

Parametric Scan at 1834 GHz
 File: H_COP_HIF_PS20.xls
 Author: R. Biggins



Procedure Summary

Objectives

The objective of this procedure is to execute a parametric scan investigation in band 7b at 1834.0 GHz

Based on procedure:
 HifiManCmd_Parameter_Scan_MOIS (v1)

Summary of Constraints

Spacecraft Configuration

Start of Procedure

End of Procedure

Reference File(s)

Input Command Sequences

Output Command Sequences

HCHPS20X
 HCHPS20Y

Referenced Displays

ANDs GRDs SLDs
 ZAZ9C999

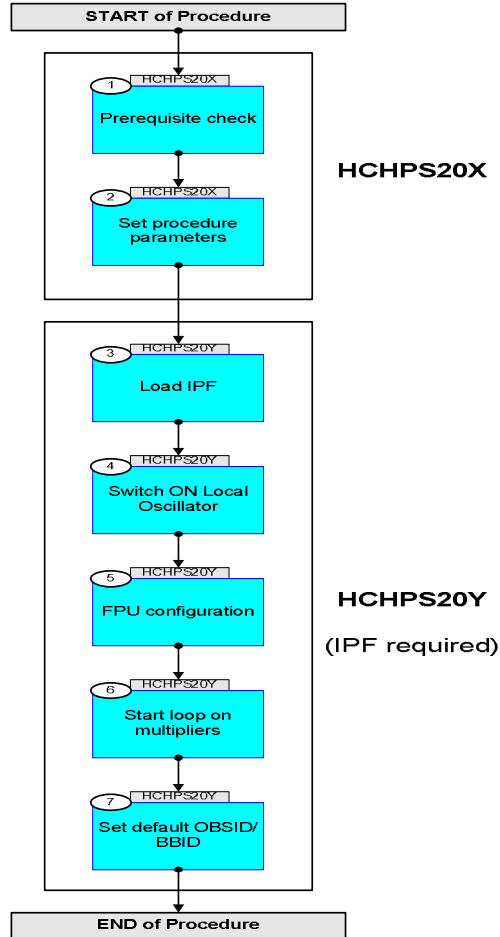
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
28/05/09		1	Created	R. Biggins	
31/05/09		2	- All ET times removed	R. Biggins	
11/06/09	2.5	3	Update to some FP descriptions (due to MOIS error)	R. Biggins	

Parametric Scan at 1834 GHz
File: H_COP_HIF_PS20.xls
Author: R. Biggins



Procedure Flowchart Overview



Parametric Scan at 1834 GHz
 File: H_COP_HIF_PS20.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																					
	ET=+ UT=+00.00.00	<p>HIFI_Housekeeping_on</p> <p style="text-align: center;">HIFI_Housekeeping_on</p> <p>Command Parameter(s) :</p> <table border="0"> <tr> <td>HIF_HK_rate</td> <td>HP012197</td> <td>1_pkt_per_s</td> </tr> <tr> <td>HIF_FCU_S</td> <td>HP006197</td> <td>ON (Def)</td> </tr> <tr> <td>HIF_LCU_S</td> <td>HP007197</td> <td>ON (Def)</td> </tr> <tr> <td>HIF_WBSV_S</td> <td>HP009197</td> <td>ON (Def)</td> </tr> <tr> <td>HIF_WBSH_S</td> <td>HP008197</td> <td>ON (Def)</td> </tr> <tr> <td>HIF_HRSV_S</td> <td>HP011197</td> <td>ON (Def)</td> </tr> <tr> <td>HIF_HRSH_S</td> <td>HP010197</td> <td>ON (Def)</td> </tr> </table> <p>TC Control Flags :</p> <p style="text-align: center;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 70 Det. descr. : Sets periodic housekeeping packet generation period</p>	HIF_HK_rate	HP012197	1_pkt_per_s	HIF_FCU_S	HP006197	ON (Def)	HIF_LCU_S	HP007197	ON (Def)	HIF_WBSV_S	HP009197	ON (Def)	HIF_WBSH_S	HP008197	ON (Def)	HIF_HRSV_S	HP011197	ON (Def)	HIF_HRSH_S	HP010197	ON (Def)	HC016289	
HIF_HK_rate	HP012197	1_pkt_per_s																							
HIF_FCU_S	HP006197	ON (Def)																							
HIF_LCU_S	HP007197	ON (Def)																							
HIF_WBSV_S	HP009197	ON (Def)																							
HIF_WBSH_S	HP008197	ON (Def)																							
HIF_HRSV_S	HP011197	ON (Def)																							
HIF_HRSH_S	HP010197	ON (Def)																							
		<p>Verify: The following TM(3,25) packets should be produced once every second:</p> <p>HIFI_essential_HK (APID 1024) HIFI_HK_rev_7 (APID 1026)</p>																							
<p>TC Seq. Name :HCHPS20Y (Parametric Scan)</p> <p>TimeTag Type: N Sub Schedule ID: <input type="checkbox"/></p>																									
3		Load IPF		Next Step: 4																					
		<p>Load the following IPF (TPF) file into the Manual Stack (where vvvv is the latest version number):</p> <p>HCHPS20Y_PARM_7B2_vvvv.IPF</p>																							
4		Switch ON Local Oscillator		Next Step: 5																					
	ET=+ UT=+00.00.01	<p>HIFI_HL_Normal</p> <p style="text-align: center;">HIFI_HL_Normal</p> <p>Command Parameter(s) :</p> <table border="0"> <tr> <td>HIFI_BB_ID</td> <td>HP001197</td> <td>237633537 <dec></td> </tr> </table> <p>TC Control Flags :</p> <p style="text-align: center;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 70 Det. descr. : Send single command to switch LCU to normal mode</p>	HIFI_BB_ID	HP001197	237633537 <dec>	HC082289																			
HIFI_BB_ID	HP001197	237633537 <dec>																							

