HP138192	12.0 dB	HRV_3U_ATT	HP139192	12.0 dB	HRV_3L_ATT	HP140192	12.0 dB	HRV_4U_ATT	HP141192	12.0 dB	HRV_4L_ATT	HP142192	12.0 dB	HRV_Up_OL1_M	HP123192	67 <dec>				HRV_Up_OL1_A	HP122192	8 <dec>	HRV_Up_OL2_M	HP125192	72 <dec>	HRV_Up_OL2_A	HP124192	8 <dec>	HRV_Up_OL3_M	HP127192	77 <dec>	HRV_Up_OL3_A	HP126192	8 <dec>	HRV_Up_OL4_M	HP129192	82 <dec>	HRV_Up_OL4_A	HP128192	8 <dec>	HRV_Down_OL5_M	HP131192	51 <dec> (Def)	HRV_Down_OL5_A	HP130192	5 <dec> (Def)	HRV_Down_OL6_M	HP133192	49 <dec> (Def)	HRV_Down_OL6_A	HP132192	0 <dec> (Def)	HRV_Down_OL7_M	HP134192	7 <dec>	HC030289	
HIFI_BB_ID	HP001197	259522561 <dec>																																																																										
HRV_switch	HP121192	V																																																																										
HRV_1U_ATT	HP135192	12.0 dB																																																																										
HRV_1L_ATT	HP136192	12.0 dB																																																																										
HRV_2U_ATT	HP137192	12.0 dB																																																																										
HRV_2L_ATT	HP138192	12.0 dB																																																																										
HRV_3U_ATT	HP139192	12.0 dB																																																																										
HRV_3L_ATT	HP140192	12.0 dB																																																																										
HRV_4U_ATT	HP141192	12.0 dB																																																																										
HRV_4L_ATT	HP142192	12.0 dB																																																																										
HRV_Up_OL1_M	HP123192	67 <dec>																																																																										
HRV_Up_OL1_A	HP122192	8 <dec>																																																																										
HRV_Up_OL2_M	HP125192	72 <dec>																																																																										
HRV_Up_OL2_A	HP124192	8 <dec>																																																																										
HRV_Up_OL3_M	HP127192	77 <dec>																																																																										
HRV_Up_OL3_A	HP126192	8 <dec>																																																																										
HRV_Up_OL4_M	HP129192	82 <dec>																																																																										
HRV_Up_OL4_A	HP128192	8 <dec>																																																																										
HRV_Down_OL5_M	HP131192	51 <dec> (Def)																																																																										
HRV_Down_OL5_A	HP130192	5 <dec> (Def)																																																																										
HRV_Down_OL6_M	HP133192	49 <dec> (Def)																																																																										
HRV_Down_OL6_A	HP132192	0 <dec> (Def)																																																																										
HRV_Down_OL7_M	HP134192	7 <dec>																																																																										
	ET=+00.00.01 UT=+00.00.01	<p>HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td> HIFI_BB_ID</td><td>HP001197</td><td>259522561 <dec></td></tr> <tr><td> HF_CH1_MXBIAS_V</td><td>HP172191</td><td>9.99 mV</td></tr> </table> <p>Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage</p>	HIFI_BB_ID	HP001197	259522561 <dec>	HF_CH1_MXBIAS_V	HP172191	9.99 mV	HC095289																																																																			
HIFI_BB_ID	HP001197	259522561 <dec>																																																																										
HF_CH1_MXBIAS_V	HP172191	9.99 mV																																																																										
	ET=+00.00.00 UT=+00.00.00	<p>HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td> HIFI_BB_ID</td><td>HP001197</td><td>259522561 <dec></td></tr> <tr><td> HF_CV1_MXBIAS_V</td><td>HP187191</td><td>9.99 mV</td></tr> </table> <p>Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage</p>	HIFI_BB_ID	HP001197	259522561 <dec>	HF_CV1_MXBIAS_V	HP187191	9.99 mV	HC098289																																																																			
HIFI_BB_ID	HP001197	259522561 <dec>																																																																										
HF_CV1_MXBIAS_V	HP187191	9.99 mV																																																																										

