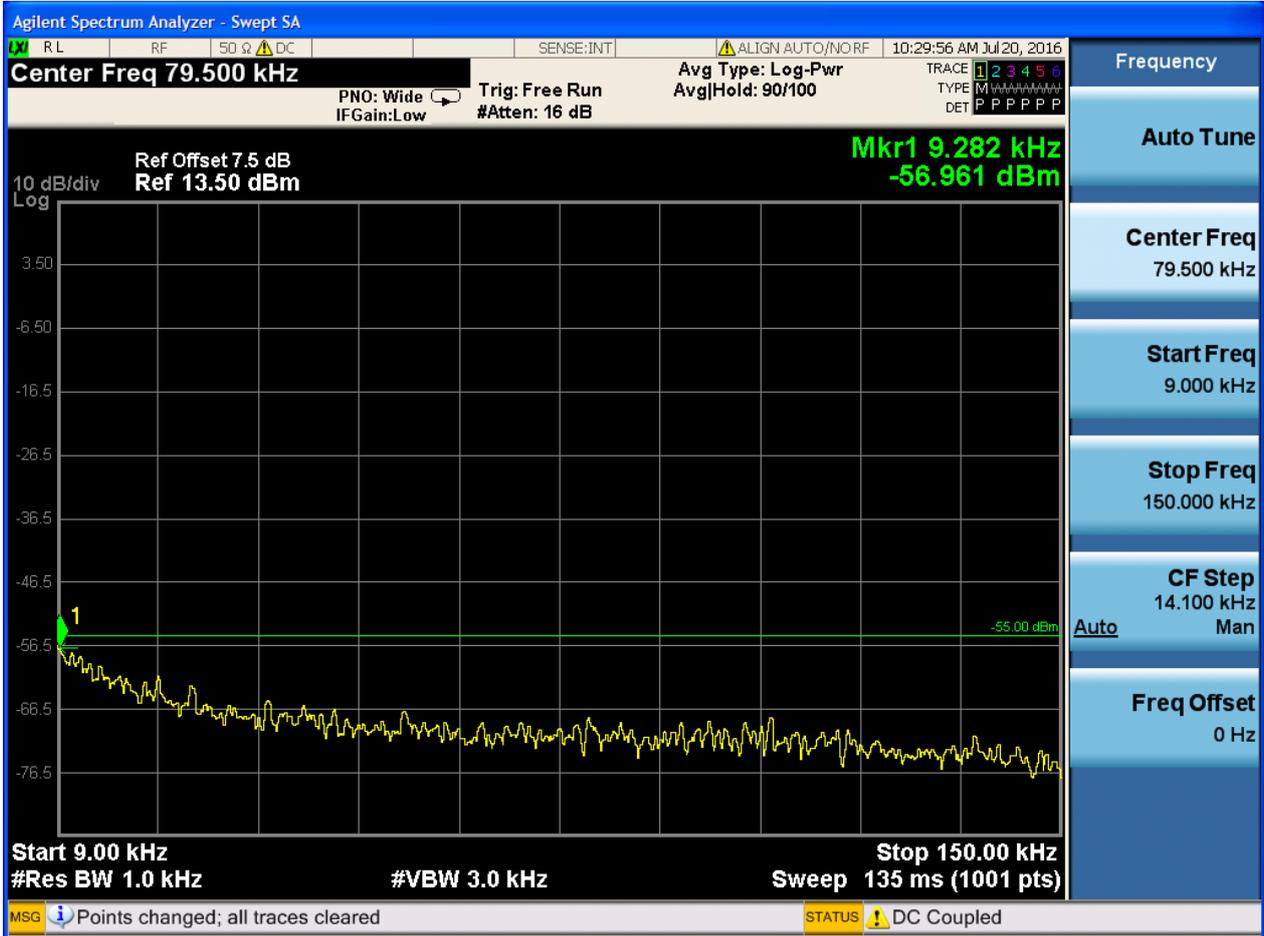### 6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0

Agilent Spectrum Analyzer - Swept SA

R L | RF | 50 Ω | AC | SENSE:INT | ⚠ALIGN AUTO/NO RF | 10:30:30 AM Jul 20, 2016

Center Freq 13.515000000 GHz

PNO: Fast
IFGain:Low

Trig: Free Run
#Atten: 28 dB

Avg Type: Log-Pwr
Avg|Hold: 57/100

TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P P P P P

Frequency

Auto Tune

Center Freq
13.515000000 GHz

Start Freq
30.000000 MHz

Stop Freq
27.000000000 GHz

CF Step
2.697000000 GHz
Auto   Man

Freq Offset
0 Hz

Ref Offset 7.5 dB
Ref 25.50 dBm
10 dB/div
Log

Mkr1 2.528 8 GHz
25.992 dBm

15.5
5.50
-4.50
-14.5
-24.5 → -25.00 dBm
-34.5
-44.5
-54.5
-64.5

Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz

Stop 27.00 GHz
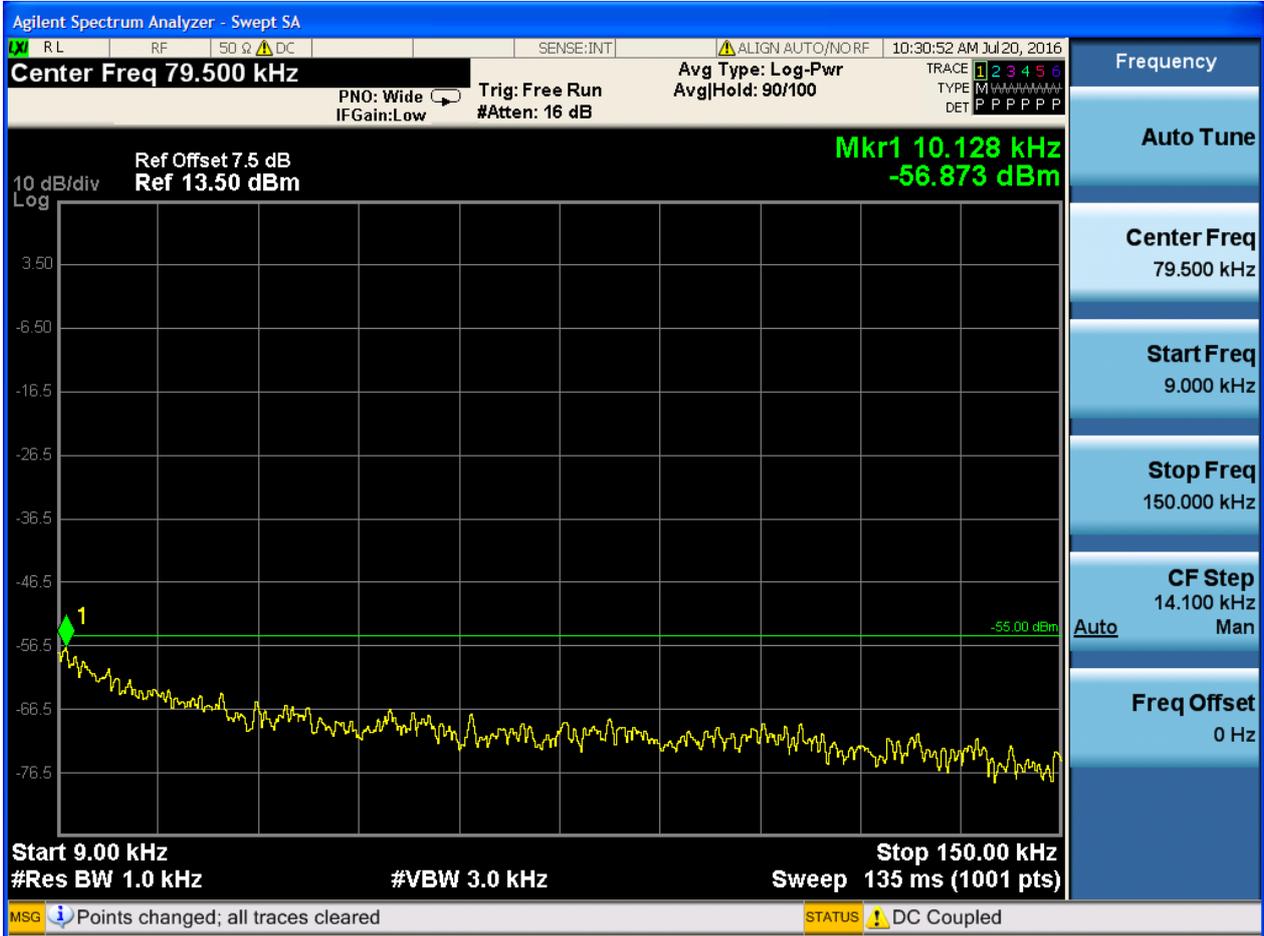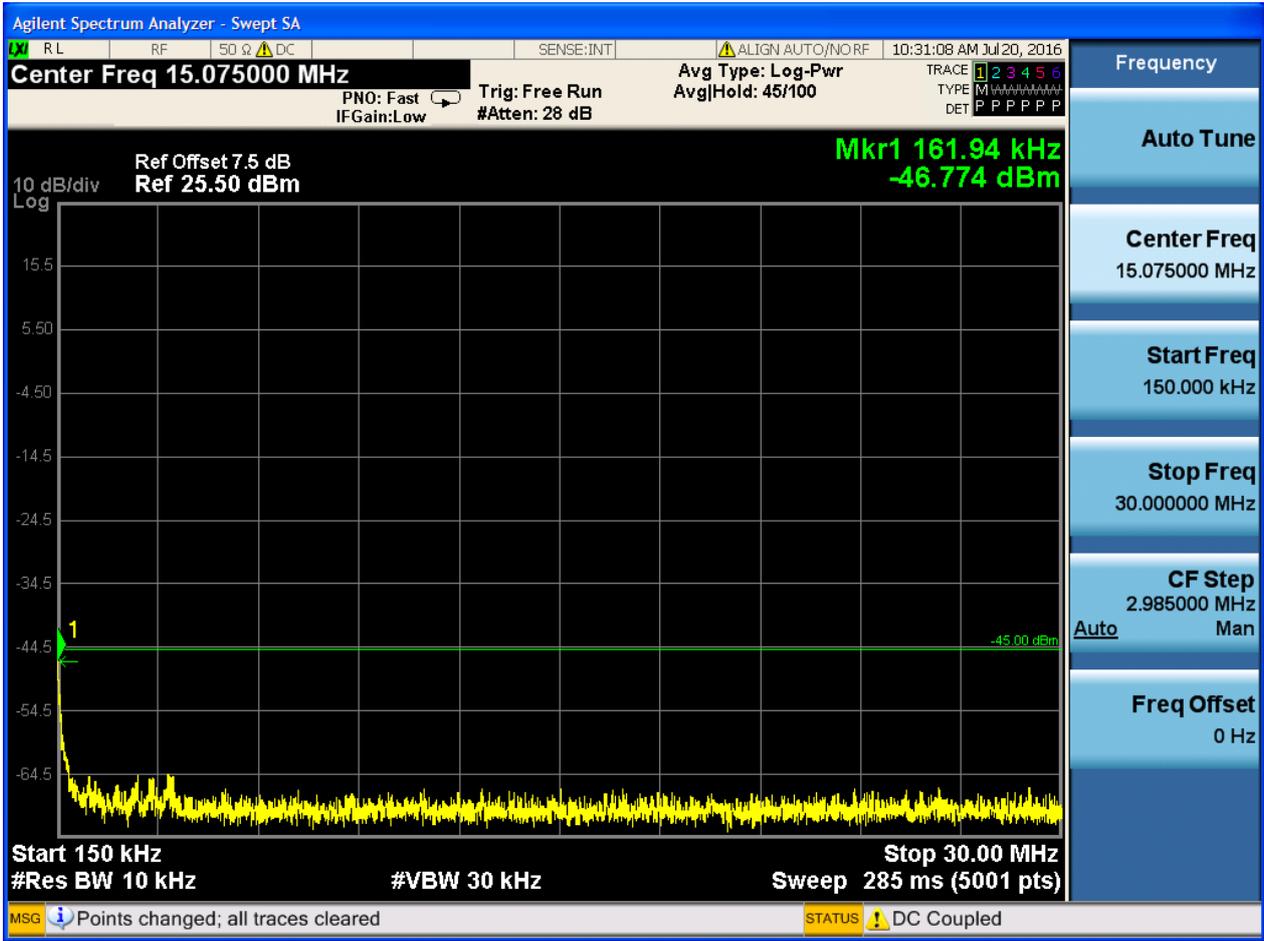**Sweep 69.3 ms (40001 pts)**