Parametric Scan at 1834 GHz
 File: H_COP_HIF_PS20.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch7b HIFI_Conf_nom_LCU_ch7b Command Parameter(s) : HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_7B_C HP389194 HL_M1_7B_V HP390194 HL_M2_7B_V HP391194 HL_Gate1_7B_V HP392194 HL_Gate2_7B_V HP393194 HL_Drain1_7B_V HP394194 HL_Curlim1 HP290194 HL_Drain2_7B_V HP395194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 7b	HC048289 237043713 <dec> 1 <dec> 4062254329 <dec> 4063330019 <dec> 2 <dec> 0.0 A (Def) 1 2 3 4 5 6 7 8 1 <dec>	
	ET=+ UT=+00.00.20	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk Subsch. ID : 70 Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	
	ET=+ UT=+00.00.02	HIFI_HL_heater HIFI_HL_heater Command Parameter(s) : HIFI_BB_ID HP001197 HL_heater HP397194 Subsch. ID : 70 Det. descr. : Send single command to control the LCU heater	HC086289 236912641 <dec> 2 V	
5		FPU configuration		Next Step: 6
	ET=+ 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 262078465 <dec> ON (Def) ON (Def) ON (Def) ON (Def) ON (Def)	

Parametric Scan at 1834 GHz
 File: H_COP_HIF_PS20.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ 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_DPFP1 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 HF_CH2_SIF3_Drain_V HP185191 HF_CH2_SIF3_Drain_C HP186191 HF_CV1_DPFP1 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_CHFP1 HP212191 HF_CPR_CHFP2 HP213191 HF_CPR_CHFPZ1 HP214191 HF_CPR_CHFPZ2 HP215191 HF_CPR_CHFP2 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 Subsch. ID : 70 Det. descr. : Configure the FCU-subsystem (prime)	HC182289 262078465 <dec> 7 <dec> 227 <dec> (Def) 0.75 V 4 mA 0.65 V 3 mA 0.57 V 3.5 mA 0.8 V 1.85 mA 0.8 v 2.5 mA 227 <dec> (Def) 0.75 V 4 mA 0.65 V 3 mA 0.57 V 3.5 mA 0.57 V 3.5 mA 3.5 mA 0.71 V 2.8 mA ON (Def) CLOSE (Def) 17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 6 mV 0 mA (Def) 6 mV 0 mA (Def) 7.665 V - 0.399267311789458 mA 0.326238914152713 mA	
	ET=+ UT=+00.00.03	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 262078465 <dec> 0.6 mV	

