

Chopper Health Check Test #2  
 File: H\_FCP\_HIF\_RHC2.xls  
 Author: R. Biggins



## Procedure Summary

### Objectives

The objective of this procedure is to perform part two of HIFI internal chopper health check (open loop).

Based on procedure:  
 HIFI\_Chopper\_openloop\_scan\_health\_check\_Redundant (v1)

### Summary of Constraints

The procedure H\_FCP\_HIF\_RHC1 must have been successfully completed before this procedure can be executed

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

### Spacecraft Configuration

**Start of Procedure**

HIFI is in Standby mode

**End of Procedure**

No change to HIFI mode

### Reference File(s)

**Input Command Sequences**

**Output Command Sequences**

HFHRHC2

### Referenced Displays

**ANDs**      **GRDs**      **SLDs**  
 ZAZ9E999

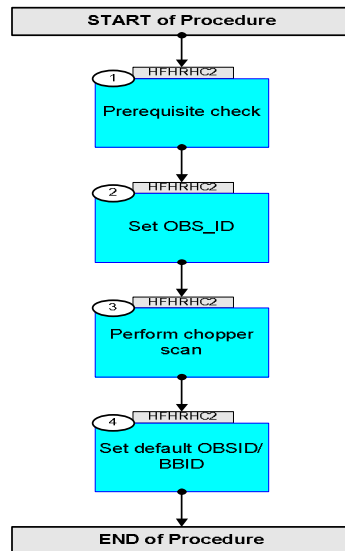
### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
05/06/08	1	1	Created	R. Biggins	
04/11/08	2	1.01	Validation : Updates due to comments from D. Teyssier - TM parameter HF_APR_CH_ROT values updated in steps 3.a and 3.2	R. Biggins	
25/02/09	2.1	1.02	Validation : Updates due to SVT-2/SOVT-2 testing - Summary updated	R. Biggins	
25/11/09	3	2	Updates due to Prime unit failure resulting in new operation scheme - Updated to reflect new mode name	R. Biggins	

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## Procedure Flowchart Overview





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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
3		Perform chopper scan		Next Step: 4
		Success of this integrity check needs off-line analysis.		
3.1		Scanning from 2048 RAW to 2548 RAW		☐
	ET=+ UT=+00.00.02	Execute Telecommand <p style="text-align: right;">HIFI_R_Chopper_Rot</p> Command Parameter(s) : HIFI_BB_ID                  HP001197 HF_R_Chopper_Rot          HP455191  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2048 <dec>	
		Verify Telemetry BB_ID_per_hk                  HM004190	= 1E0E0001 <hex>	AND=ZAZ9E999
		Verify: Following value is 2048 (dec) HF_DPR_CH_ROT2                  HM196191	= -0.002 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand <p style="text-align: right;">HIFI_R_Chopper_Rot</p> Command Parameter(s) : HIFI_BB_ID                  HP001197 HF_R_Chopper_Rot          HP455191  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2098 <dec>	
		Verify: Following value is 2098 (dec) HF_DPR_CH_ROT2                  HM196191	= -0.247 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand <p style="text-align: right;">HIFI_R_Chopper_Rot</p> Command Parameter(s) : HIFI_BB_ID                  HP001197 HF_R_Chopper_Rot          HP455191  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2148 <dec>	
		Verify: Following value is 2148 (dec) HF_DPR_CH_ROT2                  HM196191	= -0.491 V	AND=ZAZ9E999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2198 <dec>	
		Verify: Following value is 2198 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= -0.735 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2248 <dec>	
		Verify: Following value is 2248 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= -0.979 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2298 <dec>	
		Verify: Following value is 2298 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= -1.223 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2348 <dec>	
		Verify: Following value is 2348 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= -1.468 V	AND=ZAZ9E999