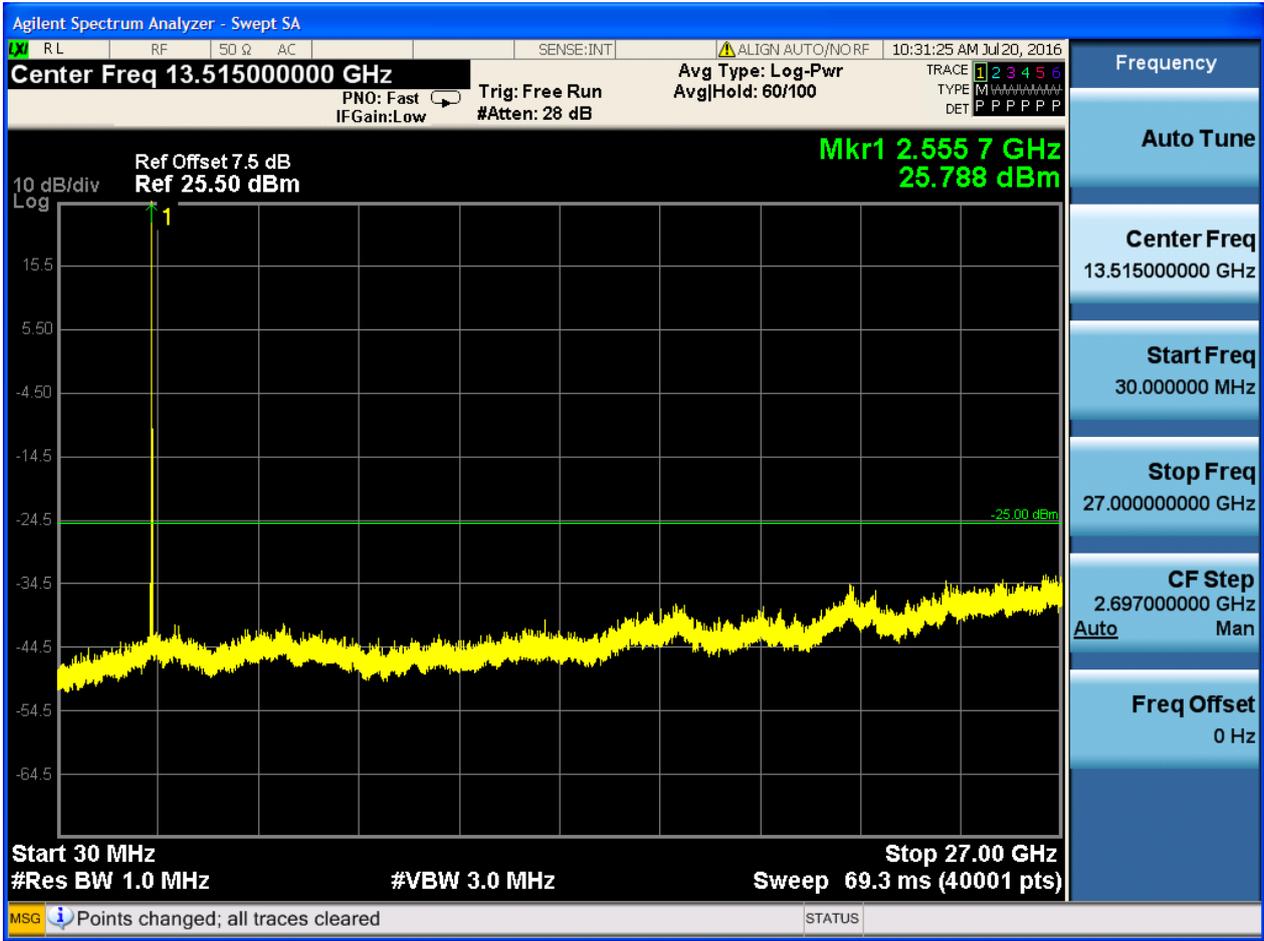MSG ⓘ Points changed; all traces cleared   STATUS

