

HIFI-COP-3-Spur_B3b_3
 File: H_COP_HIF_SP33.xls
 Author: R. Biggins



Procedure Summary

Objectives

The objective of this procedure is to address the issue of the LO spectral purity in some areas of the tuneable range of the LO sub-band 3b.

Based on procedure:
 HIFI-COP-3-Spur_B3b_3 (v2)

Summary of Constraints

Success of HIFI-COP-2 is a pre-requisite, with particular emphasis on the updates of the diplexer model following HIFI-2.2-DipCal2.
 This test must be witnessed by instrument experts since the values taken by the parameter varied here are critical for the health of the LO S/S.

RT Science must be enabled

Spacecraft Configuration

Start of Procedure

HIFI is in STANDBY mode

End of Procedure

HIFI is in STANDBY mode

Reference File(s)

Input Command Sequences

Output Command Sequences

HCHSP33X
 HCHSP33Y

Referenced Displays

ANDs **GRDs** **SLDs**
 ZAZ9C999

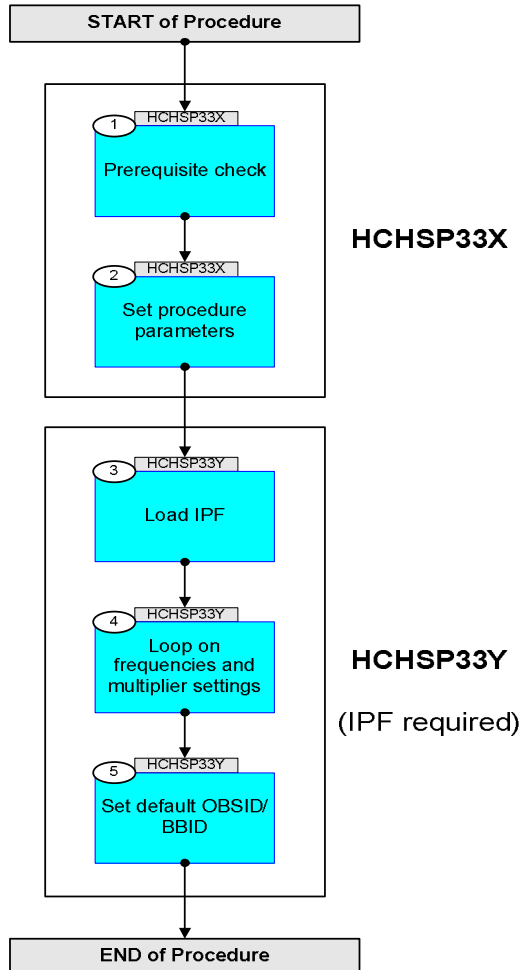
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
14/04/09	2.3	1	Created	R. Biggins	
30/04/09	2.4	2	Update due to time tag problems in the sequence - ET times added to TCs at beginning and end	R. Biggins	
31/05/09	2.5	3	- All ETs removed from commands - Descroctions of certain FPs updated (incorrect due to MOIS import)	R. Biggins	

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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_Housekeeping_on HIFI_Housekeeping_on Command Parameter(s) : 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) Subsch. ID : 70 Det. descr. : Sets periodic housekeeping packet generation period	HC016289	
		Verify: The following TM(3,25) packets should be produced once every second: HIFI_essential_HK (APID 1024) HIFI_HK_rev_7 (APID 1026)		
TC Seq. Name :HCHSP33Y (Diplexer Scan) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
3		Load IPF		Next Step: 4
		Load the following IPF (TPF) file into the Manual Stack (where vvvv is the latest version number): HCHSP33Y_SPUR_B3B_vvvv.IPF		
4		Loop on frequencies and multiplier settings		Next Step: 5
		The following TCs should be sent automatically with the defined time separation.		
	ET=+ UT=+00.00.01	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 209715201 <dec> HF_CPR_Mixer_H_S HP203191 ON (Def) HF_CPR_Mixer_V_S HP204191 ON (Def) HF_CPR_Chopper_S HP205191 ON (Def) HF_CPR_UCH_S HP206191 ON (Def) HF_CPR_UCV_S HP207191 ON (Def) Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289	

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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) :	HC182289	
		HIFI_BB_ID HP001197	209715201 <dec>	
		HF_CPR_MXBAND HP202191	3 <dec>	
		HF_CH1_DPFP1 HP176191	227 <dec> (Def)	
		HF_CH2_FIF1_Drain_V HP177191	0.75 V	
		HF_CH2_FIF1_Drain_C HP178191	4 mA	
		HF_CH2_FIF2_Drain_V HP179191	0.65 V	
		HF_CH2_FIF2_Drain_C HP180191	3 mA	
		HF_CH2_SIF1_Drain_V HP181191	0.82 V	
		HF_CH2_SIF1_Drain_C HP182191	2.5 mA	
		HF_CH2_SIF2_Drain_V HP183191	0.8 V	
		HF_CH2_SIF2_Drain_C HP184191	1.9 mA	
		HF_CH2_SIF3_Drain_V HP185191	0.65 V	
		HF_CH2_SIF3_Drain_C HP186191	3 mA	
		HF_CV1_DPFP1 HP191191	227 <dec> (Def)	
		HF_CV2_FIF1_Drain_V HP192191	0.75 V	
		HF_CV2_FIF1_Drain_C HP193191	4 mA	
		HF_CV2_FIF2_Drain_V HP194191	0.65 V	
		HF_CV2_FIF2_Drain_C HP195191	3 mA	
		HF_CV2_SIF1_Drain_V HP196191	0.77 V	
		HF_CV2_SIF1_Drain_C HP197191	3 mA	
		HF_CV2_SIF2_Drain_V HP198191	0.9 V	
		HF_CV2_SIF2_Drain_C HP199191	1.55 mA	
		HF_CV2_SIF3_Drain_V HP200191	0.75 V	
		HF_CV2_SIF3_Drain_C HP201191	2.5 mA	
		HF_CPR_CH_SINE_S HP211191	ON (Def)	
		HF_CPR_CH_LOOP_S HP210191	CLOSE (Def)	
		HF_CPR_CHFP1 HP212191	17 <dec>	
		HF_CPR_CHFP2 HP213191	201 <dec>	
		HF_CPR_CHFPZ1 HP214191	1010 <dec>	
		HF_CPR_CHFPZ2 HP215191	885 <dec>	
		HF_CPR_CHFP2 HP216191	149 <dec>	
		HF_CPR_Cal_Heater_C HP217191	1.1 mA	
		HF_CH1_MXBIAS_V HP172191	2.33055555555555	
		HF_CH1_MX_MG_C HP173191	mV	
		HF_CV1_MXBIAS_V HP187191	15 mA	
		HF_CV1_MX_MG_C HP188191	2.33055555555555	
		HF_P_Chopper_Rot HP454191	mV	
		HF_CH1_DFACT_C HP174191	15 mA	
		HF_CV1_DFACT_C HP189191	-1.07 V	
		Subsch. ID : 70	0.492127695800228	
			mA	
			-	
			0.332285607264471	
			mA	
		Det. descr. : Configure the FCU-subsystem (prime)		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.03	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 209715201 <dec> 8.3 mA	
	ET=+ 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 209715201 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747649 <dec> 0.492127695800228 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747649 <dec> - 0.332285607264471 mA	
	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 257097729 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254145 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254146 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254146 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254146 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747650 <dec> 0.492127695800228 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747650 <dec> - 0.332285607264471 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097730 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194 HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	HC040289 257097730 <dec> 17 <dec> 4062275063 <dec> 4063377890 <dec> 2 <dec> 0.0 A (Def) 10 11 12 13 14 15 16 17 18 1 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254147 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254147 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254147 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254148 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254148 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254148 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747651 <dec> 0.492127695800228 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747651 <dec> - 0.332285607264471 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097731 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254149 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254150 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254150 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254150 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747652 <dec> 0.492127695800228 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747652 <dec> - 0.332285607264471 mA	
	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 257097732 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194 HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	HC040289 257097732 <dec> 17 <dec> 4062275063 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 28 V 29 V 30 V 31 V 32 V 33 V 34 35 V 36 1 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254151 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254151 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254151 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254152 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254152 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254152 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747653 <dec> 0.492127695800228 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747653 <dec> - 0.332285607264471 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097733 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254153 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254154 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254154 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254154 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747654 <dec> 0.492127695800228 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747654 <dec> - 0.332285607264471 mA	
	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 257097734 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194 HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	HC040289 257097734 <dec> 17 <dec> 4062275063 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 46 V 47 V 48 V 49 V 50 V 51 V 52 53 V 54 1 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254155 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254155 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254155 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254156 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254156 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254156 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747655 <dec> 0.492127695800228 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747655 <dec> - 0.332285607264471 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097735 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254157 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254158 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254158 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254158 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.10	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 209715202 <dec> ON (Def) ON (Def) ON (Def) ON (Def) ON (Def)	
	ET=+ UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 HF_CPR_MX BAND 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 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	HC182289 209715202 <dec> 3 <dec> 227 <dec> (Def) 0.75 V 4 mA 0.65 V 3 mA 0.82 V 2.5 mA 0.8 V 1.9 mA 0.65 V 3 mA 227 <dec> (Def) 0.75 V 4 mA 0.65 V 3 mA 0.77 V 3 mA 0.9 V 1.55 mA 0.75 V 2.5 mA ON (Def) CLOSE (Def)	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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_DPACT_C HP174191 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Configure the FCU-subsystem (prime)	17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 2.33311965555555 mV 15 mA 2.33311965555555 mV 15 mA -1.07 V 0.424075725085129 mA - 0.387814234177072 mA	
	ET=+ UT=+00.00.03	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 209715202 <dec> 8.3 mA	
	ET=+ 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 209715202 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747656 <dec> 0.424075725085129 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747656 <dec> - 0.387814234177072 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097736 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097736 <dec> 17 <dec> 4062274807 <dec> 4063377641 <dec> 2 <dec> 0 A (Def) 64 V 65 V 66 V 67 V 68 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	69 V 70 71 V 72 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk <i>Subsch. ID : 70</i> Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254159 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254159 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254159 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254160 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254160 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254160 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747657 <dec> 0.424075725085129 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747657 <dec> - 0.387814234177072 mA	
	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 257097737 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097737 <dec> 17 <dec> 4062274807 <dec> 4063377641 <dec> 2 <dec> 0 A (Def) 73 V 74 V 75 V 76 V 77 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	78 V 79 80 V 81 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk Subsch. ID : 70 Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HIFI_CH1_DPACT_C HC097289 213254161 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HIFI_CV1_DPACT_C HC100289 213254161 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HIFI_scan_diplexer HC106289 213254161 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254162 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254162 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254162 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747658 <dec> 0.424075725085129 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747658 <dec> - 0.387814234177072 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097738 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097738 <dec> 17 <dec> 4062274807 <dec> 4063377641 <dec> 2 <dec> 0 A (Def) 82 V 83 V 84 V 85 V 86 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	87 V 88 89 V 90 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254163 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254163 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254163 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254164 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254164 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254164 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747659 <dec> 0.424075725085129 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747659 <dec> - 0.387814234177072 mA	
	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 257097739 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097739 <dec> 17 <dec> 4062274807 <dec> 4063377641 <dec> 2 <dec> 0 A (Def) 91 V 92 V 93 V 94 V 95 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	96 V 97 98 V 99 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254165 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254165 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254165 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254166 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254166 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254166 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747660 <dec> 0.424075725085129 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747660 <dec> - 0.387814234177072 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097740 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097740 <dec> HL_freq_nx HP436194 17 <dec> HL_LSU_main HP438194 4062274807 <dec> HL_LSU_offset HP439194 4063377641 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 100 V HL_M2_3B_V HP333194 101 V HL_M3_3B_V HP334194 102 V HL_Gate1_3B_V HP335194 103 V HL_Gate2_3B_V HP336194 104 V HL_Drain1_3B_V HP337194 105 V HL_Curlim1 HP290194 106 HL_Drain2_3B_V HP338194 107 V HL_Curlim2 HP291194 108 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	HC040289 257097740 <dec> 17 <dec> 4062274807 <dec> 4063377641 <dec> 2 <dec> 0 A (Def) 100 V 101 V 102 V 103 V 104 V 105 V 106 107 V 108 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254167 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254167 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254167 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254167 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254168 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254168 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254168 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747661 <dec> 0.424075725085129 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747661 <dec> - 0.387814234177072 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097741 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097741 <dec> 17 <dec> 4062274807 <dec> 4063377641 <dec> 2 <dec> 0 A (Def) 109 V 110 V 111 V 112 V 113 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254170 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254170 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254170 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747662 <dec> 0.424075725085129 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747662 <dec> - 0.387814234177072 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097742 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097742 <dec> HL_freq_nx HP436194 17 <dec> HL_LSU_main HP438194 4062274807 <dec> HL_LSU_offset HP439194 4063377641 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 118 V HL_M2_3B_V HP333194 119 V HL_M3_3B_V HP334194 120 V HL_Gate1_3B_V HP335194 121 V HL_Gate2_3B_V HP336194 122 V	HC040289 257097742 <dec> 17 <dec> 4062274807 <dec> 4063377641 <dec> 2 <dec> 0 A (Def) 118 V 119 V 120 V 121 V 122 V	
		HL_Drain1_3B_V HP337194 123 V HL_Curlim1 HP290194 124 HL_Drain2_3B_V HP338194 125 V HL_Curlim2 HP291194 126 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	123 V 124 125 V 126 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254171 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254171 <dec> 2.24 mA	