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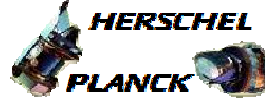
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2398 <dec>	
		Verify: Following value is 2398 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= -1.712 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2448 <dec>	
		Verify: Following value is 2448 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= -1.956 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2498 <dec>	
		Verify: Following value is 2498 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= -2.200 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2548 <dec>	
		Verify: Following value is 2548 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= -2.444 V	AND=ZAZ9E999
		Verify Telemetry (+/- 0.2V) <b>HF_APR_CH_ROT</b> <b>HM222191</b>	= -8.767 V	AND=ZAZ9E999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
3.2		Scanning from 2548 RAW to 1298 RAW		<input type="checkbox"/>
	ET=+ UT=+00.00.02	Execute Telecommand <p style="text-align: right;">HIFI_R_Chopper_Rot</p> Command Parameter(s) : HIFI_BB_ID                  HP001197 HF_R_Chopper_Rot          HP455191  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2498 <dec>	
		Verify: Following value is 2498 (dec) HF_DPR_CH_ROT2              HM196191	= -2.200 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand <p style="text-align: right;">HIFI_R_Chopper_Rot</p> Command Parameter(s) : HIFI_BB_ID                  HP001197 HF_R_Chopper_Rot          HP455191  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2448 <dec>	
		Verify: Following value is 2448 (dec) HF_DPR_CH_ROT2              HM196191	= -1.956 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand <p style="text-align: right;">HIFI_R_Chopper_Rot</p> Command Parameter(s) : HIFI_BB_ID                  HP001197 HF_R_Chopper_Rot          HP455191  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2398 <dec>	
		Verify: Following value is 2398 (dec) HF_DPR_CH_ROT2              HM196191	= -1.712 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand <p style="text-align: right;">HIFI_R_Chopper_Rot</p> Command Parameter(s) : HIFI_BB_ID                  HP001197 HF_R_Chopper_Rot          HP455191  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2348 <dec>	
		Verify: Following value is 2348 (dec) HF_DPR_CH_ROT2              HM196191	= -1.468 V	AND=ZAZ9E999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2298 <dec>	
		Verify: Following value is 2298 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= -1.223 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2248 <dec>	
		Verify: Following value is 2248 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= -0.979 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2198 <dec>	
		Verify: Following value is 2198 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= -0.735 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2148 <dec>	
		Verify: Following value is 2148 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= -0.491 V	AND=ZAZ9E999



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_Chopper_Rot_expert  HIFI_R_Chopper_Rot  Command Parameter(s) : HIFI_BB_ID HP001197 HF_R_Chopper_Rot HP455191  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2098 <dec>	
		Verify: Following value is 2098 (dec) HF_DPR_CH_ROT2 HM196191	= -0.247 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  HIFI_R_Chopper_Rot  Command Parameter(s) : HIFI_BB_ID HP001197 HF_R_Chopper_Rot HP455191  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2048 <dec>	
		Verify: Following value is 2048 (dec) HF_DPR_CH_ROT2 HM196191	= -0.002 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  HIFI_R_Chopper_Rot  Command Parameter(s) : HIFI_BB_ID HP001197 HF_R_Chopper_Rot HP455191  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1998 <dec>	
		Verify: Following value is 1998 (dec) HF_DPR_CH_ROT2 HM196191	= 0.242 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  HIFI_R_Chopper_Rot  Command Parameter(s) : HIFI_BB_ID HP001197 HF_R_Chopper_Rot HP455191  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1948 <dec>	
		Verify: Following value is 1948 (dec) HF_DPR_CH_ROT2 HM196191	= 0.486 V	AND=ZAZ9E999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  <i>Command Parameter(s) :</i> <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  <i>Subsch. ID : 70</i> Det. descr. : Single command chopper to position in redundant command-range	HC185289  <b>1E0E0001 &lt;hex&gt;</b> <b>1898 &lt;dec&gt;</b>	
		Verify: Following value is 1898 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	<b>= 0.730 V</b>	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  <i>Command Parameter(s) :</i> <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  <i>Subsch. ID : 70</i> Det. descr. : Single command chopper to position in redundant command-range	HC185289  <b>1E0E0001 &lt;hex&gt;</b> <b>1848 &lt;dec&gt;</b>	
		Verify: Following value is 1848 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	<b>= 0.974 V</b>	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  <i>Command Parameter(s) :</i> <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  <i>Subsch. ID : 70</i> Det. descr. : Single command chopper to position in redundant command-range	HC185289  <b>1E0E0001 &lt;hex&gt;</b> <b>1798 &lt;dec&gt;</b>	
		Verify: Following value is 1798 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	<b>= 1.219 V</b>	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  <i>Command Parameter(s) :</i> <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  <i>Subsch. ID : 70</i> Det. descr. : Single command chopper to position in redundant command-range	HC185289  <b>1E0E0001 &lt;hex&gt;</b> <b>1748 &lt;dec&gt;</b>	
		Verify: Following value is 1748 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	<b>= 1.463 V</b>	AND=ZAZ9E999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1698 <dec>	
		Verify: Following value is 1698 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 1.707 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1648 <dec>	
		Verify: Following value is 1648 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 1.951 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1598 <dec>	
		Verify: Following value is 1598 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 2.195 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1548 <dec>	
		Verify: Following value is 1548 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 2.440 V	AND=ZAZ9E999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1498 <dec>	
		Verify: Following value is 1498 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 2.684 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1448 <dec>	
		Verify: Following value is 1448 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 2.928 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1398 <dec>	
		Verify: Following value is 1398 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 3.172 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1348 <dec>	
		Verify: Following value is 1348 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 3.416 V	AND=ZAZ9E999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1298 <dec>	
		Verify: Following value is 1298 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 3.661 V	AND=ZAZ9E999
		Verify Telemetry (+/- 0.2V) <b>HF_APR_CH_ROT</b> <b>HM222191</b>	= 7.61 V	AND=ZAZ9E999
3.3		Scanning from 1298 RAW to 2048 RAW		<input type="checkbox"/>
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1348 <dec>	
		Verify: Following value is 1348 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 3.416 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1398 <dec>	
		Verify: Following value is 1398 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 3.172 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1448 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify: Following value is 1448 (dec) HF_DPR_CH_ROT2 HM196191	= 2.928 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand HIFI_R_Chopper_Rot Command Parameter(s) : HIFI_BB_ID HP001197 HF_R_Chopper_Rot HP455191 Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1498 <dec>	
		Verify: Following value is 1498 (dec) HF_DPR_CH_ROT2 HM196191	= 2.684 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand HIFI_R_Chopper_Rot Command Parameter(s) : HIFI_BB_ID HP001197 HF_R_Chopper_Rot HP455191 Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1548 <dec>	
		Verify: Following value is 1548 (dec) HF_DPR_CH_ROT2 HM196191	= 2.440 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand HIFI_R_Chopper_Rot Command Parameter(s) : HIFI_BB_ID HP001197 HF_R_Chopper_Rot HP455191 Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1598 <dec>	
		Verify: Following value is 1598 (dec) HF_DPR_CH_ROT2 HM196191	= 2.195 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand HIFI_R_Chopper_Rot Command Parameter(s) : HIFI_BB_ID HP001197 HF_R_Chopper_Rot HP455191 Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1648 <dec>	
		Verify: Following value is 1648 (dec) HF_DPR_CH_ROT2 HM196191	= 1.951 V	AND=ZAZ9E999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  <i>Command Parameter(s) :</i> <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  <i>Subsch. ID : 70</i> Det. descr. : Single command chopper to position in redundant command-range	HC185289  <b>1E0E0001 &lt;hex&gt;</b> <b>1698 &lt;dec&gt;</b>	
		Verify: Following value is 1698 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	<b>= 1.707 V</b>	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  <i>Command Parameter(s) :</i> <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  <i>Subsch. ID : 70</i> Det. descr. : Single command chopper to position in redundant command-range	HC185289  <b>1E0E0001 &lt;hex&gt;</b> <b>1748 &lt;dec&gt;</b>	
		Verify: Following value is 1748 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	<b>= 1.463 V</b>	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  <i>Command Parameter(s) :</i> <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  <i>Subsch. ID : 70</i> Det. descr. : Single command chopper to position in redundant command-range	HC185289  <b>1E0E0001 &lt;hex&gt;</b> <b>1798 &lt;dec&gt;</b>	
		Verify: Following value is 1798 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	<b>= 1.219 V</b>	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  <i>Command Parameter(s) :</i> <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  <i>Subsch. ID : 70</i> Det. descr. : Single command chopper to position in redundant command-range	HC185289  <b>1E0E0001 &lt;hex&gt;</b> <b>1848 &lt;dec&gt;</b>	
		Verify: Following value is 1848 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	<b>= 0.974 V</b>	AND=ZAZ9E999