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 259522561 <dec> H (Def) 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 11.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo <p style="text-align: center;">HIFI_Config_HRS_H_att_lo</p> Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo <p style="text-align: center;">HIFI_Config_HRS_V_att_lo</p> Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 259522561 <dec> V 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 11.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HIFI_CV1_MXBIAS_V HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HIFI_Spectr_total_power HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 259522561 <dec> 8.0 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 10.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 259522561 <dec> H (Def) 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 10.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 259522561 <dec> V 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 9.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 9.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 259522561 <dec> H (Def) 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 8.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 259522561 <dec> V 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 8.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HIFI_CV1_MXBIAS_V HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HIFI_Spectr_total_power HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 259522561 <dec> 8.0 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



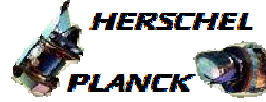
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 7.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 259522561 <dec> H (Def) 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 7.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 259522561 <dec> V 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 6.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HIFI_CV1_MXBIAS_V HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HIFI_Spectr_total_power HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 259522561 <dec> 8.0 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 6.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 259522561 <dec> H (Def) 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 5.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 259522561 <dec> V 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 5.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HIFI_CV1_MXBIAS_V HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HIFI_Spectr_total_power HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 259522561 <dec> 8.0 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 4.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 259522561 <dec> H (Def) 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 4.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 259522561 <dec> V 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 3.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 3.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 259522561 <dec> H (Def) 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 2.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192	HC030289 259522561 <dec> V 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 2.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 1.5 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 259522561 <dec> H (Def) 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 1.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HIFI_CV1_MXBIAS_V HC098289 259522561 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HIFI_Spectr_total_power HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 259522561 <dec> 8.0 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192 HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	HC028289 259522561 <dec> H (Def) 0.0 dB 0.0 dB 0.0 dB 0.0 dB 0.0 dB 0.0 dB 0.0 dB 0.0 dB 0.0 dB 0.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 259522561 <dec> V 0.0 dB 0.0 dB 0.0 dB 0.0 dB 0.0 dB 0.0 dB 0.0 dB 0.0 dB 0.0 dB 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 9.99 mV	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 259522561 <dec> 8.0 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 259522561 <dec> 8.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 259522561 <dec>	