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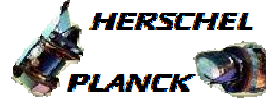
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254171 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254171 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254172 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254172 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 213254172 <dec> HIF_Nsteps HP054197 61 <dec> HIF_step_time HP055197 0.1 s HF_CH1_DPACT0_C HP175191 2.24 mA HF_CV1_DPACT0_C HP190191 2.24 mA HIF_dpact_step_C HP062191 -0.073 mA Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289	
	ET=+ UT=+00.00.10	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 209715203 <dec> HF_CPR_Mixer_H_S HP203191 ON (Def) HF_CPR_Mixer_V_S HP204191 ON (Def) HF_CPR_Chopper_S HP205191 ON (Def) HF_CPR_UCH_S HP206191 ON (Def) HF_CPR_UCV_S HP207191 ON (Def) Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289	
	ET=+ UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 209715203 <dec> HF_CPR_MX BAND HP202191 3 <dec> HF_CH1_DPFPF1 HP176191 227 <dec> (Def) HF_CH2_FIF1_Drain_V HP177191 0.75 V HF_CH2_FIF1_Drain_C HP178191 4 mA HF_CH2_FIF2_Drain_V HP179191 0.65 V HF_CH2_FIF2_Drain_C HP180191 3 mA HF_CH2_SIF1_Drain_V HP181191 0.82 V HF_CH2_SIF1_Drain_C HP182191 2.5 mA HF_CH2_SIF2_Drain_V HP183191 0.8 V HF_CH2_SIF2_Drain_C HP184191 1.9 mA HF_CH2_SIF3_Drain_V HP185191 0.65 V HF_CH2_SIF3_Drain_C HP186191 3 mA HF_CV1_DPFPF1 HP191191 227 <dec> (Def) HF_CV2_FIF1_Drain_V HP192191 0.75 V HF_CV2_FIF1_Drain_C HP193191 4 mA HF_CV2_FIF2_Drain_V HP194191 0.65 V HF_CV2_FIF2_Drain_C HP195191 3 mA HF_CV2_SIF1_Drain_V HP196191 0.77 V HF_CV2_SIF1_Drain_C HP197191 3 mA HF_CV2_SIF2_Drain_V HP198191 0.9 V HF_CV2_SIF2_Drain_C HP199191 1.55 mA HF_CV2_SIF3_Drain_V HP200191 0.75 V HF_CV2_SIF3_Drain_C HP201191 2.5 mA HF_CPR_CH_SINE_S HP211191 ON (Def) HF_CPR_CH_LOOP_S HP210191 CLOSE (Def)	HC182289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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_DPACT_C HP174191 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Configure the FCU-subsystem (prime)	17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 2.33568376111111 mV 15 mA 2.33568376111111 mV 15 mA -1.07 V 0.356023606923947 mA - 0.443342981401818 mA	
	ET=+ UT=+00.00.03	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 209715203 <dec> 8.3 mA	
	ET=+ 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 209715203 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747663 <dec> 0.356023606923947 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747663 <dec> - 0.443342981401818 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097743 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097743 <dec> 17 <dec> 4062274552 <dec> 4063377639 <dec> 2 <dec> 0 A (Def) 127 V 128 V 129 V 130 V 131 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	132 V 133 134 V 135 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk <i>Subsch. ID : 70</i> Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254173 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254173 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254173 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254174 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254174 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254174 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747664 <dec> 0.356023606923947 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747664 <dec> - 0.443342981401818 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097744 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097744 <dec> 17 <dec> 4062274552 <dec> 4063377639 <dec> 2 <dec> 0 A (Def) 136 V 137 V 138 V 139 V 140 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254176 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254176 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254176 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747665 <dec> 0.356023606923947 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747665 <dec> - 0.443342981401818 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097745 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194 HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	HC040289 257097745 <dec> 17 <dec> 4062274552 <dec> 4063377639 <dec> 2 <dec> 0.0 A (Def) 145 146 147 148 149 150 151 152 153 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254177 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254177 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254177 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254178 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254178 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254178 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747666 <dec> 0.356023606923947 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747666 <dec> - 0.443342981401818 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097746 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097746 <dec> 17 <dec> 4062274552 <dec> 4063377639 <dec> 2 <dec> 0 A (Def) 154 V 155 V 156 V 157 V 158 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254180 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254180 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254180 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747667 <dec> 0.356023606923947 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747667 <dec> - 0.443342981401818 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097747 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194 HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	HC040289 257097747 <dec> 17 <dec> 4062274552 <dec> 4063377639 <dec> 2 <dec> 0 A (Def) 163 V 164 V 165 V 166 V 167 V 168 V 169 170 V 171 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254181 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254181 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254181 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254182 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254182 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254182 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747668 <dec> 0.356023606923947 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747668 <dec> - 0.443342981401818 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097748 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097748 <dec> 17 <dec> 4062274552 <dec> 4063377639 <dec> 2 <dec> 0 A (Def) 172 V 173 V 174 V 175 V 176 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254184 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254184 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254184 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747669 <dec> 0.356023606923947 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747669 <dec> - 0.443342981401818 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097749 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097749 <dec> HL_freq_nx HP436194 17 <dec> HL_LSU_main HP438194 4062274552 <dec> HL_LSU_offset HP439194 4063377639 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 181 V HL_M2_3B_V HP333194 182 V HL_M3_3B_V HP334194 183 V HL_Gate1_3B_V HP335194 184 V HL_Gate2_3B_V HP336194 185 V	HC040289 257097749 <dec> 17 <dec> 4062274552 <dec> 4063377639 <dec> 2 <dec> 0 A (Def) 181 V 182 V 183 V 184 V 185 V	
		HL_Drain1_3B_V HP337194 186 V HL_Curlim1 HP290194 187 HL_Drain2_3B_V HP338194 188 V HL_Curlim2 HP291194 189 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	186 V 187 188 V 189 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254185 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254185 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254185 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254185 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254186 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254186 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 213254186 <dec> HIF_Nsteps HP054197 61 <dec> HIF_step_time HP055197 0.1 s HF_CH1_DPACT0_C HP175191 2.24 mA HF_CV1_DPACT0_C HP190191 2.24 mA HIF_dpact_step_C HP062191 -0.073 mA Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289	
	ET=+ UT=+00.00.10	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 209715204 <dec> HF_CPR_Mixer_H_S HP203191 ON (Def) HF_CPR_Mixer_V_S HP204191 ON (Def) HF_CPR_Chopper_S HP205191 ON (Def) HF_CPR_UCH_S HP206191 ON (Def) HF_CPR_UCV_S HP207191 ON (Def) Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289	
	ET=+ UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 209715204 <dec> HF_CPR_MXBAND HP202191 3 <dec> HF_CH1_DPFPF1 HP176191 227 <dec> (Def) HF_CH2_FIF1_Drain_V HP177191 0.75 V HF_CH2_FIF1_Drain_C HP178191 4 mA HF_CH2_FIF2_Drain_V HP179191 0.65 V HF_CH2_FIF2_Drain_C HP180191 3 mA HF_CH2_SIF1_Drain_V HP181191 0.82 V HF_CH2_SIF1_Drain_C HP182191 2.5 mA HF_CH2_SIF2_Drain_V HP183191 0.8 V HF_CH2_SIF2_Drain_C HP184191 1.9 mA HF_CH2_SIF3_Drain_V HP185191 0.65 V HF_CH2_SIF3_Drain_C HP186191 3 mA HF_CV1_DPFPF1 HP191191 227 <dec> (Def) HF_CV2_FIF1_Drain_V HP192191 0.75 V HF_CV2_FIF1_Drain_C HP193191 4 mA HF_CV2_FIF2_Drain_V HP194191 0.65 V HF_CV2_FIF2_Drain_C HP195191 3 mA HF_CV2_SIF1_Drain_V HP196191 0.77 V HF_CV2_SIF1_Drain_C HP197191 3 mA HF_CV2_SIF2_Drain_V HP198191 0.9 V HF_CV2_SIF2_Drain_C HP199191 1.55 mA HF_CV2_SIF3_Drain_V HP200191 0.75 V HF_CV2_SIF3_Drain_C HP201191 2.5 mA HF_CPR_CH_SINE_S HP211191 ON (Def) HF_CPR_CH_LOOP_S HP210191 CLOSE (Def)	HC182289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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_DPACT_C HP174191 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Configure the FCU-subsystem (prime)	17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 2.33824786111111 mV 15 mA 2.33824786111111 mV 15 mA -1.07 V 0.287971636208849 mA - 0.498871608314419 mA	
	ET=+ UT=+00.00.03	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 209715204 <dec> 8.3 mA	
	ET=+ 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 209715204 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747670 <dec> 0.287971636208849 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747670 <dec> - 0.498871608314419 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097750 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097750 <dec> 17 <dec> 4062274804 <dec> 4063377897 <dec> 2 <dec> 0 A (Def) 190 V 191 V 192 V 193 V 194 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	195 V 196 197 V 198 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk <i>Subsch. ID : 70</i> Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254187 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254187 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254187 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254188 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254188 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254188 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747671 <dec> 0.287971636208849 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747671 <dec> - 0.498871608314419 mA	
	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 257097751 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097751 <dec> 17 <dec> 4062274804 <dec> 4063377897 <dec> 2 <dec> 0.0 A (Def) 199 200 201 202 203	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254190 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254190 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254190 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747672 <dec> 0.287971636208849 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747672 <dec> - 0.498871608314419 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097752 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097752 <dec> HL_freq_nx HP436194 17 <dec> HL_LSU_main HP438194 4062274804 <dec> HL_LSU_offset HP439194 4063377897 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 208 V HL_M2_3B_V HP333194 209 V HL_M3_3B_V HP334194 210 V HL_Gate1_3B_V HP335194 211 V HL_Gate2_3B_V HP336194 212 V	HC040289 257097752 <dec> 17 <dec> 4062274804 <dec> 4063377897 <dec> 2 <dec> 0 A (Def) 208 V 209 V 210 V 211 V 212 V	
		HL_Drain1_3B_V HP337194 213 V HL_Curlim1 HP290194 214 HL_Drain2_3B_V HP338194 215 V HL_Curlim2 HP291194 216 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	213 V 214 215 V 216 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254191 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254191 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254191 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254191 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254192 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254192 <dec> 2.24 mA	