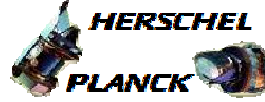
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1898 <dec>	
		Verify: Following value is 1898 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 0.730 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1948 <dec>	
		Verify: Following value is 1948 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 0.486 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 1998 <dec>	
		Verify: Following value is 1998 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= 0.242 V	AND=ZAZ9E999
	ET=+ UT=+00.00.02	Execute Telecommand  <b>HIFI_R_Chopper_Rot</b>  Command Parameter(s) : <b>HIFI_BB_ID</b> <b>HP001197</b> <b>HF_R_Chopper_Rot</b> <b>HP455191</b>  Subsch. ID : 70 Det. descr. : Single command chopper to position in redundant command-range	HC185289  1E0E0001 <hex> 2048 <dec>	
		Verify: Following value is 2048 (dec) <b>HF_DPR_CH_ROT2</b> <b>HM196191</b>	= -0.002 V	AND=ZAZ9E999
4		Set default OBSID/BBID		Next Step: END



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.02	HIFI_Set_OBS_ID  HIFI_Set_OBS_ID  <i>Command Parameter(s) :</i> HIFI_BB_ID            HP001197 HIFI_OBS_ID           HP000197  <i>Subsch. ID : 70</i> Det. descr. : Set Observation-ID and Building-Block-ID	HC014289  0 <hex> (Def) 0 <hex> (Def)	
		Verify Telemetry  BB_ID_per_hk            HM004190	= 0 <hex>	AND=ZAZ9E999
		Verify Telemetry  OBS_ID_per_hk          HM003190	= 0 <hex>	AND=ZAZ9E999
<b>End of Procedure</b>				