Parametric Scan at 1834 GHz
 File: H_COP_HIF_PS20.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ 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 262078465 <dec> 0.6 mV	
6		Start loop on multipliers		Next Step: 7
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Send single command to switch LCU to normal mode	HC082289 243662849 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch7b HIFI_Conf_nom_LCU_ch7b Command Parameter(s) : HIFI_BB_ID HP001197 243662849 <dec> HL_freq_nx HP436194 12 <dec> HL_LSU_main HP438194 4062315504 <dec> HL_LSU_offset HP439194 4063329764 <dec> HL_D2_step HP437194 2 <dec> HL_PL_7B_C HP389194 0.0 A (Def) HL_M1_7B_V HP390194 9 HL_M2_7B_V HP391194 10 HL_Gate1_7B_V HP392194 11 HL_Gate2_7B_V HP393194 12 HL_Drain1_7B_V HP394194 13 HL_Curlim1 HP290194 14 HL_Drain2_7B_V HP395194 15 HL_Curlim2 HP291194 16 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 7b	HC048289 243662849 <dec> 12 <dec> 4062315504 <dec> 4063329764 <dec> 2 <dec> 0.0 A (Def) 9 10 11 12 13 14 15 16 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk Subsch. ID : 70 Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

Parametric Scan at 1834 GHz
 File: H_COP_HIF_PS20.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_Load_vector_nom_7b HIFI_Load_vector_nom_7b Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PLEVEL_C HP292194 HL_M1_7B_V HP390194 HL_M2_7B_V HP391194 HL_Gate1_7B_V HP392194 HL_Gate2_7B_V HP393194 HL_Drain1_7B_V HP394194 HL_Curlim1 HP290194 HL_Drain2_7B_V HP395194 HL_Curlim2 HP291194 HL_step_PL_C HP431194 HL_step_M1_7B_V HP429194 HL_step_M2_7B_V HP430194 HL_step_gate1_V HP432194 HL_step_gate2_V HP433194 HL_step_drain1_V HP434194 HL_step_drain2_V HP435194 Subsch. ID : 70 Det. descr. : Specify vector-scan (start and step) for LCU band 7b	HC127289 243662849 <dec> 10 <dec> (Def) 1.0 s (Def) 12 <dec> 4062315504 <dec> 4063329764 <dec> 2 <dec> 0.0 A (Def) 17 18 19 20 21 22 23 24 0.0 A (Def) 0.0 V (Def) 0.0 V (Def) 0.0 V (Def) 0.0 V (Def) 0.0 V (Def) 0.0 V (Def) 0.0 V (Def) - 3.39412110523222E-02 V	
	ET=+ UT=+00.00.01	HIFI_Tune_LO_Using_MXCH HIFI_Tune_LO_Using_MXCH Command Parameter(s) : HIFI_BB_ID HP001197 HIF_mxmgh_target_C HP064191 Subsch. ID : 70 Det. descr. : Tune LO-level using H-mixer current (bands 1,2,3,4,6,7)	HC138289 243662849 <dec> 0.045 mA	
	ET=+ UT=+00.00.12	HIFI_HL_store_tm HIFI_HL_store_tm Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Send single command to store the current tuning macro	HC089289 243662849 <dec>	
	ET=+ UT=+00.00.01	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk Subsch. ID : 70 Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

Parametric Scan at 1834 GHz
 File: H_COP_HIF_PS20.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_HL_Normal HIFI_HL_Normal Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Send single command to switch LCU to normal mode	HC082289 243662850 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch7b HIFI_Conf_nom_LCU_ch7b Command Parameter(s) : HIFI_BB_ID HP001197 243662850 <dec> HL_freq_nx HP436194 12 <dec> HL_LSU_main HP438194 4062315504 <dec> HL_LSU_offset HP439194 4063329764 <dec> HL_D2_step HP437194 2 <dec> HL_PL_7B_C HP389194 0 A (Def) HL_M1_7B_V HP390194 25 V HL_M2_7B_V HP391194 26 V HL_Gate1_7B_V HP392194 27 V HL_Gate2_7B_V HP393194 28 V HL_Drain1_7B_V HP394194 29 V HL_Curlim1 HP290194 30 HL_Drain2_7B_V HP395194 31 V HL_Curlim2 HP291194 32 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 7b	HC048289 243662850 <dec> 12 <dec> 4062315504 <dec> 4063329764 <dec> 2 <dec> 0 A (Def) 25 V 26 V 27 V 28 V 29 V 30 31 V 32 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk Subsch. ID : 70 Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	
	ET=+ UT=+00.00.02	HIFI_Load_vector_nom_7b HIFI_Load_vector_nom_7b Command Parameter(s) : HIFI_BB_ID HP001197 243662850 <dec> HIF_Nsteps HP054197 10 <dec> (Def) HIF_step_time HP055197 1 s (Def) HL_freq_nx HP436194 12 <dec> HL_LSU_main HP438194 4062315504 <dec> HL_LSU_offset HP439194 4063329764 <dec> HL_D2_step HP437194 2 <dec> HL_PLEVEL_C HP292194 0 A (Def) HL_M1_7B_V HP390194 33 V HL_M2_7B_V HP391194 34 V HL_Gate1_7B_V HP392194 35 V	HC127289 243662850 <dec> 10 <dec> (Def) 1 s (Def) 12 <dec> 4062315504 <dec> 4063329764 <dec> 2 <dec> 0 A (Def) 33 V 34 V 35 V	