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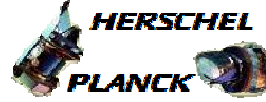
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254192 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747673 <dec> 0.287971636208849 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747673 <dec> - 0.498871608314419 mA	
	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 257097753 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097753 <dec> 17 <dec> 4062274804 <dec> 4063377897 <dec> 2 <dec> 0 A (Def) 217 V 218 V 219 V 220 V 221 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254194 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254194 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254194 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747674 <dec> 0.287971636208849 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747674 <dec> - 0.498871608314419 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097754 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097754 <dec> HL_freq_nx HP436194 17 <dec> HL_LSU_main HP438194 4062274804 <dec> HL_LSU_offset HP439194 4063377897 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0.0 A (Def) HL_M1_3B_V HP332194 226 HL_M2_3B_V HP333194 227 HL_M3_3B_V HP334194 228 HL_Gate1_3B_V HP335194 229 HL_Gate2_3B_V HP336194 230 HL_Drain1_3B_V HP337194 231 HL_Curlim1 HP290194 232 HL_Drain2_3B_V HP338194 233 HL_Curlim2 HP291194 234 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	HC040289 257097754 <dec> 17 <dec> 4062274804 <dec> 4063377897 <dec> 2 <dec> 0.0 A (Def) 226 227 228 229 230 231 232 233 234 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254195 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254195 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254195 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254195 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254196 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254196 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254196 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747675 <dec> 0.287971636208849 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747675 <dec> - 0.498871608314419 mA	
	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 257097755 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097755 <dec> 17 <dec> 4062274804 <dec> 4063377897 <dec> 2 <dec> 0 A (Def) 235 V 236 V 237 V 238 V 239 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	240 V 241 242 V 243 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254197 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254197 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254197 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254198 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254198 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254198 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747676 <dec> 0.287971636208849 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747676 <dec> - 0.498871608314419 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097756 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097756 <dec> HL_freq_nx HP436194 17 <dec> HL_LSU_main HP438194 4062274804 <dec> HL_LSU_offset HP439194 4063377897 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 244 V HL_M2_3B_V HP333194 245 V HL_M3_3B_V HP334194 246 V HL_Gate1_3B_V HP335194 247 V HL_Gate2_3B_V HP336194 248 V	HC040289 257097756 <dec> 17 <dec> 4062274804 <dec> 4063377897 <dec> 2 <dec> 0 A (Def) 244 V 245 V 246 V 247 V 248 V	
		HL_Drain1_3B_V HP337194 249 V HL_Curlim1 HP290194 250 HL_Drain2_3B_V HP338194 251 V HL_Curlim2 HP291194 252 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	249 V 250 251 V 252 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254199 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254199 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254199 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254199 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254200 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254200 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 213254200 <dec> HIF_Nsteps HP054197 61 <dec> HIF_step_time HP055197 0.1 s HF_CH1_DPACT0_C HP175191 2.24 mA HF_CV1_DPACT0_C HP190191 2.24 mA HIF_dpact_step_C HP062191 -0.073 mA Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289	
	ET=+ UT=+00.00.10	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 209715205 <dec> HF_CPR_Mixer_H_S HP203191 ON (Def) HF_CPR_Mixer_V_S HP204191 ON (Def) HF_CPR_Chopper_S HP205191 ON (Def) HF_CPR_UCH_S HP206191 ON (Def) HF_CPR_UCV_S HP207191 ON (Def) Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289	
	ET=+ UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 209715205 <dec> HF_CPR_MX BAND HP202191 3 <dec> HF_CH1_DPFPF1 HP176191 227 <dec> (Def) HF_CH2_FIF1_Drain_V HP177191 0.75 V HF_CH2_FIF1_Drain_C HP178191 4 mA HF_CH2_FIF2_Drain_V HP179191 0.65 V HF_CH2_FIF2_Drain_C HP180191 3 mA HF_CH2_SIF1_Drain_V HP181191 0.82 V HF_CH2_SIF1_Drain_C HP182191 2.5 mA HF_CH2_SIF2_Drain_V HP183191 0.8 V HF_CH2_SIF2_Drain_C HP184191 1.9 mA HF_CH2_SIF3_Drain_V HP185191 0.65 V HF_CH2_SIF3_Drain_C HP186191 3 mA HF_CV1_DPFPF1 HP191191 227 <dec> (Def) HF_CV2_FIF1_Drain_V HP192191 0.75 V HF_CV2_FIF1_Drain_C HP193191 4 mA HF_CV2_FIF2_Drain_V HP194191 0.65 V HF_CV2_FIF2_Drain_C HP195191 3 mA HF_CV2_SIF1_Drain_V HP196191 0.77 V HF_CV2_SIF1_Drain_C HP197191 3 mA HF_CV2_SIF2_Drain_V HP198191 0.9 V HF_CV2_SIF2_Drain_C HP199191 1.55 mA HF_CV2_SIF3_Drain_V HP200191 0.75 V HF_CV2_SIF3_Drain_C HP201191 2.5 mA HF_CPR_CH_SINE_S HP211191 ON (Def) HF_CPR_CH_LOOP_S HP210191 CLOSE (Def)	HC182289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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_DPACT_C HP174191 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Configure the FCU-subsystem (prime)	17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 2.34081196666666 mV 15 mA 2.34081196666666 mV 15 mA -1.07 V 0.219919518047683 mA - 0.554400355539151 mA	
	ET=+ UT=+00.00.03	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 209715205 <dec> 8.3 mA	
	ET=+ 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 209715205 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747677 <dec> 0.219919518047683 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747677 <dec> - 0.554400355539151 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097757 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097757 <dec> 18 <dec> 4062274549 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 253 V 254 V 255 V 256 V 257 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	258 V 259 260 V 261 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk <i>Subsch. ID : 70</i> Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