6.1.1.1.3.3 Test Channel = HCH
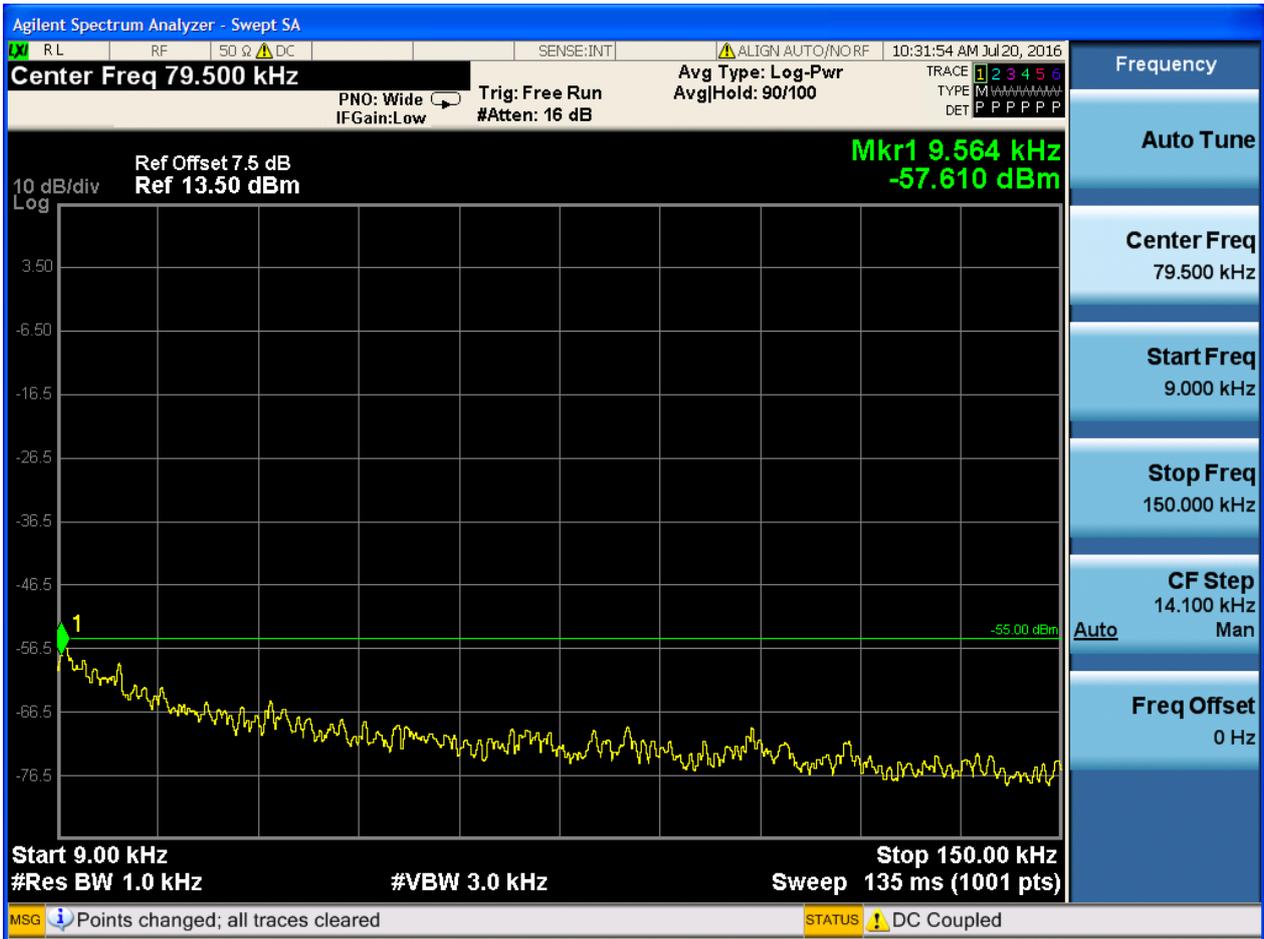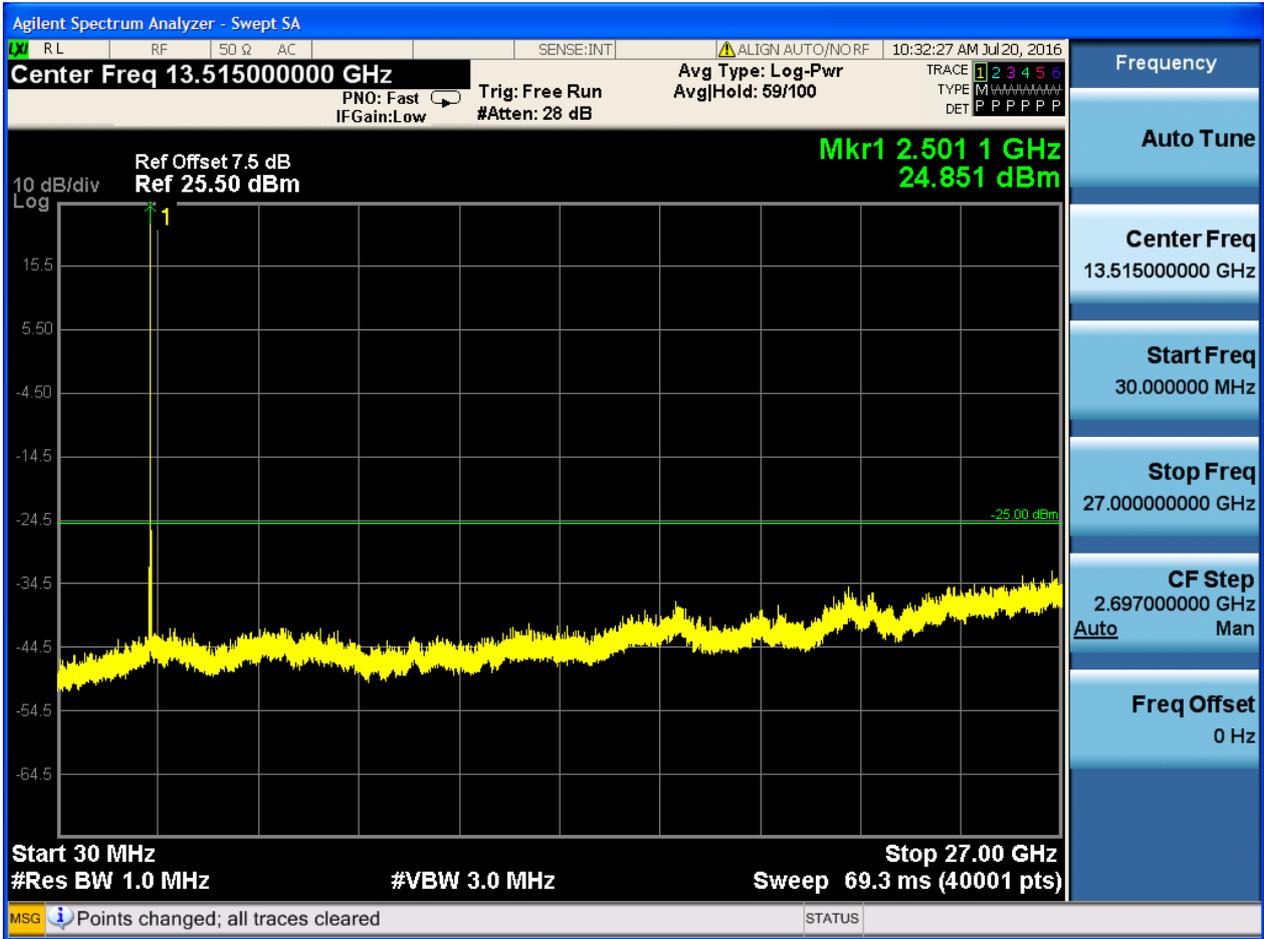
6.1.1.1.3.3.1 Test RB = RB1#0

6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH
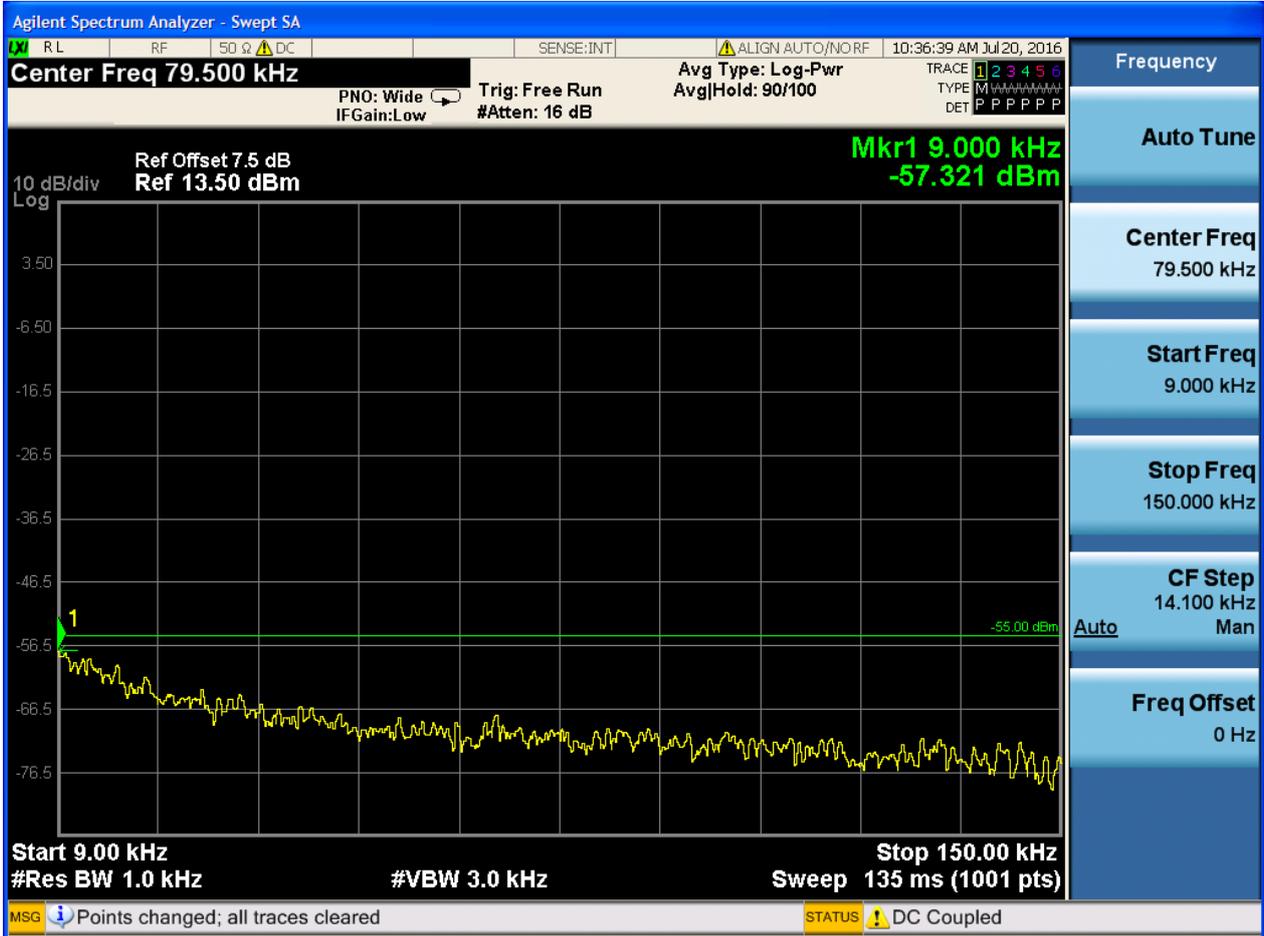
6.1.1.1.4.1.1 Test RB = RB1#0