13		HRS Cross-Polar Test		Next Step: 14
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MX_MG_C HIFI_CH1_MX_MG_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MX_MG_C HP173191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer magnet current	HC096289 238813186 <dec> 0.0 mA	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MX_MG_C HIFI_CV1_MX_MG_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MX_MG_C HP188191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer magnet current	HC099289 238813186 <dec> 0.0 mA (Def)	
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 210042881 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 210042881 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 243335169 <dec> H (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 243335169 <dec> V 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HIF_WBSH_OFFSET2 HP031197 HIF_WBSH_WIDTH2 HP032197 HIF_WBSH_OFFSET3 HP033197 HIF_WBSH_WIDTH3 HP034197 HIF_WBSH_OFFSET4 HP035197 HIF_WBSH_WIDTH4 HP036197 HIF_WBSV_OFFSET1 HP037197 HIF_WBSV_WIDTH1 HP038197 HIF_WBSV_OFFSET2 HP039197 HIF_WBSV_WIDTH2 HP040197 HIF_WBSV_OFFSET3 HP041197 HIF_WBSV_WIDTH3 HP042197 HIF_WBSV_OFFSET4 HP043197 HIF_WBSV_WIDTH4 HP044197 HIF_HRS_RSHIFT HP045197 HIF_WBS_RSHIFT HP046197 HIF_HRSH_SEL HP047197 HIF_HRSV_SEL HP048197 HIF_WBS_packing HP049197 Subsch. ID : 70 Det. descr. : Specify parameters for next spectroscopy measurement	2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> 2 <dec> 255 <dec> (Def) 255 <dec> (Def) 16_bits_format	
	ET=+00.00.00 UT=+00.00.00	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 211746817 <dec> 5.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HIFI_CV1_MXBIAS_V HC098289 211746817 <dec> 5.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HIFI_Spectr_total_power HC151289 211746817 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 211681281 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 211681281 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 211681281 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 243335170 <dec> H (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 243335170 <dec> H (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



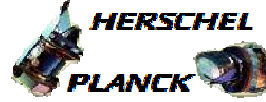
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	HIFI_Config_HRS_H_blocks HIFI_Config_HRS_H_blocks <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HRH_Block_1 HP113192 HRH_Block_2 HP114192 HRH_Block_3 HP115192 HRH_Block_4 HP116192 HRH_Block_5 HP117192 HRH_Block_6 HP118192 HRH_Block_7 HP119192 HRH_Block_8 HP120192 <i>Subsch. ID : 70</i> Det. descr. : Configure the autocorrelation blocks of HRS-H	HC029289 243335170 <dec> corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_blocks HIFI_Config_HRS_V_blocks <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HRV_Block_1 HP143192 HRV_Block_2 HP144192 HRV_Block_3 HP145192 HRV_Block_4 HP146192 HRV_Block_5 HP147192 HRV_Block_6 HP148192 HRV_Block_7 HP149192 HRV_Block_8 HP150192 <i>Subsch. ID : 70</i> Det. descr. : Configure the autocorrelation blocks of HRS-V	HC031289 243335170 <dec> corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide corr_wide	
	ET=+00.00.01 UT=+00.00.01	HIFI_Tune_HRS HIFI_Tune_HRS <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Find optimal setting for HRS attenuators	HC143289 235995140 <dec>	
	ET=+00.00.05 UT=+00.00.05	HIFI_config_spectroscopy HIFI_config_spectroscopy <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_N_WBS_START HP021197 HIF_R_HRS HP022197 HIF_N_WBS_INTEGR HP023197 HIF_N_HRS_INTEGR HP024197 HIF_DEL_HRS HP025197 HIF_DEL_WBS HP026197 HIF_T_ACC_WBS HP027197 HIF_T_ACC_HRS HP028197 HIF_WBSH_OFFSET1 HP029197 HIF_WBSH_WIDTH1 HP030197	HC150289 0 <dec> (Def) 4 <dec> 1 <dec> (Def) 2 <dec> 2 <dec> 2 <dec> 4 <dec> 945 <dec> 929 <dec> 0 <dec> (Def) 0 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HIF_WBSH_OFFSET2 HP031197 HIF_WBSH_WIDTH2 HP032197 HIF_WBSH_OFFSET3 HP033197 HIF_WBSH_WIDTH3 HP034197 HIF_WBSH_OFFSET4 HP035197 HIF_WBSH_WIDTH4 HP036197 HIF_WBSV_OFFSET1 HP037197 HIF_WBSV_WIDTH1 HP038197 HIF_WBSV_OFFSET2 HP039197 HIF_WBSV_WIDTH2 HP040197 HIF_WBSV_OFFSET3 HP041197 HIF_WBSV_WIDTH3 HP042197 HIF_WBSV_OFFSET4 HP043197 HIF_WBSV_WIDTH4 HP044197 HIF_HRS_RSHIFT HP045197 HIF_WBS_RSHIFT HP046197 HIF_HRSH_SEL HP047197 HIF_HRSV_SEL HP048197 HIF_WBS_packing HP049197 Subsch. ID : 70 Det. descr. : Specify parameters for next spectroscopy measurement	2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 2 <dec> 255 <dec> (Def) 255 <dec> (Def) 16_bits_format	