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 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254201 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254201 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254201 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254202 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254202 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254202 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747678 <dec> 0.219919518047683 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747678 <dec> - 0.554400355539151 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097758 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097758 <dec> 18 <dec> 4062274549 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 262 V 263 V 264 V 265 V 266 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	267 V 268 269 V 270 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254203 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254203 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254203 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254204 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254204 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254204 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747679 <dec> 0.219919518047683 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747679 <dec> - 0.554400355539151 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097759 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097759 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062274549 <dec> HL_LSU_offset HP439194 4063377895 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 271 V HL_M2_3B_V HP333194 272 V HL_M3_3B_V HP334194 273 V HL_Gate1_3B_V HP335194 274 V HL_Gate2_3B_V HP336194 275 V	HC040289 257097759 <dec> 18 <dec> 4062274549 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 271 V 272 V 273 V 274 V 275 V	
		HL_Drain1_3B_V HP337194 276 V HL_Curlim1 HP290194 277 HL_Drain2_3B_V HP338194 278 V HL_Curlim2 HP291194 279 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	276 V 277 278 V 279 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254205 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254205 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254205 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254205 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254206 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254206 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254206 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747680 <dec> 0.219919518047683 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747680 <dec> - 0.554400355539151 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097760 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097760 <dec> 18 <dec> 4062274549 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 280 V 281 V 282 V 283 V 284 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254208 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254208 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254208 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747681 <dec> 0.219919518047683 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747681 <dec> - 0.554400355539151 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097761 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097761 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062274549 <dec> HL_LSU_offset HP439194 4063377895 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 289 V HL_M2_3B_V HP333194 290 V HL_M3_3B_V HP334194 291 V HL_Gate1_3B_V HP335194 292 V HL_Gate2_3B_V HP336194 293 V HL_Drain1_3B_V HP337194 294 V HL_Curlim1 HP290194 295 HL_Drain2_3B_V HP338194 296 V HL_Curlim2 HP291194 297 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	HC040289 257097761 <dec> 18 <dec> 4062274549 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 289 V 290 V 291 V 292 V 293 V 294 V 295 296 V 297 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254209 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254209 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254209 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254209 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254210 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254210 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254210 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747682 <dec> 0.219919518047683 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747682 <dec> - 0.554400355539151 mA	
	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 257097762 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097762 <dec> 18 <dec> 4062274549 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 298 V 299 V 300 V 301 V 302 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254212 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254212 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254212 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747683 <dec> 0.219919518047683 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747683 <dec> - 0.554400355539151 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097763 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097763 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062274549 <dec> HL_LSU_offset HP439194 4063377895 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 307 V HL_M2_3B_V HP333194 308 V HL_M3_3B_V HP334194 309 V HL_Gate1_3B_V HP335194 310 V HL_Gate2_3B_V HP336194 311 V	HC040289 257097763 <dec> 18 <dec> 4062274549 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 307 V 308 V 309 V 310 V 311 V	
		HL_Drain1_3B_V HP337194 312 V HL_Curlim1 HP290194 313 HL_Drain2_3B_V HP338194 314 V HL_Curlim2 HP291194 315 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	312 V 313 314 V 315 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254213 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254213 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254213 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254213 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254214 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254214 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 213254214 <dec> HIF_Nsteps HP054197 61 <dec> HIF_step_time HP055197 0.1 s HF_CH1_DPACT0_C HP175191 2.24 mA HF_CV1_DPACT0_C HP190191 2.24 mA HIF_dpact_step_C HP062191 -0.073 mA Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289	
	ET=+ UT=+00.00.10	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 209715206 <dec> HF_CPR_Mixer_H_S HP203191 ON (Def) HF_CPR_Mixer_V_S HP204191 ON (Def) HF_CPR_Chopper_S HP205191 ON (Def) HF_CPR_UCH_S HP206191 ON (Def) HF_CPR_UCV_S HP207191 ON (Def) Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289	
	ET=+ UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 209715206 <dec> HF_CPR_MX BAND HP202191 3 <dec> HF_CH1_DPFPF1 HP176191 227 <dec> (Def) HF_CH2_FIF1_Drain_V HP177191 0.75 V HF_CH2_FIF1_Drain_C HP178191 4 mA HF_CH2_FIF2_Drain_V HP179191 0.65 V HF_CH2_FIF2_Drain_C HP180191 3 mA HF_CH2_SIF1_Drain_V HP181191 0.82 V HF_CH2_SIF1_Drain_C HP182191 2.5 mA HF_CH2_SIF2_Drain_V HP183191 0.8 V HF_CH2_SIF2_Drain_C HP184191 1.9 mA HF_CH2_SIF3_Drain_V HP185191 0.65 V HF_CH2_SIF3_Drain_C HP186191 3 mA HF_CV1_DPFPF1 HP191191 227 <dec> (Def) HF_CV2_FIF1_Drain_V HP192191 0.75 V HF_CV2_FIF1_Drain_C HP193191 4 mA HF_CV2_FIF2_Drain_V HP194191 0.65 V HF_CV2_FIF2_Drain_C HP195191 3 mA HF_CV2_SIF1_Drain_V HP196191 0.77 V HF_CV2_SIF1_Drain_C HP197191 3 mA HF_CV2_SIF2_Drain_V HP198191 0.9 V HF_CV2_SIF2_Drain_C HP199191 1.55 mA HF_CV2_SIF3_Drain_V HP200191 0.75 V HF_CV2_SIF3_Drain_C HP201191 2.5 mA HF_CPR_CH_SINE_S HP211191 ON (Def) HF_CPR_CH_LOOP_S HP210191 CLOSE (Def)	HC182289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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_DPACT_C HP174191 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Configure the FCU-subsystem (prime)	17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 2.34337606666666 mV 15 mA 2.34337606666666 mV 15 mA -1.07 V 0.151867547332585 mA - 0.609928982451752 mA	
	ET=+ UT=+00.00.03	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 209715206 <dec> 8.3 mA	
	ET=+ 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 209715206 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747684 <dec> 0.151867547332585 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747684 <dec> - 0.609928982451752 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097764 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097764 <dec> 18 <dec> 4062274293 <dec> 4063377892 <dec> 2 <dec> 0 A (Def) 316 V 317 V 318 V 319 V 320 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	321 V 322 323 V 324 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk <i>Subsch. ID : 70</i> Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254215 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254215 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254215 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254216 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254216 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254216 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747685 <dec> 0.151867547332585 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747685 <dec> - 0.609928982451752 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097765 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097765 <dec> 18 <dec> 4062274293 <dec> 4063377892 <dec> 2 <dec> 0 A (Def) 325 V 326 V 327 V 328 V 329 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	330 V 331 332 V 333 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254217 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254217 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254217 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254218 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254218 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254218 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747686 <dec> 0.151867547332585 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747686 <dec> - 0.609928982451752 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097766 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194 HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	HC040289 257097766 <dec> 18 <dec> 4062274293 <dec> 4063377892 <dec> 2 <dec> 0 A (Def) 334 V 335 V 336 V 337 V 338 V 339 V 340 341 V 342 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254219 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254219 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254219 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254220 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254220 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254220 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747687 <dec> 0.151867547332585 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747687 <dec> - 0.609928982451752 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097767 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097767 <dec> 18 <dec> 4062274293 <dec> 4063377892 <dec> 2 <dec> 0 A (Def) 343 V 344 V 345 V 346 V 347 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254222 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254222 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254222 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747688 <dec> 0.151867547332585 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747688 <dec> - 0.609928982451752 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097768 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097768 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062274293 <dec> HL_LSU_offset HP439194 4063377892 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 352 V HL_M2_3B_V HP333194 353 V HL_M3_3B_V HP334194 354 V HL_Gate1_3B_V HP335194 355 V HL_Gate2_3B_V HP336194 356 V	HC040289 257097768 <dec> 18 <dec> 4062274293 <dec> 4063377892 <dec> 2 <dec> 0 A (Def) 352 V 353 V 354 V 355 V 356 V	
		HL_Drain1_3B_V HP337194 357 V HL_Curlim1 HP290194 358 HL_Drain2_3B_V HP338194 359 V HL_Curlim2 HP291194 360 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	357 V 358 359 V 360 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254223 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254223 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254223 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254223 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254224 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254224 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254224 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747689 <dec> 0.151867547332585 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747689 <dec> - 0.609928982451752 mA	
	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 257097769 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097769 <dec> 18 <dec> 4062274293 <dec> 4063377892 <dec> 2 <dec> 0 A (Def) 361 V 362 V 363 V 364 V 365 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	366 V 367 368 V 369 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254225 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254225 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254225 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254226 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254226 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254226 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747690 <dec> 0.151867547332585 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747690 <dec> - 0.609928982451752 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097770 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097770 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062274293 <dec> HL_LSU_offset HP439194 4063377892 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 370 V HL_M2_3B_V HP333194 371 V HL_M3_3B_V HP334194 372 V HL_Gate1_3B_V HP335194 373 V HL_Gate2_3B_V HP336194 374 V HL_Drain1_3B_V HP337194 375 V HL_Curlim1 HP290194 376 HL_Drain2_3B_V HP338194 377 V HL_Curlim2 HP291194 378 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	HC040289 257097770 <dec> 18 <dec> 4062274293 <dec> 4063377892 <dec> 2 <dec> 0 A (Def) 370 V 371 V 372 V 373 V 374 V 375 V 376 377 V 378 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254227 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254227 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254227 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254227 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254228 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254228 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 213254228 <dec> HIF_Nsteps HP054197 61 <dec> HIF_step_time HP055197 0.1 s HF_CH1_DPACT0_C HP175191 2.24 mA HF_CV1_DPACT0_C HP190191 2.24 mA HIF_dpact_step_C HP062191 -0.073 mA Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289	
	ET=+ UT=+00.00.10	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 209715207 <dec> HF_CPR_Mixer_H_S HP203191 ON (Def) HF_CPR_Mixer_V_S HP204191 ON (Def) HF_CPR_Chopper_S HP205191 ON (Def) HF_CPR_UCH_S HP206191 ON (Def) HF_CPR_UCV_S HP207191 ON (Def) Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289	
	ET=+ UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 209715207 <dec> HF_CPR_MX BAND HP202191 3 <dec> HF_CH1_DPFPF1 HP176191 227 <dec> (Def) HF_CH2_FIF1_Drain_V HP177191 0.75 V HF_CH2_FIF1_Drain_C HP178191 4 mA HF_CH2_FIF2_Drain_V HP179191 0.65 V HF_CH2_FIF2_Drain_C HP180191 3 mA HF_CH2_SIF1_Drain_V HP181191 0.82 V HF_CH2_SIF1_Drain_C HP182191 2.5 mA HF_CH2_SIF2_Drain_V HP183191 0.8 V HF_CH2_SIF2_Drain_C HP184191 1.9 mA HF_CH2_SIF3_Drain_V HP185191 0.65 V HF_CH2_SIF3_Drain_C HP186191 3 mA HF_CV1_DPFPF1 HP191191 227 <dec> (Def) HF_CV2_FIF1_Drain_V HP192191 0.75 V HF_CV2_FIF1_Drain_C HP193191 4 mA HF_CV2_FIF2_Drain_V HP194191 0.65 V HF_CV2_FIF2_Drain_C HP195191 3 mA HF_CV2_SIF1_Drain_V HP196191 0.77 V HF_CV2_SIF1_Drain_C HP197191 3 mA HF_CV2_SIF2_Drain_V HP198191 0.9 V HF_CV2_SIF2_Drain_C HP199191 1.55 mA HF_CV2_SIF3_Drain_V HP200191 0.75 V HF_CV2_SIF3_Drain_C HP201191 2.5 mA HF_CPR_CH_SINE_S HP211191 ON (Def) HF_CPR_CH_LOOP_S HP210191 CLOSE (Def)	HC182289	