6.1.1.1.4.2 Test Channel = MCH
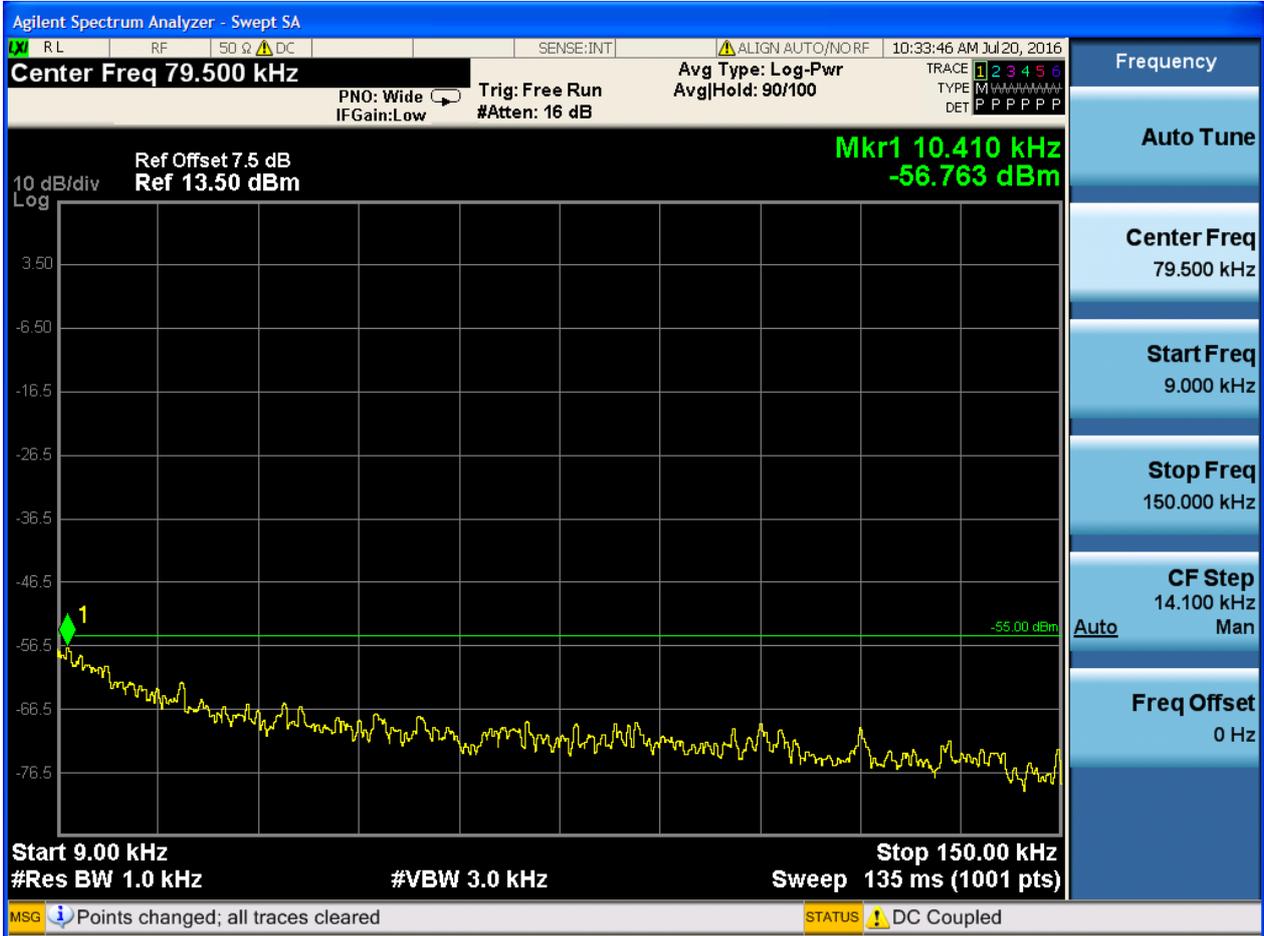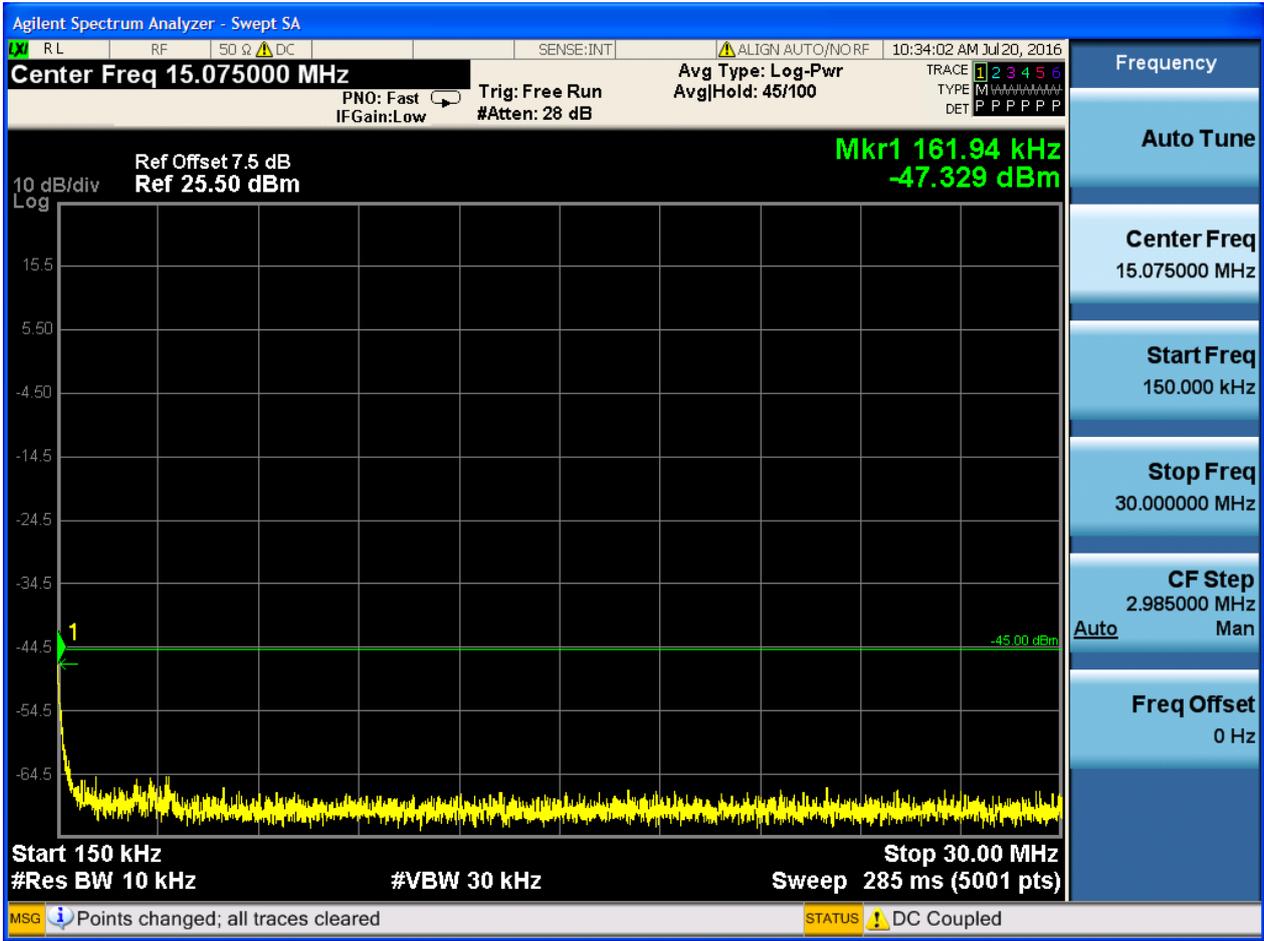
6.1.1.1.4.2.1 Test RB = RB1#0