Parametric Scan at 1834 GHz
 File: H_COP_HIF_PS20.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Gate2_7B_V HP393194 HL_Drain1_7B_V HP394194 HL_Curlim1 HP290194 HL_Drain2_7B_V HP395194 HL_Curlim2 HP291194 HL_step_PL_C HP431194 HL_step_M1_7B_V HP429194 HL_step_M2_7B_V HP430194 HL_step_gate1_V HP432194 HL_step_gate2_V HP433194 HL_step_drain1_V HP434194 HL_step_drain2_V HP435194 Subsch. ID : 70 Det. descr. : Specify vector-scan (start and step) for LCU band 7b	36 V 37 V 38 39 V 40 0 A (Def) 0 V (Def) 0 V (Def) 0 V (Def) 0 V (Def) 0 V (Def) 0 V (Def) - 3.39412110523222E-02 V	
	ET=+ UT=+00.00.01	HIFI_Tune_LO_Using_MXCH HIFI_Tune_LO_Using_MXCH Command Parameter(s) : HIFI_BB_ID HP001197 HIF_mxmg_h_target_C HP064191 Subsch. ID : 70 Det. descr. : Tune LO-level using H-mixer current (bands 1,2,3,4,6,7)	HC138289 243662850 <dec> 0.045 mA	
	ET=+ UT=+00.00.12	HIFI_HL_store_tm HIFI_HL_store_tm Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Send single command to store the current tuning macro	HC089289 243662850 <dec>	
	ET=+ UT=+00.00.01	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk Subsch. ID : 70 Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	
	ET=+ UT=+00.00.02	HIFI_HL_Normal HIFI_HL_Normal Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Send single command to switch LCU to normal mode	HC082289 243662851 <dec>	

Parametric Scan at 1834 GHz
 File: H_COP_HIF_PS20.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Gate2_7B_V HP393194 HL_Drain1_7B_V HP394194 HL_Curlim1 HP290194 HL_Drain2_7B_V HP395194 HL_Curlim2 HP291194 HL_step_PL_C HP431194 HL_step_M1_7B_V HP429194 HL_step_M2_7B_V HP430194 HL_step_gate1_V HP432194 HL_step_gate2_V HP433194 HL_step_drain1_V HP434194 HL_step_drain2_V HP435194 Subsch. ID : 70 Det. descr. : Specify vector-scan (start and step) for LCU band 7b	52 V 53 V 54 55 V 56 0 A (Def) 0 V (Def) 0 V (Def) 0 V (Def) 0 V (Def) 0 V (Def) 0 V (Def) - 3.39412110523222E-02 V	
	ET=+ UT=+00.00.01	HIFI_Tune_LO_Using_MXCH HIFI_Tune_LO_Using_MXCH Command Parameter(s) : HIFI_BB_ID HP001197 HIF_mxmg_h_target_C HP064191 Subsch. ID : 70 Det. descr. : Tune LO-level using H-mixer current (bands 1,2,3,4,6,7)	HC138289 243662851 <dec> 0.045 mA	
	ET=+ UT=+00.00.12	HIFI_HL_store_tm HIFI_HL_store_tm Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Send single command to store the current tuning macro	HC089289 243662851 <dec>	
	ET=+ UT=+00.00.01	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk Subsch. ID : 70 Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	
	ET=+ UT=+00.00.02	HIFI_HL_Normal HIFI_HL_Normal Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Send single command to switch LCU to normal mode	HC082289 243662852 <dec>	