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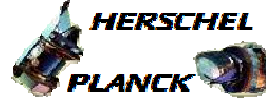
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HF_CPR_CHFPG1 HP212191 HF_CPR_CHFPG2 HP213191 HF_CPR_CHFPZ1 HP214191 HF_CPR_CHFPZ2 HP215191 HF_CPR_CHFPP2 HP216191 HF_CPR_Cal_Heater_C HP217191 HF_CH1_MXBIAS_V HP172191 HF_CH1_MX_MG_C HP173191 HF_CV1_MXBIAS_V HP187191 HF_CV1_MX_MG_C HP188191 HF_P_Chopper_Rot HP454191 HF_CH1_DPACT_C HP174191 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Configure the FCU-subsystem (prime)	17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 2.3459401722222 mV 15 mA 2.3459401722222 mV 15 mA -1.07 V 8.38154291714031E- 02 mA - 0.665457729676498 mA	
	ET=+ UT=+00.00.03	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 209715207 <dec> 8.3 mA	
	ET=+ 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 209715207 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747691 <dec> 8.38154291714031E- 02 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747691 <dec> - 0.665457729676498 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097771 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097771 <dec> 18 <dec> 4062274038 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 379 V 380 V 381 V 382 V 383 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	384 V 385 386 V 387 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk <i>Subsch. ID : 70</i> Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254229 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254229 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254229 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254230 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254230 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254230 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747692 <dec> 8.38154291714031E 02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747692 <dec> - 0.665457729676498 mA	
	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 257097772 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097772 <dec> 18 <dec> 4062274038 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 388 V 389 V 390 V 391 V 392 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254232 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254232 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254232 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747693 <dec> 8.38154291714031E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747693 <dec> - 0.665457729676498 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097773 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097773 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062274038 <dec> HL_LSU_offset HP439194 4063377890 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 397 V HL_M2_3B_V HP333194 398 V HL_M3_3B_V HP334194 399 V HL_Gate1_3B_V HP335194 400 V HL_Gate2_3B_V HP336194 401 V	HC040289 257097773 <dec> 18 <dec> 4062274038 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 397 V 398 V 399 V 400 V 401 V	
		HL_Drain1_3B_V HP337194 402 V HL_Curlim1 HP290194 403 HL_Drain2_3B_V HP338194 404 V HL_Curlim2 HP291194 405 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	402 V 403 404 V 405 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254233 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254233 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254233 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254233 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254234 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254234 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254234 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747694 <dec> 8.38154291714031E 02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747694 <dec> - 0.665457729676498 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097774 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097774 <dec> 18 <dec> 4062274038 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 406 V 407 V 408 V 409 V 410 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	411 V 412 413 V 414 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254235 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254235 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254235 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254236 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254236 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254236 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747695 <dec> 8.38154291714031E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747695 <dec> - 0.665457729676498 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097775 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097775 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062274038 <dec> HL_LSU_offset HP439194 4063377890 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 415 V HL_M2_3B_V HP333194 416 V HL_M3_3B_V HP334194 417 V HL_Gate1_3B_V HP335194 418 V HL_Gate2_3B_V HP336194 419 V	HC040289 257097775 <dec> 18 <dec> 4062274038 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 415 V 416 V 417 V 418 V 419 V	
		HL_Drain1_3B_V HP337194 420 V HL_Curlim1 HP290194 421 HL_Drain2_3B_V HP338194 422 V HL_Curlim2 HP291194 423 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	420 V 421 422 V 423 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254237 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254237 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254237 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254237 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254238 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254238 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254238 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747696 <dec> 8.38154291714031E 02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747696 <dec> - 0.665457729676498 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097776 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097776 <dec> 18 <dec> 4062274038 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 424 V 425 V 426 V 427 V 428 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254240 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254240 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254240 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747697 <dec> 8.38154291714031E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747697 <dec> - 0.665457729676498 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097777 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194 HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	HC040289 257097777 <dec> 18 <dec> 4062274038 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 433 V 434 V 435 V 436 V 437 V 438 V 439 440 V 441 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254241 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254241 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254241 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254242 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254242 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 213254242 <dec> HIF_Nsteps HP054197 61 <dec> HIF_step_time HP055197 0.1 s HF_CH1_DPACT0_C HP175191 2.24 mA HF_CV1_DPACT0_C HP190191 2.24 mA HIF_dpact_step_C HP062191 -0.073 mA Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289	
	ET=+ UT=+00.00.10	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 209715208 <dec> HF_CPR_Mixer_H_S HP203191 ON (Def) HF_CPR_Mixer_V_S HP204191 ON (Def) HF_CPR_Chopper_S HP205191 ON (Def) HF_CPR_UCH_S HP206191 ON (Def) HF_CPR_UCV_S HP207191 ON (Def) Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289	
	ET=+ UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 209715208 <dec> HF_CPR_MX BAND HP202191 3 <dec> HF_CH1_DPFPF1 HP176191 227 <dec> (Def) HF_CH2_FIF1_Drain_V HP177191 0.75 V HF_CH2_FIF1_Drain_C HP178191 4 mA HF_CH2_FIF2_Drain_V HP179191 0.65 V HF_CH2_FIF2_Drain_C HP180191 3 mA HF_CH2_SIF1_Drain_V HP181191 0.82 V HF_CH2_SIF1_Drain_C HP182191 2.5 mA HF_CH2_SIF2_Drain_V HP183191 0.8 V HF_CH2_SIF2_Drain_C HP184191 1.9 mA HF_CH2_SIF3_Drain_V HP185191 0.65 V HF_CH2_SIF3_Drain_C HP186191 3 mA HF_CV1_DPFPF1 HP191191 227 <dec> (Def) HF_CV2_FIF1_Drain_V HP192191 0.75 V HF_CV2_FIF1_Drain_C HP193191 4 mA HF_CV2_FIF2_Drain_V HP194191 0.65 V HF_CV2_FIF2_Drain_C HP195191 3 mA HF_CV2_SIF1_Drain_V HP196191 0.77 V HF_CV2_SIF1_Drain_C HP197191 3 mA HF_CV2_SIF2_Drain_V HP198191 0.9 V HF_CV2_SIF2_Drain_C HP199191 1.55 mA HF_CV2_SIF3_Drain_V HP200191 0.75 V HF_CV2_SIF3_Drain_C HP201191 2.5 mA HF_CPR_CH_SINE_S HP211191 ON (Def) HF_CPR_CH_LOOP_S HP210191 CLOSE (Def)	HC182289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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_DPACT_C HP174191 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Configure the FCU-subsystem (prime)	17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 2.3485042722222 mV 15 mA 2.3485042722222 mV 15 mA -1.07 V 1.57634584563046E- 02 mA - 0.720986356589099 mA	
	ET=+ UT=+00.00.03	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 209715208 <dec> 8.3 mA	
	ET=+ 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 209715208 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747698 <dec> 1.57634584563046E- 02 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747698 <dec> - 0.720986356589099 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097778 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097778 <dec> 18 <dec> 4062273783 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 442 V 443 V 444 V 445 V 446 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	447 V 448 449 V 450 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk <i>Subsch. ID : 70</i> Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254243 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254243 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254243 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254244 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254244 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254244 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747699 <dec> 1.57634584563046E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747699 <dec> - 0.720986356589099 mA	
	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 257097779 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097779 <dec> 18 <dec> 4062273783 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 451 V 452 V 453 V 454 V 455 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	456 V 457 458 V 459 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254245 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254245 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254245 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254246 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254246 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254246 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747700 <dec> 1.57634584563046E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747700 <dec> - 0.720986356589099 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097780 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097780 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062273783 <dec> HL_LSU_offset HP439194 4063377888 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 460 V HL_M2_3B_V HP333194 461 V HL_M3_3B_V HP334194 462 V HL_Gate1_3B_V HP335194 463 V HL_Gate2_3B_V HP336194 464 V	HC040289 257097780 <dec> 18 <dec> 4062273783 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 460 V 461 V 462 V 463 V 464 V	
		HL_Drain1_3B_V HP337194 465 V HL_Curlim1 HP290194 466 HL_Drain2_3B_V HP338194 467 V HL_Curlim2 HP291194 468 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	465 V 466 467 V 468 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254247 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254247 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254247 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254247 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254248 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254248 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254248 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747701 <dec> 1.57634584563046E 02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747701 <dec> - 0.720986356589099 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097781 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097781 <dec> 18 <dec> 4062273783 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 469 V 470 V 471 V 472 V 473 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254250 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254250 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254250 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747702 <dec> 1.57634584563046E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747702 <dec> - 0.720986356589099 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097782 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097782 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062273783 <dec> HL_LSU_offset HP439194 4063377888 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 478 V HL_M2_3B_V HP333194 479 V HL_M3_3B_V HP334194 480 V HL_Gate1_3B_V HP335194 481 V HL_Gate2_3B_V HP336194 482 V	HC040289 257097782 <dec> 18 <dec> 4062273783 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 478 V 479 V 480 V 481 V 482 V	
		HL_Drain1_3B_V HP337194 483 V HL_Curlim1 HP290194 484 HL_Drain2_3B_V HP338194 485 V HL_Curlim2 HP291194 486 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	483 V 484 485 V 486 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254251 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254251 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254251 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254251 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254252 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254252 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254252 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747703 <dec> 1.57634584563046E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747703 <dec> - 0.720986356589099 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097783 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097783 <dec> 18 <dec> 4062273783 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 487 V 488 V 489 V 490 V 491 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254254 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254254 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254254 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747704 <dec> 1.57634584563046E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747704 <dec> - 0.720986356589099 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097784 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097784 <dec> 18 <dec> 4062273783 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 496 V 497 V 498 V 499 V 500 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	501 V 502 503 V 504 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254255 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254255 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254255 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254256 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254256 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 213254256 <dec> HIF_Nsteps HP054197 61 <dec> HIF_step_time HP055197 0.1 s HF_CH1_DPACT0_C HP175191 2.24 mA HF_CV1_DPACT0_C HP190191 2.24 mA HIF_dpact_step_C HP062191 -0.073 mA Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289	
	ET=+ UT=+00.00.10	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 209715209 <dec> HF_CPR_Mixer_H_S HP203191 ON (Def) HF_CPR_Mixer_V_S HP204191 ON (Def) HF_CPR_Chopper_S HP205191 ON (Def) HF_CPR_UCH_S HP206191 ON (Def) HF_CPR_UCV_S HP207191 ON (Def) Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289	
	ET=+ UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 209715209 <dec> HF_CPR_MX BAND HP202191 3 <dec> HF_CH1_DPFPF1 HP176191 227 <dec> (Def) HF_CH2_FIF1_Drain_V HP177191 0.75 V HF_CH2_FIF1_Drain_C HP178191 4 mA HF_CH2_FIF2_Drain_V HP179191 0.65 V HF_CH2_FIF2_Drain_C HP180191 3 mA HF_CH2_SIF1_Drain_V HP181191 0.82 V HF_CH2_SIF1_Drain_C HP182191 2.5 mA HF_CH2_SIF2_Drain_V HP183191 0.8 V HF_CH2_SIF2_Drain_C HP184191 1.9 mA HF_CH2_SIF3_Drain_V HP185191 0.65 V HF_CH2_SIF3_Drain_C HP186191 3 mA HF_CV1_DPFPF1 HP191191 227 <dec> (Def) HF_CV2_FIF1_Drain_V HP192191 0.75 V HF_CV2_FIF1_Drain_C HP193191 4 mA HF_CV2_FIF2_Drain_V HP194191 0.65 V HF_CV2_FIF2_Drain_C HP195191 3 mA HF_CV2_SIF1_Drain_V HP196191 0.77 V HF_CV2_SIF1_Drain_C HP197191 3 mA HF_CV2_SIF2_Drain_V HP198191 0.9 V HF_CV2_SIF2_Drain_C HP199191 1.55 mA HF_CV2_SIF3_Drain_V HP200191 0.75 V HF_CV2_SIF3_Drain_C HP201191 2.5 mA HF_CPR_CH_SINE_S HP211191 ON (Def) HF_CPR_CH_LOOP_S HP210191 CLOSE (Def)	HC182289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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_DPACT_C HP174191 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Configure the FCU-subsystem (prime)	17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 2.35 mV 15 mA 2.35 mV 15 mA -1.07 V - 5.05666780274074E-02 mA 0.755038648300723 mA	
	ET=+ UT=+00.00.03	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 209715209 <dec> 8.3 mA	
	ET=+ 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 209715209 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747705 <dec> - 5.05666780274074E-02 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747705 <dec> 0.755038648300723 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097785 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097785 <dec> 18 <dec> 4062273527 <dec> 4063377639 <dec> 2 <dec> 0 A (Def) 505 V 506 V 507 V 508 V 509 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	510 V 511 512 V 513 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk <i>Subsch. ID : 70</i> Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254257 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254257 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254257 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254258 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254258 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254258 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747706 <dec> - 5.05666780274074E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747706 <dec> 0.755038648300723 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097786 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097786 <dec> 18 <dec> 4062273527 <dec> 4063377639 <dec> 2 <dec> 0 A (Def) 514 V 515 V 516 V 517 V 518 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	519 V 520 521 V 522 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254259 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254259 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254259 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254260 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254260 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254260 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747707 <dec> - 5.05666780274074E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747707 <dec> 0.755038648300723 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097787 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097787 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062273527 <dec> HL_LSU_offset HP439194 4063377639 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 523 V HL_M2_3B_V HP333194 524 V HL_M3_3B_V HP334194 525 V HL_Gate1_3B_V HP335194 526 V HL_Gate2_3B_V HP336194 527 V	HC040289 257097787 <dec> 18 <dec> 4062273527 <dec> 4063377639 <dec> 2 <dec> 0 A (Def) 523 V 524 V 525 V 526 V 527 V	
		HL_Drain1_3B_V HP337194 528 V HL_Curlim1 HP290194 529 HL_Drain2_3B_V HP338194 530 V HL_Curlim2 HP291194 531 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	528 V 529 530 V 531 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254261 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254261 <dec> 2.24 mA	

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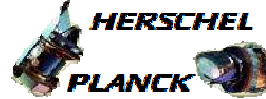
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254261 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254261 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254262 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254262 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254262 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747708 <dec> - 5.05666780274074E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747708 <dec> 0.755038648300723 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097788 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097788 <dec> 18 <dec> 4062273527 <dec> 4063377639 <dec> 2 <dec> 0 A (Def) 532 V 533 V 534 V 535 V 536 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254264 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254264 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254264 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747709 <dec> - 5.05666780274074E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747709 <dec> 0.755038648300723 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097789 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097789 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062273527 <dec> HL_LSU_offset HP439194 4063377639 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 541 V HL_M2_3B_V HP333194 542 V HL_M3_3B_V HP334194 543 V HL_Gate1_3B_V HP335194 544 V HL_Gate2_3B_V HP336194 545 V	HC040289 257097789 <dec> 18 <dec> 4062273527 <dec> 4063377639 <dec> 2 <dec> 0 A (Def) 541 V 542 V 543 V 544 V 545 V	
		HL_Drain1_3B_V HP337194 546 V HL_Curlim1 HP290194 547 HL_Drain2_3B_V HP338194 548 V HL_Curlim2 HP291194 549 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	546 V 547 548 V 549 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254265 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254265 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254265 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254265 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254266 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254266 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254266 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747710 <dec> - 5.05666780274074E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747710 <dec> 0.755038648300723 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097790 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097790 <dec> 18 <dec> 4062273527 <dec> 4063377639 <dec> 2 <dec> 0 A (Def) 550 V 551 V 552 V 553 V 554 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	555 V 556 557 V 558 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254267 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254267 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254267 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254268 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254268 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254268 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747711 <dec> - 5.05666780274074E-02 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747711 <dec> 0.755038648300723 mA	

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 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097791 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097791 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062273527 <dec> HL_LSU_offset HP439194 4063377639 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 559 V HL_M2_3B_V HP333194 560 V HL_M3_3B_V HP334194 561 V HL_Gate1_3B_V HP335194 562 V HL_Gate2_3B_V HP336194 563 V	HC040289 257097791 <dec> 18 <dec> 4062273527 <dec> 4063377639 <dec> 2 <dec> 0 A (Def) 559 V 560 V 561 V 562 V 563 V	
		HL_Drain1_3B_V HP337194 564 V HL_Curlim1 HP290194 565 HL_Drain2_3B_V HP338194 566 V HL_Curlim2 HP291194 567 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	564 V 565 566 V 567 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254269 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254269 <dec> 2.24 mA	