	ET=+00.00.00 UT=+00.00.00	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 211746818 <dec> 5.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HIFI_CV1_MXBIAS_V HC098289 211746818 <dec> 5.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HIFI_Spectr_total_power HC151289 211746818 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 211681282 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 211681282 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 211681282 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 243335171 <dec> V 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



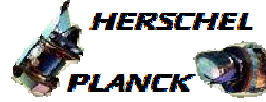
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 243335171 <dec> V 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HIF_WBSH_OFFSET2 HP031197 HIF_WBSH_WIDTH2 HP032197 HIF_WBSH_OFFSET3 HP033197 HIF_WBSH_WIDTH3 HP034197 HIF_WBSH_OFFSET4 HP035197 HIF_WBSH_WIDTH4 HP036197 HIF_WBSV_OFFSET1 HP037197 HIF_WBSV_WIDTH1 HP038197 HIF_WBSV_OFFSET2 HP039197 HIF_WBSV_WIDTH2 HP040197 HIF_WBSV_OFFSET3 HP041197 HIF_WBSV_WIDTH3 HP042197 HIF_WBSV_OFFSET4 HP043197 HIF_WBSV_WIDTH4 HP044197 HIF_HRS_RSHIFT HP045197 HIF_WBS_RSHIFT HP046197 HIF_HRSH_SEL HP047197 HIF_HRSV_SEL HP048197 HIF_WBS_packing HP049197 Subsch. ID : 70 Det. descr. : Specify parameters for next spectroscopy measurement	2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 2 <dec> 255 <dec> (Def) 255 <dec> (Def) 16_bits_format	
	ET=+00.00.00 UT=+00.00.00	HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HIFI_CH1_MXBIAS_V HC095289 211746819 <dec> 5.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HIFI_CV1_MXBIAS_V HC098289 211746819 <dec> 5.0 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HIFI_Spectr_total_power HC151289 211746819 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.07 UT=+00.00.07	HIFI_CH1_MXBIAS_V HIFI_CH1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MXBIAS_V HP172191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer bias voltage	HC095289 211681283 <dec> 9.99 mV	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MXBIAS_V HIFI_CV1_MXBIAS_V Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MXBIAS_V HP187191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer bias voltage	HC098289 211681283 <dec> 9.99 mV	
	ET=+00.00.01 UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 211681283 <dec>	
	ET=+00.00.07 UT=+00.00.07	HIFI_Config_HRS_H_att_lo HIFI_Config_HRS_H_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRH_switch HP091192 HRH_1U_ATT HP105192 HRH_1L_ATT HP106192 HRH_2U_ATT HP107192 HRH_2L_ATT HP108192 HRH_3U_ATT HP109192 HRH_3L_ATT HP110192 HRH_4U_ATT HP111192 HRH_4L_ATT HP112192 HRH_Up_OL1_M HP093192	HC028289 243335172 <dec> H (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HRH_Up_OL1_A HP092192 HRH_Up_OL2_M HP095192 HRH_Up_OL2_A HP094192 HRH_Up_OL3_M HP097192 HRH_Up_OL3_A HP096192 HRH_Up_OL4_M HP099192 HRH_Up_OL4_A HP098192 HRH_Down_OL5_M HP101192 HRH_Down_OL5_A HP100192 HRH_Down_OL6_M HP103192 HRH_Down_OL6_A HP102192 HRH_Down_OL7_M HP104192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-H	8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+00.00.00 UT=+00.00.00	HIFI_Config_HRS_V_att_lo HIFI_Config_HRS_V_att_lo Command Parameter(s) : HIFI_BB_ID HP001197 HRV_switch HP121192 HRV_1U_ATT HP135192 HRV_1L_ATT HP136192 HRV_2U_ATT HP137192 HRV_2L_ATT HP138192 HRV_3U_ATT HP139192 HRV_3L_ATT HP140192 HRV_4U_ATT HP141192 HRV_4L_ATT HP142192 HRV_Up_OL1_M HP123192 HRV_Up_OL1_A HP122192 HRV_Up_OL2_M HP125192 HRV_Up_OL2_A HP124192 HRV_Up_OL3_M HP127192 HRV_Up_OL3_A HP126192 HRV_Up_OL4_M HP129192 HRV_Up_OL4_A HP128192 HRV_Down_OL5_M HP131192 HRV_Down_OL5_A HP130192 HRV_Down_OL6_M HP133192 HRV_Down_OL6_A HP132192 HRV_Down_OL7_M HP134192 Subsch. ID : 70 Det. descr. : Configure the attenuators and local oscillators of HRS-V	HC030289 243335172 <dec> V 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 15.5 dB (Def) 67 <dec> 8 <dec> 72 <dec> 8 <dec> 77 <dec> 8 <dec> 82 <dec> 8 <dec> 51 <dec> (Def) 5 <dec> (Def) 49 <dec> (Def) 0 <dec> (Def) 7 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	HIFI_CH1_MX_MG_C HIFI_CH1_MX_MG_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MX_MG_C HP173191 Subsch. ID : 70 Det. descr. : Send single command to set H mixer magnet current	HC096289 238813187 <dec> 5.5 mA	