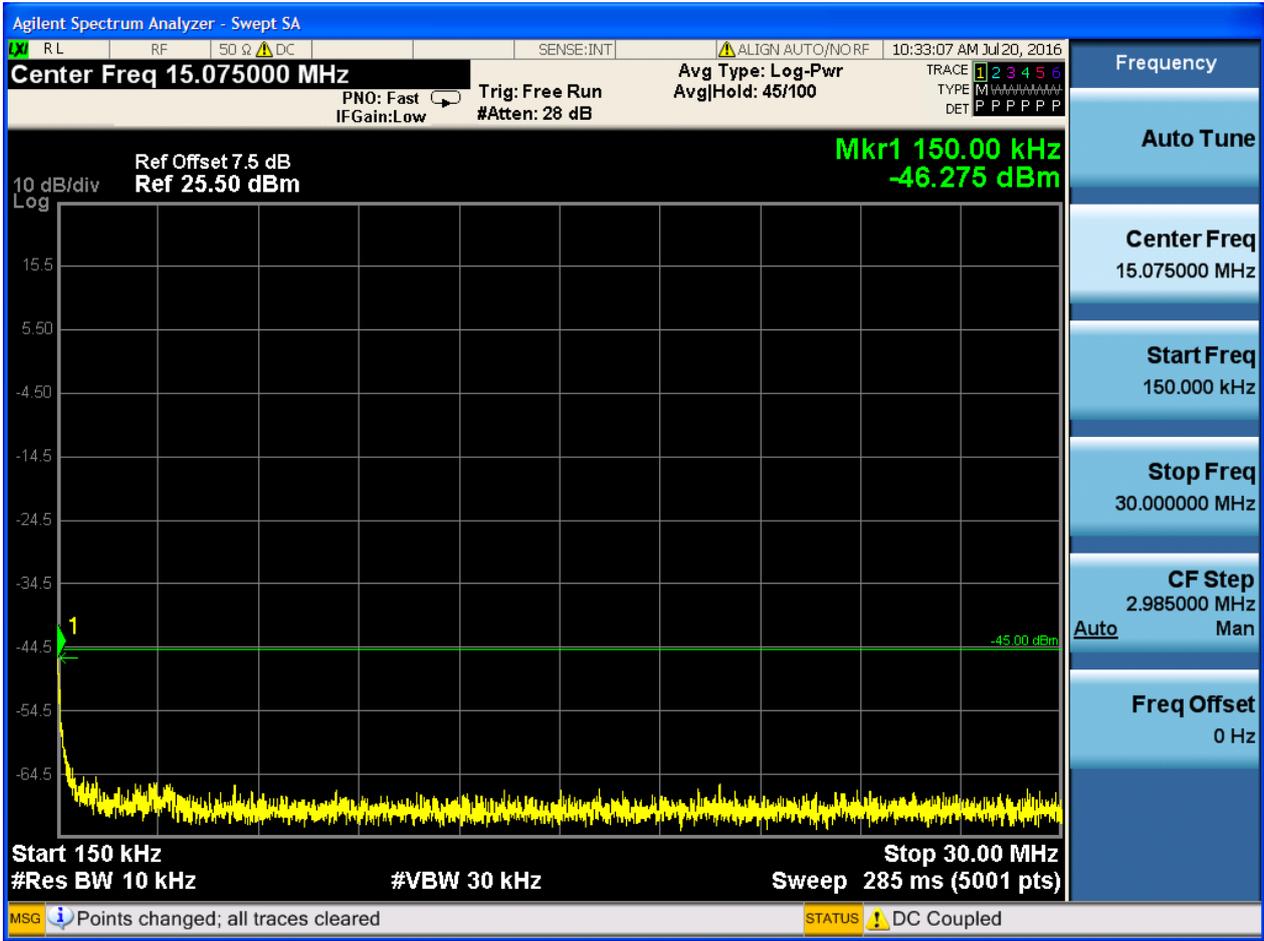
6.1.1.1.4.3 Test Channel = HCH
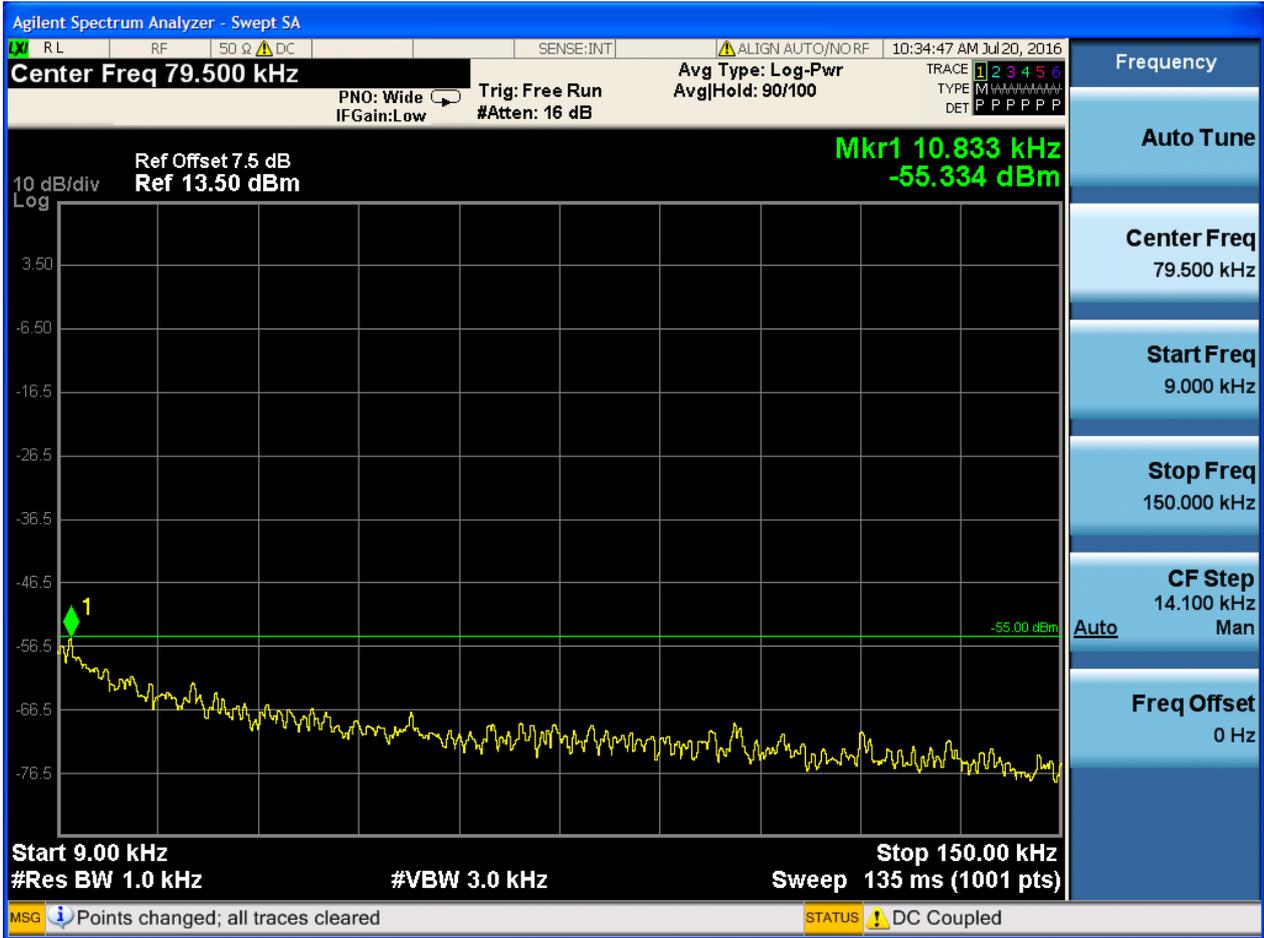
6.1.1.1.4.3.1 Test RB = RB1#0