HIFI-COP-3-Spur_B3b_3
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 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254269 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254269 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254270 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254270 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 213254270 <dec> HIF_Nsteps HP054197 61 <dec> HIF_step_time HP055197 0.1 s HF_CH1_DPACT0_C HP175191 2.24 mA HF_CV1_DPACT0_C HP190191 2.24 mA HIF_dpact_step_C HP062191 -0.073 mA Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289	
	ET=+ UT=+00.00.10	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 209715210 <dec> HF_CPR_Mixer_H_S HP203191 ON (Def) HF_CPR_Mixer_V_S HP204191 ON (Def) HF_CPR_Chopper_S HP205191 ON (Def) HF_CPR_UCH_S HP206191 ON (Def) HF_CPR_UCV_S HP207191 ON (Def) Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289	
	ET=+ UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 209715210 <dec> HF_CPR_MX BAND HP202191 3 <dec> HF_CH1_DPFPF1 HP176191 227 <dec> (Def) HF_CH2_FIF1_Drain_V HP177191 0.75 V HF_CH2_FIF1_Drain_C HP178191 4 mA HF_CH2_FIF2_Drain_V HP179191 0.65 V HF_CH2_FIF2_Drain_C HP180191 3 mA HF_CH2_SIF1_Drain_V HP181191 0.82 V HF_CH2_SIF1_Drain_C HP182191 2.5 mA HF_CH2_SIF2_Drain_V HP183191 0.8 V HF_CH2_SIF2_Drain_C HP184191 1.9 mA HF_CH2_SIF3_Drain_V HP185191 0.65 V HF_CH2_SIF3_Drain_C HP186191 3 mA HF_CV1_DPFPF1 HP191191 227 <dec> (Def) HF_CV2_FIF1_Drain_V HP192191 0.75 V HF_CV2_FIF1_Drain_C HP193191 4 mA HF_CV2_FIF2_Drain_V HP194191 0.65 V HF_CV2_FIF2_Drain_C HP195191 3 mA HF_CV2_SIF1_Drain_V HP196191 0.77 V HF_CV2_SIF1_Drain_C HP197191 3 mA HF_CV2_SIF2_Drain_V HP198191 0.9 V HF_CV2_SIF2_Drain_C HP199191 1.55 mA HF_CV2_SIF3_Drain_V HP200191 0.75 V HF_CV2_SIF3_Drain_C HP201191 2.5 mA HF_CPR_CH_SINE_S HP211191 ON (Def) HF_CPR_CH_LOOP_S HP210191 CLOSE (Def)	HC182289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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_DPACT_C HP174191 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Configure the FCU-subsystem (prime)	17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 2.35 mV 15 mA 2.35 mV 15 mA -1.07 V - 0.114955405765374 mA 0.697068907329078 mA	
	ET=+ UT=+00.00.03	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 209715210 <dec> 8.3 mA	
	ET=+ 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 209715210 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747712 <dec> - 0.114955405765374 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747712 <dec> 0.697068907329078 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097792 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097792 <dec> 18 <dec> 4062273780 <dec> 4063378144 <dec> 2 <dec> 0 A (Def) 568 V 569 V 570 V 571 V 572 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	573 V 574 575 V 576 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk <i>Subsch. ID : 70</i> Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254271 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254271 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254271 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254272 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254272 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254272 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747713 <dec> - 0.114955405765374 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747713 <dec> 0.697068907329078 mA	
	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 257097793 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097793 <dec> 18 <dec> 4062273780 <dec> 4063378144 <dec> 2 <dec> 0 A (Def) 577 V 578 V 579 V 580 V 581 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254274 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254274 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254274 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747714 <dec> - 0.114955405765374 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747714 <dec> 0.697068907329078 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097794 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097794 <dec> 18 <dec> 4062273780 <dec> 4063378144 <dec> 2 <dec> 0 A (Def) 586 V 587 V 588 V 589 V 590 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	591 V 592 593 V 594 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254275 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254275 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254275 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254276 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254276 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254276 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747715 <dec> - 0.114955405765374 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747715 <dec> 0.697068907329078 mA	
	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 257097795 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097795 <dec> 18 <dec> 4062273780 <dec> 4063378144 <dec> 2 <dec> 0 A (Def) 595 V 596 V 597 V 598 V 599 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254278 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254278 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254278 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747716 <dec> - 0.114955405765374 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747716 <dec> 0.697068907329078 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097796 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097796 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062273780 <dec> HL_LSU_offset HP439194 4063378144 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 604 V HL_M2_3B_V HP333194 605 V HL_M3_3B_V HP334194 606 V HL_Gate1_3B_V HP335194 607 V HL_Gate2_3B_V HP336194 608 V	HC040289 257097796 <dec> 18 <dec> 4062273780 <dec> 4063378144 <dec> 2 <dec> 0 A (Def) 604 V 605 V 606 V 607 V 608 V	
		HL_Drain1_3B_V HP337194 609 V HL_Curlim1 HP290194 610 HL_Drain2_3B_V HP338194 611 V HL_Curlim2 HP291194 612 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	609 V 610 611 V 612 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254279 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254279 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254279 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254279 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254280 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254280 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254280 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747717 <dec> - 0.114955405765374 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747717 <dec> 0.697068907329078 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097797 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097797 <dec> 18 <dec> 4062273780 <dec> 4063378144 <dec> 2 <dec> 0 A (Def) 613 V 614 V 615 V 616 V 617 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254282 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254282 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254282 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747718 <dec> - 0.114955405765374 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747718 <dec> 0.697068907329078 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097798 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097798 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062273780 <dec> HL_LSU_offset HP439194 4063378144 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 622 V HL_M2_3B_V HP333194 623 V HL_M3_3B_V HP334194 624 V HL_Gate1_3B_V HP335194 625 V HL_Gate2_3B_V HP336194 626 V	HC040289 257097798 <dec> 18 <dec> 4062273780 <dec> 4063378144 <dec> 2 <dec> 0 A (Def) 622 V 623 V 624 V 625 V 626 V	
		HL_Drain1_3B_V HP337194 627 V HL_Curlim1 HP290194 628 HL_Drain2_3B_V HP338194 629 V HL_Curlim2 HP291194 630 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	627 V 628 629 V 630 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254283 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254283 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254283 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254283 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254284 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254284 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 213254284 <dec> HIF_Nsteps HP054197 61 <dec> HIF_step_time HP055197 0.1 s HF_CH1_DPACT0_C HP175191 2.24 mA HF_CV1_DPACT0_C HP190191 2.24 mA HIF_dpact_step_C HP062191 -0.073 mA Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289	
	ET=+ UT=+00.00.10	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 209715211 <dec> HF_CPR_Mixer_H_S HP203191 ON (Def) HF_CPR_Mixer_V_S HP204191 ON (Def) HF_CPR_Chopper_S HP205191 ON (Def) HF_CPR_UCH_S HP206191 ON (Def) HF_CPR_UCV_S HP207191 ON (Def) Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289	
	ET=+ UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 209715211 <dec> HF_CPR_MX BAND HP202191 3 <dec> HF_CH1_DPFPF1 HP176191 227 <dec> (Def) HF_CH2_FIF1_Drain_V HP177191 0.75 V HF_CH2_FIF1_Drain_C HP178191 4 mA HF_CH2_FIF2_Drain_V HP179191 0.65 V HF_CH2_FIF2_Drain_C HP180191 3 mA HF_CH2_SIF1_Drain_V HP181191 0.82 V HF_CH2_SIF1_Drain_C HP182191 2.5 mA HF_CH2_SIF2_Drain_V HP183191 0.8 V HF_CH2_SIF2_Drain_C HP184191 1.9 mA HF_CH2_SIF3_Drain_V HP185191 0.65 V HF_CH2_SIF3_Drain_C HP186191 3 mA HF_CV1_DPFPF1 HP191191 227 <dec> (Def) HF_CV2_FIF1_Drain_V HP192191 0.75 V HF_CV2_FIF1_Drain_C HP193191 4 mA HF_CV2_FIF2_Drain_V HP194191 0.65 V HF_CV2_FIF2_Drain_C HP195191 3 mA HF_CV2_SIF1_Drain_V HP196191 0.77 V HF_CV2_SIF1_Drain_C HP197191 3 mA HF_CV2_SIF2_Drain_V HP198191 0.9 V HF_CV2_SIF2_Drain_C HP199191 1.55 mA HF_CV2_SIF3_Drain_V HP200191 0.75 V HF_CV2_SIF3_Drain_C HP201191 2.5 mA HF_CPR_CH_SINE_S HP211191 ON (Def) HF_CPR_CH_LOOP_S HP210191 CLOSE (Def)	HC182289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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_DPACT_C HP174191 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Configure the FCU-subsystem (prime)	17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 2.35 mV 15 mA 2.35 mV 15 mA -1.07 V - 0.179344273012375 mA 0.639099040756217 mA	
	ET=+ UT=+00.00.03	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 209715211 <dec> 8.3 mA	
	ET=+ 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 209715211 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747719 <dec> - 0.179344273012375 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747719 <dec> 0.639099040756217 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097799 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097799 <dec> 18 <dec> 4062273524 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 631 V 632 V 633 V 634 V 635 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	636 V 637 638 V 639 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk <i>Subsch. ID : 70</i> Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254285 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254285 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254285 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254286 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254286 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254286 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747720 <dec> - 0.179344273012375 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747720 <dec> 0.639099040756217 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097800 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097800 <dec> 18 <dec> 4062273524 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 640 V 641 V 642 V 643 V 644 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	645 V 646 647 V 648 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254287 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254287 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254287 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254288 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254288 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254288 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747721 <dec> - 0.179344273012375 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747721 <dec> 0.639099040756217 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097801 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097801 <dec> 18 <dec> 4062273524 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 649 V 650 V 651 V 652 V 653 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	654 V 655 656 V 657 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254289 <dec> 2.24 mA	

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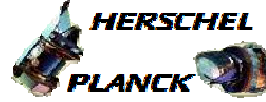
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254289 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254289 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254290 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254290 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254290 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747722 <dec> - 0.179344273012375 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747722 <dec> 0.639099040756217 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097802 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097802 <dec> 18 <dec> 4062273524 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 658 V 659 V 660 V 661 V 662 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254292 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254292 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254292 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747723 <dec> - 0.179344273012375 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747723 <dec> 0.639099040756217 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097803 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097803 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062273524 <dec> HL_LSU_offset HP439194 4063377895 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 667 V HL_M2_3B_V HP333194 668 V HL_M3_3B_V HP334194 669 V HL_Gate1_3B_V HP335194 670 V HL_Gate2_3B_V HP336194 671 V	HC040289 257097803 <dec> 18 <dec> 4062273524 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 667 V 668 V 669 V 670 V 671 V	
		HL_Drain1_3B_V HP337194 672 V HL_Curlim1 HP290194 673 HL_Drain2_3B_V HP338194 674 V HL_Curlim2 HP291194 675 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	672 V 673 674 V 675 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254293 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254293 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254293 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254293 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254294 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254294 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254294 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747724 <dec> - 0.179344273012375 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747724 <dec> 0.639099040756217 mA	
	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 257097804 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097804 <dec> 18 <dec> 4062273524 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 676 V 677 V 678 V 679 V 680 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	681 V 682 683 V 684 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254295 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254295 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254295 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254296 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254296 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254296 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747725 <dec> - 0.179344273012375 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747725 <dec> 0.639099040756217 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097805 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097805 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062273524 <dec> HL_LSU_offset HP439194 4063377895 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 685 V HL_M2_3B_V HP333194 686 V HL_M3_3B_V HP334194 687 V HL_Gate1_3B_V HP335194 688 V HL_Gate2_3B_V HP336194 689 V	HC040289 257097805 <dec> 18 <dec> 4062273524 <dec> 4063377895 <dec> 2 <dec> 0 A (Def) 685 V 686 V 687 V 688 V 689 V	
		HL_Drain1_3B_V HP337194 690 V HL_Curlim1 HP290194 691 HL_Drain2_3B_V HP338194 692 V HL_Curlim2 HP291194 693 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	690 V 691 692 V 693 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254297 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254297 <dec> 2.24 mA	