	ET=+00.00.00 UT=+00.00.00	HIFI_CV1_MX_MG_C HIFI_CV1_MX_MG_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MX_MG_C HP188191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer magnet current	HC099289 238813187 <dec> 10.48 mA	
14		HRS Tuning		Next Step: 15
	ET=+00.00.01 UT=+00.00.01	HIFI_Tune_HRS HIFI_Tune_HRS Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Find optimal setting for HRS attenuators	HC143289 E110006 <hex>	
	ET=+00.00.05 UT=+00.00.05	HIFI_config_spectroscopy HIFI_config_spectroscopy Command Parameter(s) : HIFI_BB_ID HP001197 HIF_N_WBS_START HP021197 HIF_R_HRS HP022197 HIF_N_WBS_INTEGR HP023197 HIF_N_HRS_INTEGR HP024197 HIF_DEL_HRS HP025197 HIF_DEL_WBS HP026197 HIF_T_ACC_WBS HP027197 HIF_T_ACC_HRS HP028197 HIF_WBSH_OFFSET1 HP029197 HIF_WBSH_WIDTH1 HP030197	HC150289 0 <dec> (Def) 4 <dec> 1 <dec> (Def) 2 <dec> 2 <dec> 2 <dec> 4 <dec> 945 <dec> 929 <dec> 0 <dec> (Def) 0 <dec>	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HIF_WBSH_OFFSET2 HP031197 HIF_WBSH_WIDTH2 HP032197 HIF_WBSH_OFFSET3 HP033197 HIF_WBSH_WIDTH3 HP034197 HIF_WBSH_OFFSET4 HP035197 HIF_WBSH_WIDTH4 HP036197 HIF_WBSV_OFFSET1 HP037197 HIF_WBSV_WIDTH1 HP038197 HIF_WBSV_OFFSET2 HP039197 HIF_WBSV_WIDTH2 HP040197 HIF_WBSV_OFFSET3 HP041197 HIF_WBSV_WIDTH3 HP042197 HIF_WBSV_OFFSET4 HP043197 HIF_WBSV_WIDTH4 HP044197 HIF_HRS_RSHIFT HP045197 HIF_WBS_RSHIFT HP046197 HIF_HRSH_SEL HP047197 HIF_HRSV_SEL HP048197 HIF_WBS_packing HP049197 Subsch. ID : 70 Det. descr. : Specify parameters for next spectroscopy measurement	2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 0 <dec> 2048 <dec> (Def) 0 <dec> 4096 <dec> (Def) 0 <dec> 6144 <dec> (Def) 0 <dec> 0 <dec> (Def) 2 <dec> 255 <dec> (Def) 255 <dec> (Def) 16_bits_format	
	ET=+00.00.00 UT=+00.00.00	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289 236322818 <dec>	
15		Switch to FPU band 0		Next Step: 16
	ET=+00.00.07 UT=+00.00.07	Execute Telecommand HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 HF_CPR_Mixer_H_S HP203191 HF_CPR_Mixer_V_S HP204191 HF_CPR_Chopper_S HP205191 HF_CPR_UCH_S HP206191 HF_CPR_UCV_S HP207191 Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289 1C200002 <hex> ON (Def) ON (Def) ON (Def) ON (Def) ON (Def)	

HRS Functional Test
 File: H_COP_HIF_NFHR.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand HIFI_CV1_MX_MG_C Command Parameter(s) : HIFI_BB_ID HP001197 HIFI_CV1_MX_MG_C HP188191 Subsch. ID : 70 Det. descr. : Send single command to set V mixer magnet current	HC099289 1C200002 <hex> 0.5 mA	
	ET=+00.00.01 UT=+00.00.01	Execute Telecommand HIFI_non_periodic_hk_FCU Subsch. ID : 70 Det. descr. : Requests non-periodic housekeeping packet from FCU	HC017289	
	ET=+00.00.07 UT=+00.00.07	HIFI_Housekeeping_on HIFI_Housekeeping_on Command Parameter(s) : HIF_HK_rate HP012197 HIF_FCU_S HP006197 HIF_LCU_S HP007197 HIF_WBSV_S HP009197 HIF_WBSH_S HP008197 HIF_HRSV_S HP011197 HIF_HRSR_S HP010197 Subsch. ID : 70 Det. descr. : Sets periodic housekeeping packet generation period	HC016289 1_pkt_per_4_s ON (Def) ON (Def) ON (Def) ON (Def) ON (Def) ON (Def)	
		Verify: The following TM(3,25) packets should be produced once every 4 seconds: HIFI_essential_HK (APID 1024) HIFI_HK_rev_7 (APID 1026)		
16		Set default OBSID/BBID		Next Step: END
	ET=+00.00.01 UT=+00.00.01	HIFI_Set_OBS_ID HIFI_Set_OBS_ID Command Parameter(s) : HIFI_BB_ID HP001197 HIFI_OBS_ID HP000197 Subsch. ID : 70 Det. descr. : Set Observation-ID and Building-Block-ID	HC014289 0 <hex> (Def) 0 <hex> (Def)	
		Verify Telemetry BB_ID_per_hk HM004190	= 0 <hex>	AND=ZAZ9C999
		Verify Telemetry OBS_ID_per_hk HM003190	= 0 <hex>	AND=ZAZ9C999

HRS Functional Test
File: H_COP_HIF_NFHR.xls
Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
End of Procedure				