6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0

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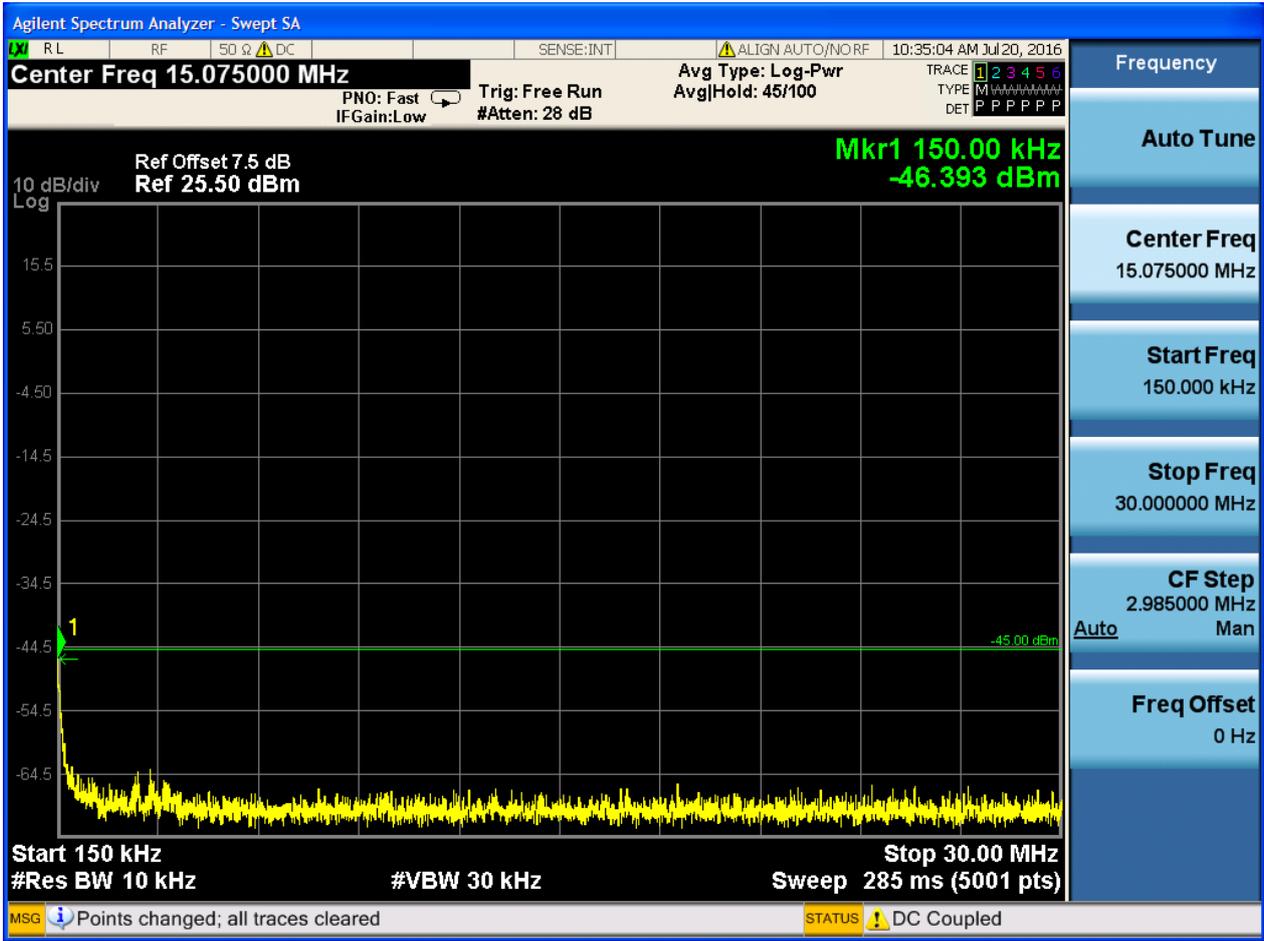
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0

Agilent Spectrum Analyzer - Swept SA

R L   RF   50 Ω   AC   SENSE:INT   ⚠ALIGN AUTO/NORF   10:36:16 AM Jul 20, 2016

Center Freq 13.515000000 GHz

Avg Type: Log-Pwr
Avg|Hold: 57/100
TRACE 1 2 3 4 5 6
TYPE M WWWWWW
DET P P P P P

PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB

Mkr1 2.532 8 GHz
25.731 dBm

Ref Offset 7.5 dB
10 dB/div
Ref 25.50 dBm
Log

15.5

5.50

-4.50

-14.5

-24.5   -25.00 dBm

-34.5

-44.5

-54.5

-64.5

Start 30 MHz   Stop 27.00 GHz
#Res BW 1.0 MHz   #VBW 3.0 MHz   Sweep 69.3 ms (40001 pts)

MSG ℹ Points changed; all traces cleared   STATUS

Frequency

Auto Tune

Center Freq
13.515000000 GHz

Start Freq
30.000000 MHz

Stop Freq
27.000000000 GHz

CF Step
2.697000000 GHz
Auto   Man

Freq Offset
0 Hz

6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0

6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0
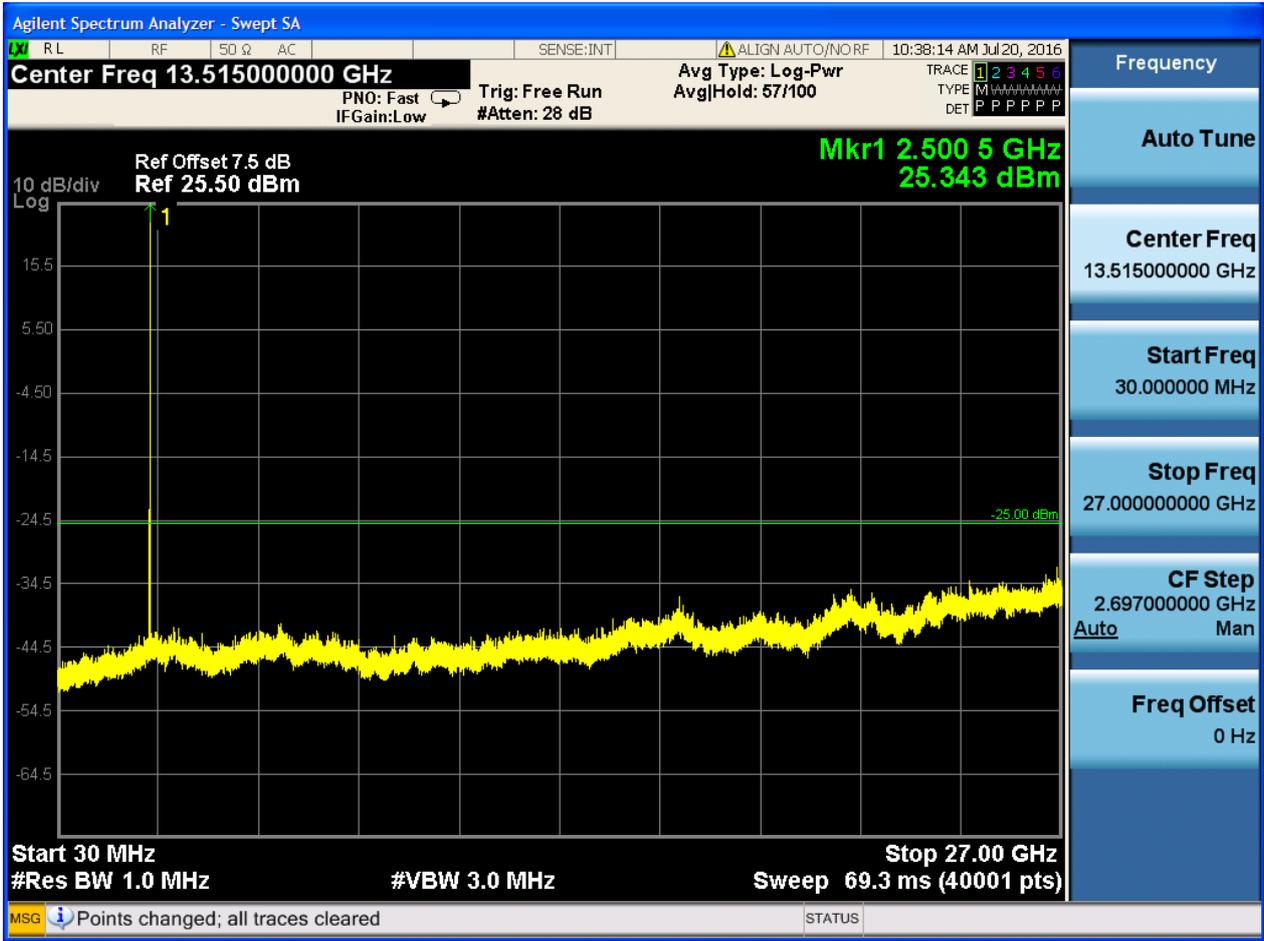
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0