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 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254297 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254297 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254298 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254298 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 213254298 <dec> HIF_Nsteps HP054197 61 <dec> HIF_step_time HP055197 0.1 s HF_CH1_DPACT0_C HP175191 2.24 mA HF_CV1_DPACT0_C HP190191 2.24 mA HIF_dpact_step_C HP062191 -0.073 mA Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289	
	ET=+ UT=+00.00.10	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 209715212 <dec> HF_CPR_Mixer_H_S HP203191 ON (Def) HF_CPR_Mixer_V_S HP204191 ON (Def) HF_CPR_Chopper_S HP205191 ON (Def) HF_CPR_UCH_S HP206191 ON (Def) HF_CPR_UCV_S HP207191 ON (Def) Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289	
	ET=+ UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 209715212 <dec> HF_CPR_MX BAND HP202191 3 <dec> HF_CH1_DPFPF1 HP176191 227 <dec> (Def) HF_CH2_FIF1_Drain_V HP177191 0.75 V HF_CH2_FIF1_Drain_C HP178191 4 mA HF_CH2_FIF2_Drain_V HP179191 0.65 V HF_CH2_FIF2_Drain_C HP180191 3 mA HF_CH2_SIF1_Drain_V HP181191 0.82 V HF_CH2_SIF1_Drain_C HP182191 2.5 mA HF_CH2_SIF2_Drain_V HP183191 0.8 V HF_CH2_SIF2_Drain_C HP184191 1.9 mA HF_CH2_SIF3_Drain_V HP185191 0.65 V HF_CH2_SIF3_Drain_C HP186191 3 mA HF_CV1_DPFPF1 HP191191 227 <dec> (Def) HF_CV2_FIF1_Drain_V HP192191 0.75 V HF_CV2_FIF1_Drain_C HP193191 4 mA HF_CV2_FIF2_Drain_V HP194191 0.65 V HF_CV2_FIF2_Drain_C HP195191 3 mA HF_CV2_SIF1_Drain_V HP196191 0.77 V HF_CV2_SIF1_Drain_C HP197191 3 mA HF_CV2_SIF2_Drain_V HP198191 0.9 V HF_CV2_SIF2_Drain_C HP199191 1.55 mA HF_CV2_SIF3_Drain_V HP200191 0.75 V HF_CV2_SIF3_Drain_C HP201191 2.5 mA HF_CPR_CH_SINE_S HP211191 ON (Def) HF_CPR_CH_LOOP_S HP210191 CLOSE (Def)	HC182289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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_DPACT_C HP174191 HF_CV1_DPACT_C HP189191	17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 2.35 mV 15 mA 2.35 mV 15 mA -1.07 V - 0.243733000750342 mA 0.581129299784572 mA	
		Subsch. ID : 70		
		Det. descr. : Configure the FCU-subsystem (prime)		
	ET=+ UT=+00.00.03	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 209715212 <dec> 8.3 mA	
	ET=+ 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 209715212 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747726 <dec> - 0.243733000750342 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747726 <dec> 0.581129299784572 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097806 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097806 <dec> 18 <dec> 4062273269 <dec> 4063377893 <dec> 2 <dec> 0 A (Def) 694 V 695 V 696 V 697 V 698 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	699 V 700 701 V 702 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk <i>Subsch. ID : 70</i> Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254299 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254299 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254299 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254300 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254300 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254300 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747727 <dec> - 0.243733000750342 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747727 <dec> 0.581129299784572 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097807 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097807 <dec> 18 <dec> 4062273269 <dec> 4063377893 <dec> 2 <dec> 0 A (Def) 703 V 704 V 705 V 706 V 707 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	708 V 709 710 V 711 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254301 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254301 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254301 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254302 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254302 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254302 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747728 <dec> - 0.243733000750342 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747728 <dec> 0.581129299784572 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097808 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097808 <dec> 18 <dec> 4062273269 <dec> 4063377893 <dec> 2 <dec> 0 A (Def) 712 V 713 V 714 V 715 V 716 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	717 V 718 719 V 720 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254303 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254303 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254303 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254304 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254304 <dec> 2.24 mA	

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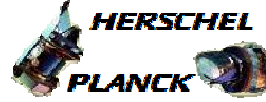
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254304 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747729 <dec> - 0.243733000750342 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747729 <dec> 0.581129299784572 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097809 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097809 <dec> 18 <dec> 4062273269 <dec> 4063377893 <dec> 2 <dec> 0 A (Def) 721 V 722 V 723 V 724 V 725 V	

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 Author: R. Biggins



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254306 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254306 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254306 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747730 <dec> - 0.243733000750342 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747730 <dec> 0.581129299784572 mA	

HIFI-COP-3-Spur_B3b_3
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097810 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097810 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062273269 <dec> HL_LSU_offset HP439194 4063377893 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 730 V HL_M2_3B_V HP333194 731 V HL_M3_3B_V HP334194 732 V HL_Gate1_3B_V HP335194 733 V HL_Gate2_3B_V HP336194 734 V	HC040289 257097810 <dec> 18 <dec> 4062273269 <dec> 4063377893 <dec> 2 <dec> 0 A (Def) 730 V 731 V 732 V 733 V 734 V	
		HL_Drain1_3B_V HP337194 735 V HL_Curlim1 HP290194 736 HL_Drain2_3B_V HP338194 737 V HL_Curlim2 HP291194 738 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	735 V 736 737 V 738 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254307 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254307 <dec> 2.24 mA	