Parametric Scan at 1834 GHz
 File: H_COP_HIF_PS20.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Gate2_7B_V HP393194 HL_Drain1_7B_V HP394194 HL_Curlim1 HP290194 HL_Drain2_7B_V HP395194 HL_Curlim2 HP291194 HL_step_PL_C HP431194 HL_step_M1_7B_V HP429194 HL_step_M2_7B_V HP430194 HL_step_gate1_V HP432194 HL_step_gate2_V HP433194 HL_step_drain1_V HP434194 HL_step_drain2_V HP435194 Subsch. ID : 70 Det. descr. : Specify vector-scan (start and step) for LCU band 7b	68 V 69 V 70 71 V 72 0 A (Def) 0 V (Def) 0 V (Def) 0 V (Def) 0 V (Def) 0 V (Def) 0 V (Def) - 3.39412110523222E-02 V	
	ET=+ UT=+00.00.01	HIFI_Tune_LO_Using_MXCH Command Parameter(s) : HIFI_BB_ID HP001197 HIF_mxmg_h_target_C HP064191 Subsch. ID : 70 Det. descr. : Tune LO-level using H-mixer current (bands 1,2,3,4,6,7)	HIFI_Tune_LO_Using_MXCH HC138289 243662852 <dec> 0.045 mA	
	ET=+ UT=+00.00.12	HIFI_HL_store_tm Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Send single command to store the current tuning macro	HIFI_HL_store_tm HC089289 243662852 <dec>	
	ET=+ UT=+00.00.01	HIFI_LCU_all_tuning_hk Subsch. ID : 70 Det. descr. : Requests all five LCU intermediate housekeeping-sets	HIFI_LCU_all_tuning_hk HC193289	
	ET=+ UT=+00.00.02	HIFI_HL_Normal Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Send single command to switch LCU to normal mode	HIFI_HL_Normal HC082289 243662853 <dec>	

Parametric Scan at 1834 GHz
 File: H_COP_HIF_PS20.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Gate2_7B_V HP393194 HL_Drain1_7B_V HP394194 HL_Curlim1 HP290194 HL_Drain2_7B_V HP395194 HL_Curlim2 HP291194 HL_step_PL_C HP431194 HL_step_M1_7B_V HP429194 HL_step_M2_7B_V HP430194 HL_step_gate1_V HP432194 HL_step_gate2_V HP433194 HL_step_drain1_V HP434194 HL_step_drain2_V HP435194 Subsch. ID : 70 Det. descr. : Specify vector-scan (start and step) for LCU band 7b	84 V 85 V 86 87 V 88 0 A (Def) 0 V (Def) 0 V (Def) 0 V (Def) 0 V (Def) 0 V (Def) 0 V (Def) - 3.39412110523222E-02 V	
	ET=+ UT=+00.00.01	HIFI_Tune_LO_Using_MXCH HIFI_Tune_LO_Using_MXCH Command Parameter(s) : HIFI_BB_ID HP001197 HIF_mxmg_h_target_C HP064191 Subsch. ID : 70 Det. descr. : Tune LO-level using H-mixer current (bands 1,2,3,4,6,7)	HC138289 243662853 <dec> 0.045 mA	
	ET=+ UT=+00.00.12	HIFI_HL_store_tm HIFI_HL_store_tm Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Send single command to store the current tuning macro	HC089289 243662853 <dec>	
	ET=+ UT=+00.00.01	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk Subsch. ID : 70 Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	
	ET=+ UT=+00.00.02	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)	

Parametric Scan at 1834 GHz
 File: H_COP_HIF_PS20.xls
 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_noop Subsch. ID : 70 Det. descr. : Invokes no operation	HIFI_noop HC179289	
	ET=+ UT=+00.00.00	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	HIFI_Housekeeping_on 1_pkt_per_10_s ON (Def) ON (Def) ON (Def) ON (Def) ON (Def) ON (Def)	
7		Set default OBSID/BBID		Next Step: END
	ET=+ UT=+00.00.01	HIFI_Set_OBS_ID Command Parameter(s) : HIFI_BB_ID HP001197 HIFI_OBS_ID HP000197 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 70 Det. descr. : Set Observation-ID and Building-Block-ID	HIFI_Set_OBS_ID 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
End of Procedure				