6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0
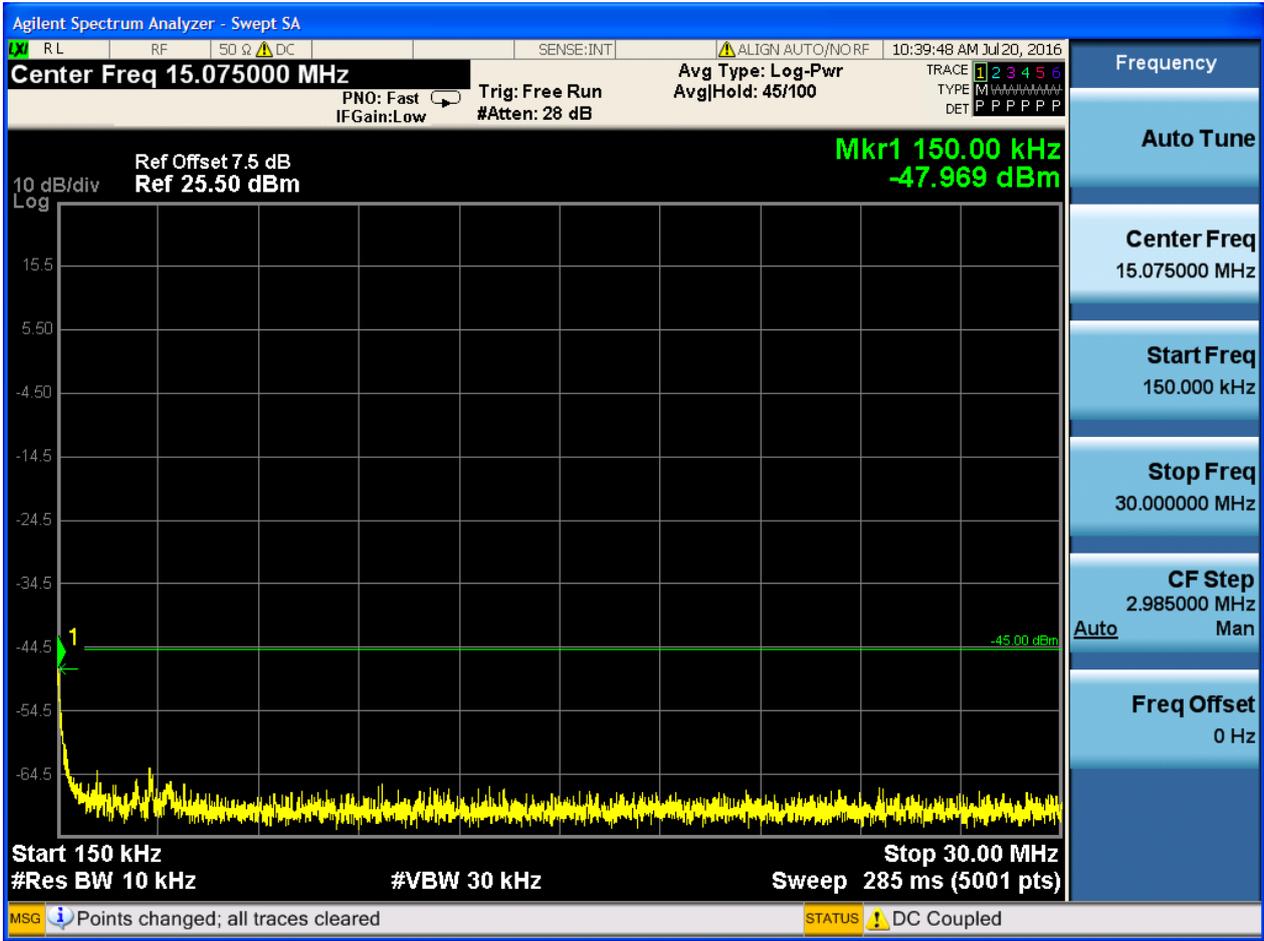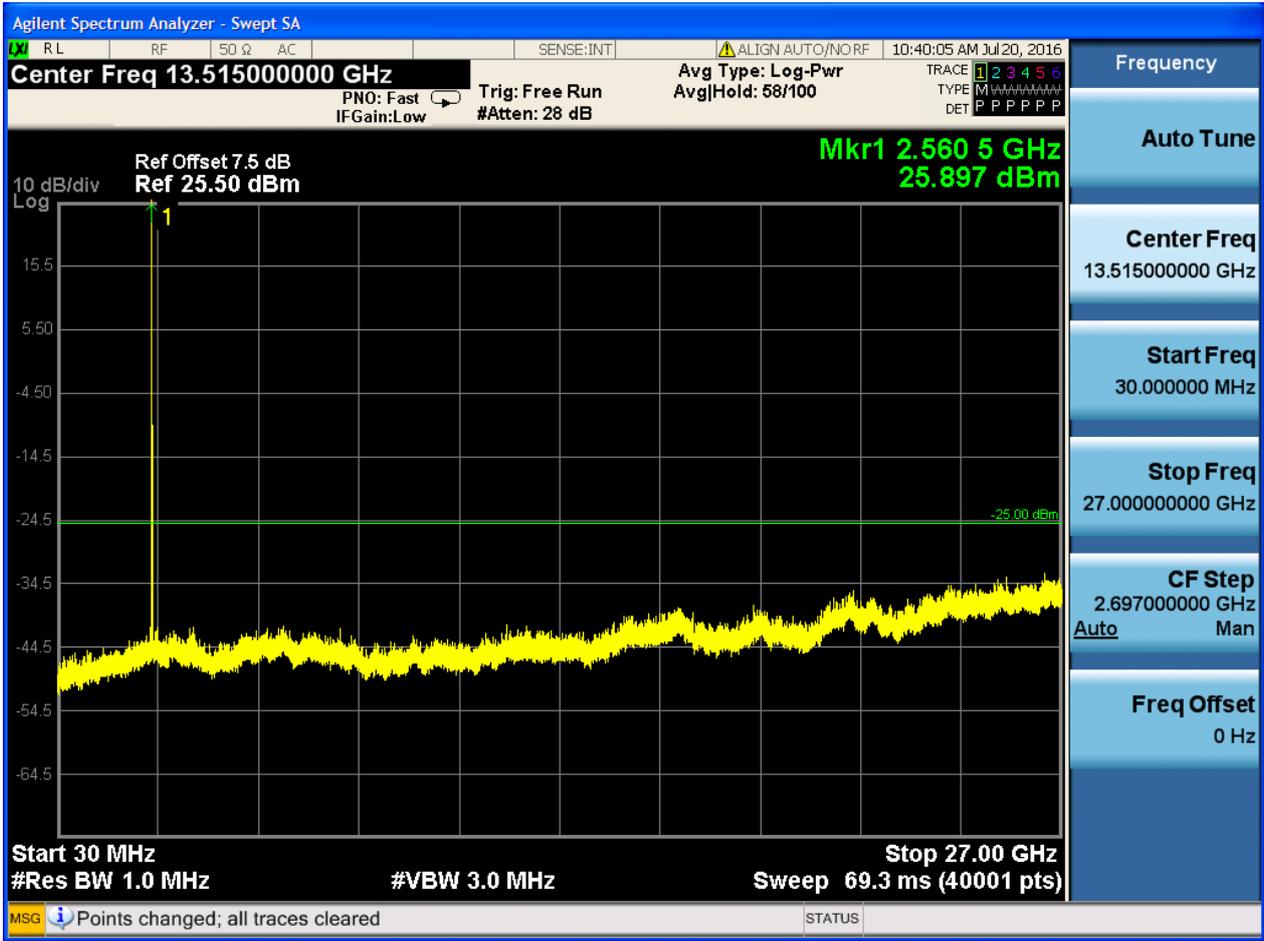
6.1.1.2.3 Test Bandwidth = 15