HIFI-COP-3-Spur_B3b_3
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254307 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254307 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254308 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254308 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254308 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747731 <dec> - 0.243733000750342 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747731 <dec> 0.581129299784572 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097811 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097811 <dec> 18 <dec> 4062273269 <dec> 4063377893 <dec> 2 <dec> 0 A (Def) 739 V 740 V 741 V 742 V 743 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	744 V 745 746 V 747 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254309 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254309 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254309 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254310 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254310 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254310 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747732 <dec> - 0.243733000750342 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747732 <dec> 0.581129299784572 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097812 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097812 <dec> HL_freq_nx HP436194 18 <dec> HL_LSU_main HP438194 4062273269 <dec> HL_LSU_offset HP439194 4063377893 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 748 V HL_M2_3B_V HP333194 749 V HL_M3_3B_V HP334194 750 V HL_Gate1_3B_V HP335194 751 V HL_Gate2_3B_V HP336194 752 V	HC040289 257097812 <dec> 18 <dec> 4062273269 <dec> 4063377893 <dec> 2 <dec> 0 A (Def) 748 V 749 V 750 V 751 V 752 V	
		HL_Drain1_3B_V HP337194 753 V HL_Curlim1 HP290194 754 HL_Drain2_3B_V HP338194 755 V HL_Curlim2 HP291194 756 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	753 V 754 755 V 756 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254311 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254311 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254311 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254311 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254312 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254312 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 213254312 <dec> HIF_Nsteps HP054197 61 <dec> HIF_step_time HP055197 0.1 s HF_CH1_DPACT0_C HP175191 2.24 mA HF_CV1_DPACT0_C HP190191 2.24 mA HIF_dpact_step_C HP062191 -0.073 mA Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289	
	ET=+ UT=+00.00.10	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 209715213 <dec> HF_CPR_Mixer_H_S HP203191 ON (Def) HF_CPR_Mixer_V_S HP204191 ON (Def) HF_CPR_Chopper_S HP205191 ON (Def) HF_CPR_UCH_S HP206191 ON (Def) HF_CPR_UCV_S HP207191 ON (Def) Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289	
	ET=+ UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 209715213 <dec> HF_CPR_MX BAND HP202191 3 <dec> HF_CH1_DPFPF1 HP176191 227 <dec> (Def) HF_CH2_FIF1_Drain_V HP177191 0.75 V HF_CH2_FIF1_Drain_C HP178191 4 mA HF_CH2_FIF2_Drain_V HP179191 0.65 V HF_CH2_FIF2_Drain_C HP180191 3 mA HF_CH2_SIF1_Drain_V HP181191 0.82 V HF_CH2_SIF1_Drain_C HP182191 2.5 mA HF_CH2_SIF2_Drain_V HP183191 0.8 V HF_CH2_SIF2_Drain_C HP184191 1.9 mA HF_CH2_SIF3_Drain_V HP185191 0.65 V HF_CH2_SIF3_Drain_C HP186191 3 mA HF_CV1_DPFPF1 HP191191 227 <dec> (Def) HF_CV2_FIF1_Drain_V HP192191 0.75 V HF_CV2_FIF1_Drain_C HP193191 4 mA HF_CV2_FIF2_Drain_V HP194191 0.65 V HF_CV2_FIF2_Drain_C HP195191 3 mA HF_CV2_SIF1_Drain_V HP196191 0.77 V HF_CV2_SIF1_Drain_C HP197191 3 mA HF_CV2_SIF2_Drain_V HP198191 0.9 V HF_CV2_SIF2_Drain_C HP199191 1.55 mA HF_CV2_SIF3_Drain_V HP200191 0.75 V HF_CV2_SIF3_Drain_C HP201191 2.5 mA HF_CPR_CH_SINE_S HP211191 ON (Def) HF_CPR_CH_LOOP_S HP210191 CLOSE (Def)	HC182289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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_DPACT_C HP174191 HF_CV1_DPACT_C HP189191	17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 2.35 mV 15 mA 2.35 mV 15 mA -1.07 V - 0.308121867997359 mA 0.523159433211697 mA	
		Subsch. ID : 70		
		Det. descr. : Configure the FCU-subsystem (prime)		
	ET=+ UT=+00.00.03	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 209715213 <dec> 8.3 mA	
	ET=+ 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 209715213 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747733 <dec> - 0.308121867997359 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747733 <dec> 0.523159433211697 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097813 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097813 <dec> 19 <dec> 4062273013 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 757 V 758 V 759 V 760 V 761 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	762 V 763 764 V 765 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk <i>Subsch. ID : 70</i> Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254313 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254313 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254313 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254314 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254314 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254314 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747734 <dec> - 0.308121867997359 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747734 <dec> 0.523159433211697 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097814 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097814 <dec> 19 <dec> 4062273013 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 766 V 767 V 768 V 769 V 770 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254316 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254316 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254316 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747735 <dec> - 0.308121867997359 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747735 <dec> 0.523159433211697 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097815 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097815 <dec> HL_freq_nx HP436194 19 <dec> HL_LSU_main HP438194 4062273013 <dec> HL_LSU_offset HP439194 4063377890 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 775 V HL_M2_3B_V HP333194 776 V HL_M3_3B_V HP334194 777 V HL_Gate1_3B_V HP335194 778 V HL_Gate2_3B_V HP336194 779 V	HC040289 257097815 <dec> 19 <dec> 4062273013 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 775 V 776 V 777 V 778 V 779 V	
		HL_Drain1_3B_V HP337194 780 V HL_Curlim1 HP290194 781 HL_Drain2_3B_V HP338194 782 V HL_Curlim2 HP291194 783 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	780 V 781 782 V 783 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254317 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254317 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254317 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254317 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254318 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254318 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254318 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747736 <dec> - 0.308121867997359 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747736 <dec> 0.523159433211697 mA	
	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 257097816 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097816 <dec> 19 <dec> 4062273013 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 784 V 785 V 786 V 787 V 788 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	789 V 790 791 V 792 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254319 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254319 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254319 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254320 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254320 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254320 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747737 <dec> - 0.308121867997359 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747737 <dec> 0.523159433211697 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097817 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097817 <dec> HL_freq_nx HP436194 19 <dec> HL_LSU_main HP438194 4062273013 <dec> HL_LSU_offset HP439194 4063377890 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 793 V HL_M2_3B_V HP333194 794 V HL_M3_3B_V HP334194 795 V HL_Gate1_3B_V HP335194 796 V HL_Gate2_3B_V HP336194 797 V	HC040289 257097817 <dec> 19 <dec> 4062273013 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 793 V 794 V 795 V 796 V 797 V	
		HL_Drain1_3B_V HP337194 798 V HL_Curlim1 HP290194 799 HL_Drain2_3B_V HP338194 800 V HL_Curlim2 HP291194 801 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	798 V 799 800 V 801 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254321 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254321 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254321 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254321 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254322 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254322 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254322 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747738 <dec> - 0.308121867997359 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747738 <dec> 0.523159433211697 mA	
	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 257097818 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097818 <dec> 19 <dec> 4062273013 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 802 V 803 V 804 V 805 V 806 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254324 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254324 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254324 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747739 <dec> - 0.308121867997359 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747739 <dec> 0.523159433211697 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097819 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b 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_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097819 <dec> 19 <dec> 4062273013 <dec> 4063377890 <dec> 2 <dec> 0 A (Def) 811 V 812 V 813 V 814 V 815 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	816 V 817 818 V 819 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254325 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254325 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254325 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254326 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254326 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 213254326 <dec> HIF_Nsteps HP054197 61 <dec> HIF_step_time HP055197 0.1 s HF_CH1_DPACT0_C HP175191 2.24 mA HF_CV1_DPACT0_C HP190191 2.24 mA HIF_dpact_step_C HP062191 -0.073 mA Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289	
	ET=+ UT=+00.00.10	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power Command Parameter(s) : HIFI_BB_ID HP001197 209715214 <dec> HF_CPR_Mixer_H_S HP203191 ON (Def) HF_CPR_Mixer_V_S HP204191 ON (Def) HF_CPR_Chopper_S HP205191 ON (Def) HF_CPR_UCH_S HP206191 ON (Def) HF_CPR_UCV_S HP207191 ON (Def) Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289	
	ET=+ UT=+00.00.00	HIFI_P_Configure_FCU HIFI_P_Configure_FCU Command Parameter(s) : HIFI_BB_ID HP001197 209715214 <dec> HF_CPR_MX BAND HP202191 3 <dec> HF_CH1_DPFPF1 HP176191 227 <dec> (Def) HF_CH2_FIF1_Drain_V HP177191 0.75 V HF_CH2_FIF1_Drain_C HP178191 4 mA HF_CH2_FIF2_Drain_V HP179191 0.65 V HF_CH2_FIF2_Drain_C HP180191 3 mA HF_CH2_SIF1_Drain_V HP181191 0.82 V HF_CH2_SIF1_Drain_C HP182191 2.5 mA HF_CH2_SIF2_Drain_V HP183191 0.8 V HF_CH2_SIF2_Drain_C HP184191 1.9 mA HF_CH2_SIF3_Drain_V HP185191 0.65 V HF_CH2_SIF3_Drain_C HP186191 3 mA HF_CV1_DPFPF1 HP191191 227 <dec> (Def) HF_CV2_FIF1_Drain_V HP192191 0.75 V HF_CV2_FIF1_Drain_C HP193191 4 mA HF_CV2_FIF2_Drain_V HP194191 0.65 V HF_CV2_FIF2_Drain_C HP195191 3 mA HF_CV2_SIF1_Drain_V HP196191 0.77 V HF_CV2_SIF1_Drain_C HP197191 3 mA HF_CV2_SIF2_Drain_V HP198191 0.9 V HF_CV2_SIF2_Drain_C HP199191 1.55 mA HF_CV2_SIF3_Drain_V HP200191 0.75 V HF_CV2_SIF3_Drain_C HP201191 2.5 mA HF_CPR_CH_SINE_S HP211191 ON (Def) HF_CPR_CH_LOOP_S HP210191 CLOSE (Def)	HC182289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		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_DPACT_C HP174191 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Configure the FCU-subsystem (prime)	17 <dec> 201 <dec> 1010 <dec> 885 <dec> 149 <dec> 1.1 mA 2.35 mV 15 mA 2.35 mV 15 mA -1.07 V - 0.372510595735326 mA 0.465189692240052 mA	
	ET=+ UT=+00.00.03	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 209715214 <dec> 8.3 mA	
	ET=+ 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 209715214 <dec> 8.2 mA	
	ET=+ UT=+00.00.01	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747740 <dec> - 0.372510595735326 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747740 <dec> 0.465189692240052 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097820 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097820 <dec> 19 <dec> 4062272758 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 820 V 821 V 822 V 823 V 824 V	
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 <i>Subsch. ID : 70</i> Det. descr. : Create macro-command to configure LCU band 3b	825 V 826 827 V 828 1 <dec>	
	ET=+ UT=+00.00.06	HIFI_LCU_all_tuning_hk HIFI_LCU_all_tuning_hk <i>Subsch. ID : 70</i> Det. descr. : Requests all five LCU intermediate housekeeping-sets	HC193289	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254327 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254327 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254327 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254328 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254328 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254328 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747741 <dec> - 0.372510595735326 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747741 <dec> 0.465189692240052 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097821 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097821 <dec> 19 <dec> 4062272758 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 829 V 830 V 831 V 832 V 833 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254330 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254330 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254330 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747742 <dec> - 0.372510595735326 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747742 <dec> 0.465189692240052 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097822 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097822 <dec> HL_freq_nx HP436194 19 <dec> HL_LSU_main HP438194 4062272758 <dec> HL_LSU_offset HP439194 4063377888 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 838 V HL_M2_3B_V HP333194 839 V HL_M3_3B_V HP334194 840 V HL_Gate1_3B_V HP335194 841 V HL_Gate2_3B_V HP336194 842 V	HC040289 257097822 <dec> 19 <dec> 4062272758 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 838 V 839 V 840 V 841 V 842 V	
		HL_Drain1_3B_V HP337194 843 V HL_Curlim1 HP290194 844 HL_Drain2_3B_V HP338194 845 V HL_Curlim2 HP291194 846 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	843 V 844 845 V 846 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254331 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254331 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254331 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254331 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254332 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254332 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254332 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747743 <dec> - 0.372510595735326 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747743 <dec> 0.465189692240052 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097823 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097823 <dec> 19 <dec> 4062272758 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 847 V 848 V 849 V 850 V 851 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HL_Drain1_3B_V HP337194 HL_Curlim1 HP290194 HL_Drain2_3B_V HP338194 HL_Curlim2 HP291194 HL_macro_checksum HP440194 Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	852 V 853 854 V 855 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254333 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254333 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254333 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254334 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254334 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254334 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747744 <dec> - 0.372510595735326 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747744 <dec> 0.465189692240052 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097824 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097824 <dec> HL_freq_nx HP436194 19 <dec> HL_LSU_main HP438194 4062272758 <dec> HL_LSU_offset HP439194 4063377888 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 856 V HL_M2_3B_V HP333194 857 V HL_M3_3B_V HP334194 858 V HL_Gate1_3B_V HP335194 859 V HL_Gate2_3B_V HP336194 860 V	HC040289 257097824 <dec> 19 <dec> 4062272758 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 856 V 857 V 858 V 859 V 860 V	
		HL_Drain1_3B_V HP337194 861 V HL_Curlim1 HP290194 862 HL_Drain2_3B_V HP338194 863 V HL_Curlim2 HP291194 864 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	861 V 862 863 V 864 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254335 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254335 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254335 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254335 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 213254336 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 213254336 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 <i>Subsch. ID : 70</i> Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254336 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set H diplexer current	HC097289 238747745 <dec> - 0.372510595735326 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 <i>Subsch. ID : 70</i> Det. descr. : Send single command to set V diplexer current	HC100289 238747745 <dec> 0.465189692240052 mA	
	ET=+ UT=+00.00.01	HIFI_HL_Normal HIFI_HL_Normal <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 <i>Subsch. ID : 70</i> Det. descr. : Send single command to switch LCU to normal mode	HC082289 257097825 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b <i>Command Parameter(s) :</i> HIFI_BB_ID HP001197 HL_freq_nx HP436194 HL_LSU_main HP438194 HL_LSU_offset HP439194 HL_D2_step HP437194 HL_PL_3B_C HP331194 HL_M1_3B_V HP332194 HL_M2_3B_V HP333194 HL_M3_3B_V HP334194 HL_Gate1_3B_V HP335194 HL_Gate2_3B_V HP336194	HC040289 257097825 <dec> 19 <dec> 4062272758 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 865 V 866 V 867 V 868 V 869 V	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254338 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254338 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254338 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.10	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 238747746 <dec> - 0.372510595735326 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 238747746 <dec> 0.465189692240052 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	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 257097826 <dec>	
	ET=+ UT=+00.00.01	HIFI_Conf_nom_LCU_ch3b HIFI_Conf_nom_LCU_ch3b Command Parameter(s) : HIFI_BB_ID HP001197 257097826 <dec> HL_freq_nx HP436194 19 <dec> HL_LSU_main HP438194 4062272758 <dec> HL_LSU_offset HP439194 4063377888 <dec> HL_D2_step HP437194 2 <dec> HL_PL_3B_C HP331194 0 A (Def) HL_M1_3B_V HP332194 874 V HL_M2_3B_V HP333194 875 V HL_M3_3B_V HP334194 876 V HL_Gate1_3B_V HP335194 877 V HL_Gate2_3B_V HP336194 878 V	HC040289 257097826 <dec> 19 <dec> 4062272758 <dec> 4063377888 <dec> 2 <dec> 0 A (Def) 874 V 875 V 876 V 877 V 878 V	
		HL_Drain1_3B_V HP337194 879 V HL_Curlim1 HP290194 880 HL_Drain2_3B_V HP338194 881 V HL_Curlim2 HP291194 882 HL_macro_checksum HP440194 1 <dec> Subsch. ID : 70 Det. descr. : Create macro-command to configure LCU band 3b	879 V 880 881 V 882 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_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 213254339 <dec> HF_CH1_DPACT_C HP174191 2.24 mA Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254339 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254339 <dec> 2.24 mA	
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 HIF_Nsteps HP054197 HIF_step_time HP055197 HF_CH1_DPACT0_C HP175191 HF_CV1_DPACT0_C HP190191 HIF_dpact_step_C HP062191 Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289 213254339 <dec> 61 <dec> 0.1 s 2.24 mA 2.24 mA -0.073 mA	
	ET=+ UT=+00.00.14	HIFI_CH1_DPACT_C HIFI_CH1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_DPACT_C HP174191 Subsch. ID : 70 Det. descr. : Send single command to set H diplexer current	HC097289 213254340 <dec> 2.24 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_DPACT_C HIFI_CV1_DPACT_C Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_DPACT_C HP189191 Subsch. ID : 70 Det. descr. : Send single command to set V diplexer current	HC100289 213254340 <dec> 2.24 mA	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_scan_diplexer HIFI_scan_diplexer Command Parameter(s) : HIFI_BB_ID HP001197 213254340 <dec> HIF_Nsteps HP054197 61 <dec> HIF_step_time HP055197 0.1 s HF_CH1_DPACT0_C HP175191 2.24 mA HF_CV1_DPACT0_C HP190191 2.24 mA HIF_dpact_step_C HP062191 -0.073 mA Subsch. ID : 70 Det. descr. : Specifies and start an FCU-diplexer scan	HC106289	
	ET=+ UT=+00.00.10	HIFI_Housekeeping_on HIFI_Housekeeping_on Command Parameter(s) : HIF_HK_rate HP012197 1_pkt_per_4_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) Subsch. ID : 70 Det. descr. : Sets periodic housekeeping packet generation period	HC016289	
		NOTE: At the end of this test, the standard LCU safety table should be uploaded again.		
5		Set default OBSID/BBID		Next Step: END
	ET=+ UT=+00.00.01	HIFI_Set_OBS_ID HIFI_Set_OBS_ID Command Parameter(s) : HIFI_BB_ID HP001197 0 <hex> (Def) HIFI_OBS_ID HP000197 0 <hex> (Def) TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 70 Det. descr. : Set Observation-ID and Building-Block-ID	HC014289	
		Verify Telemetry BB_ID_per_hk HM004190 = 0 <hex>		AND=ZAZ9C999
		Verify Telemetry OBS_ID_per_hk HM003190 = 0 <hex>		AND=ZAZ9C999

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