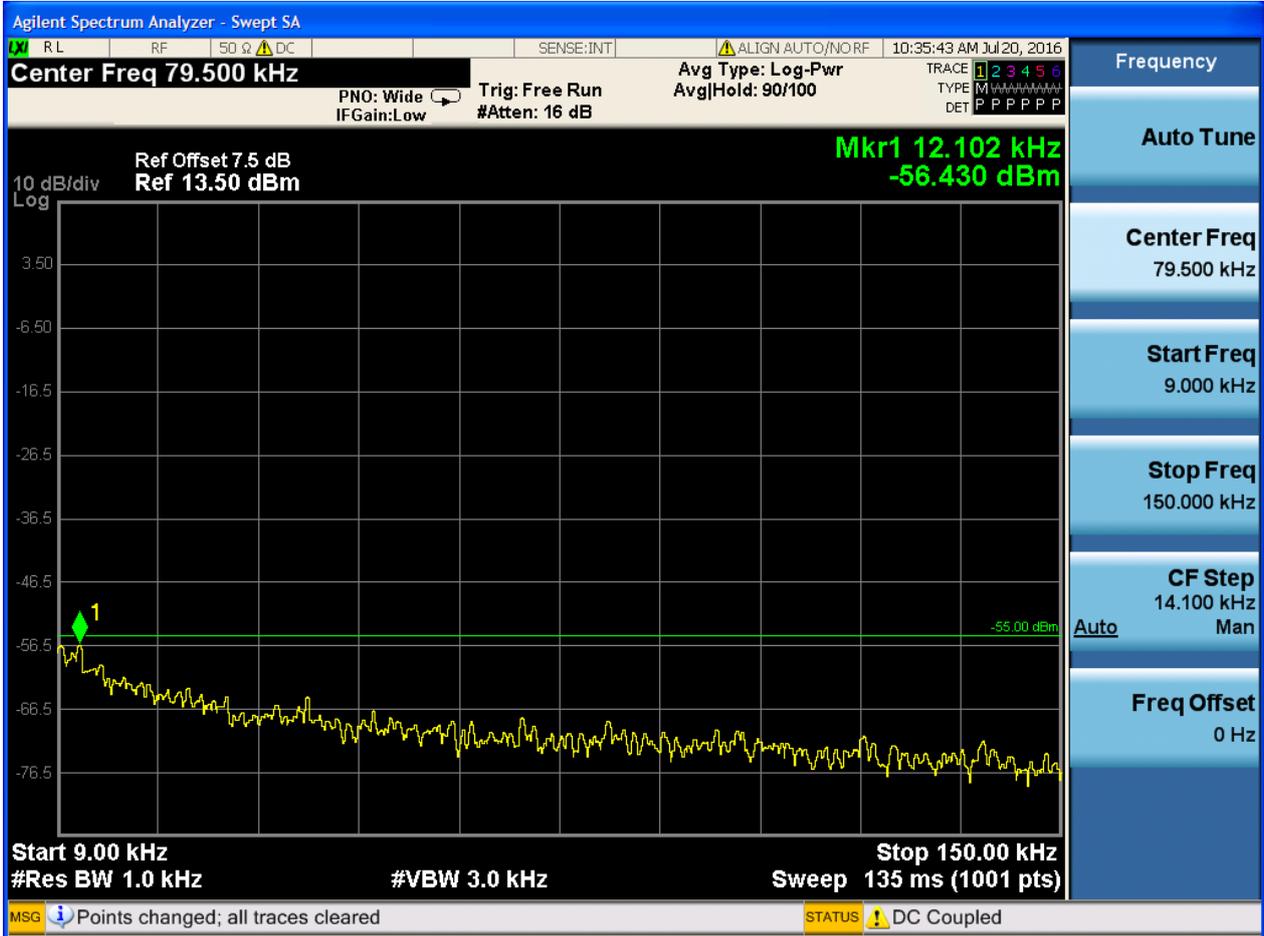### 6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0
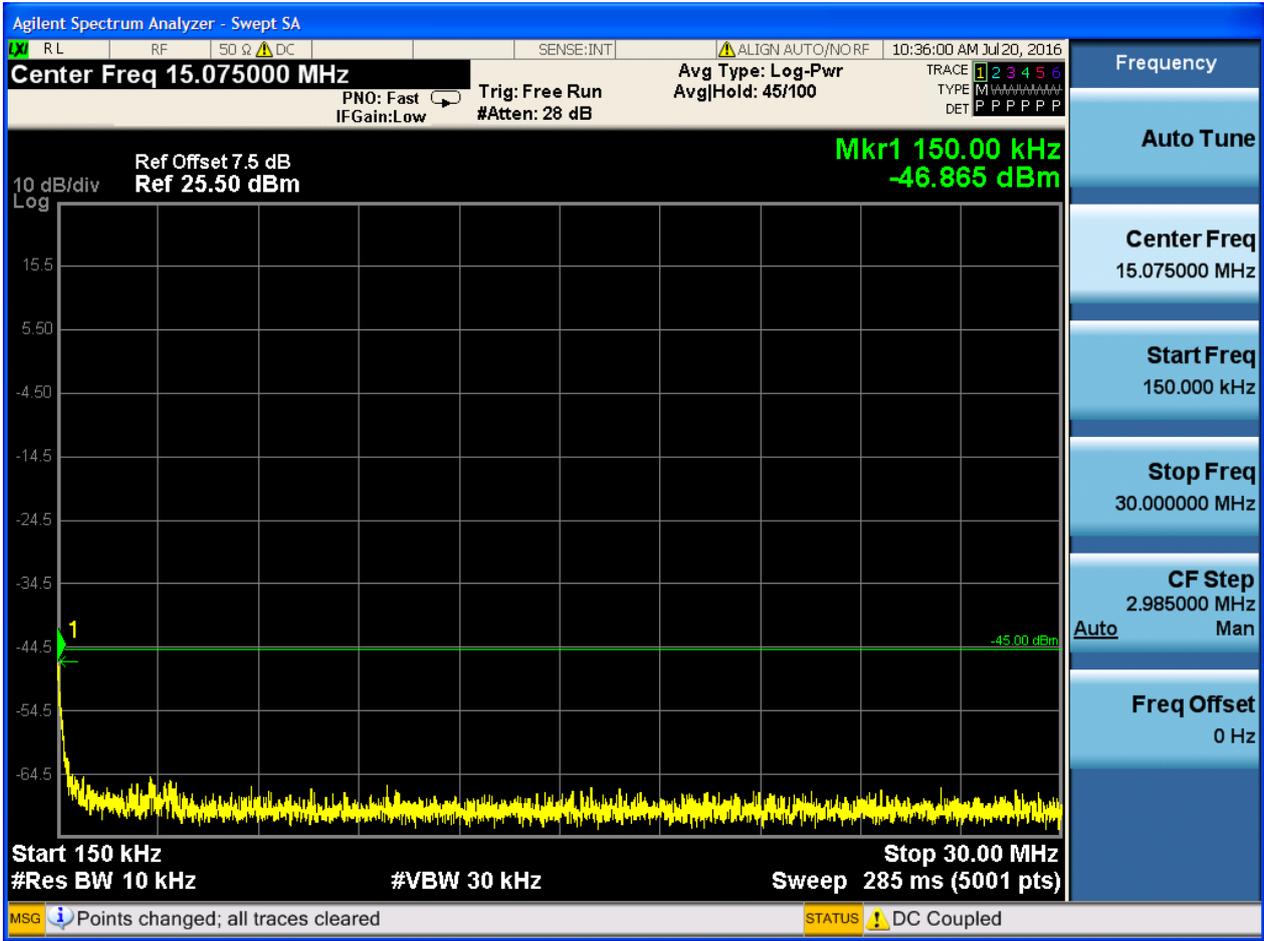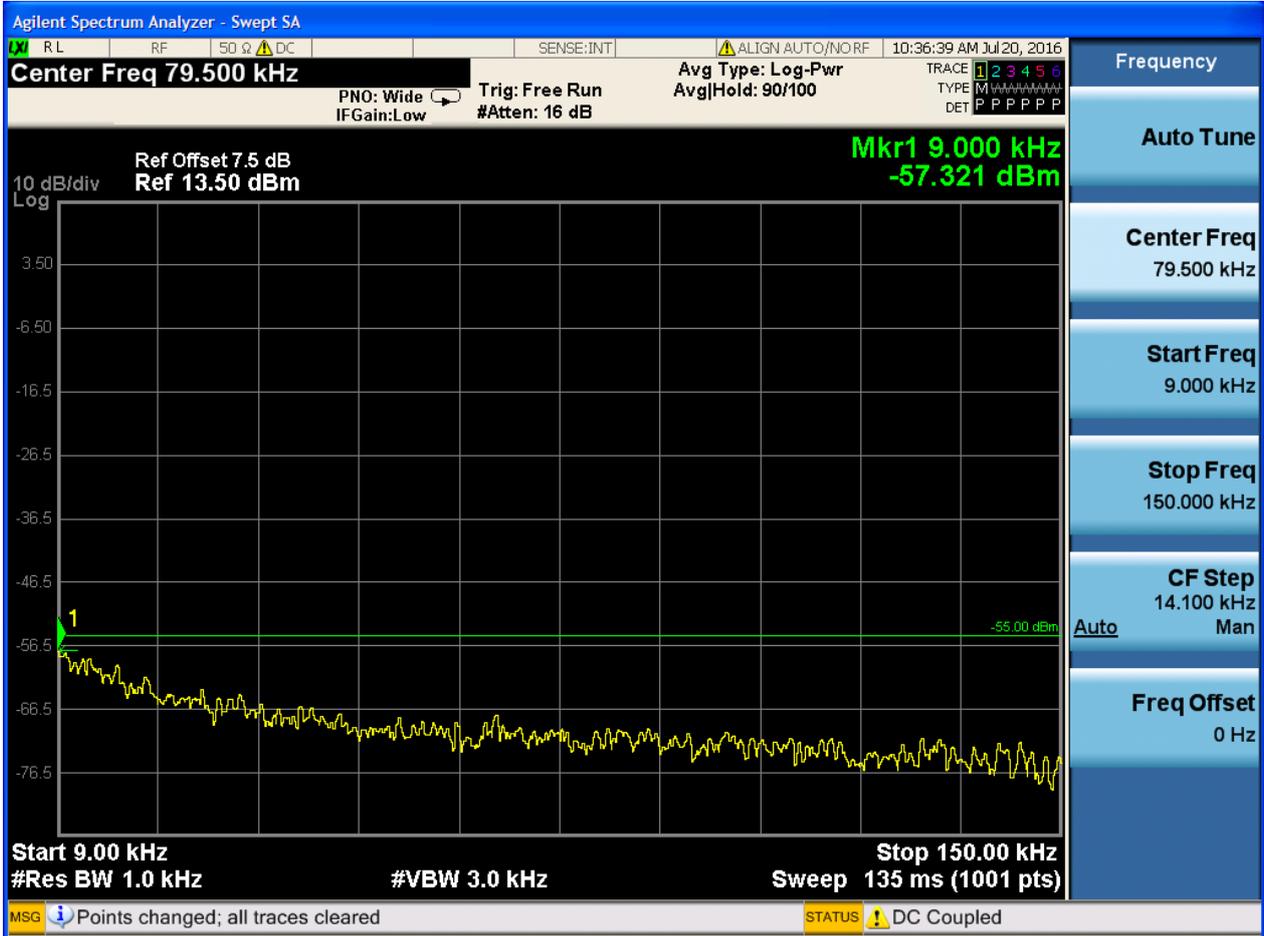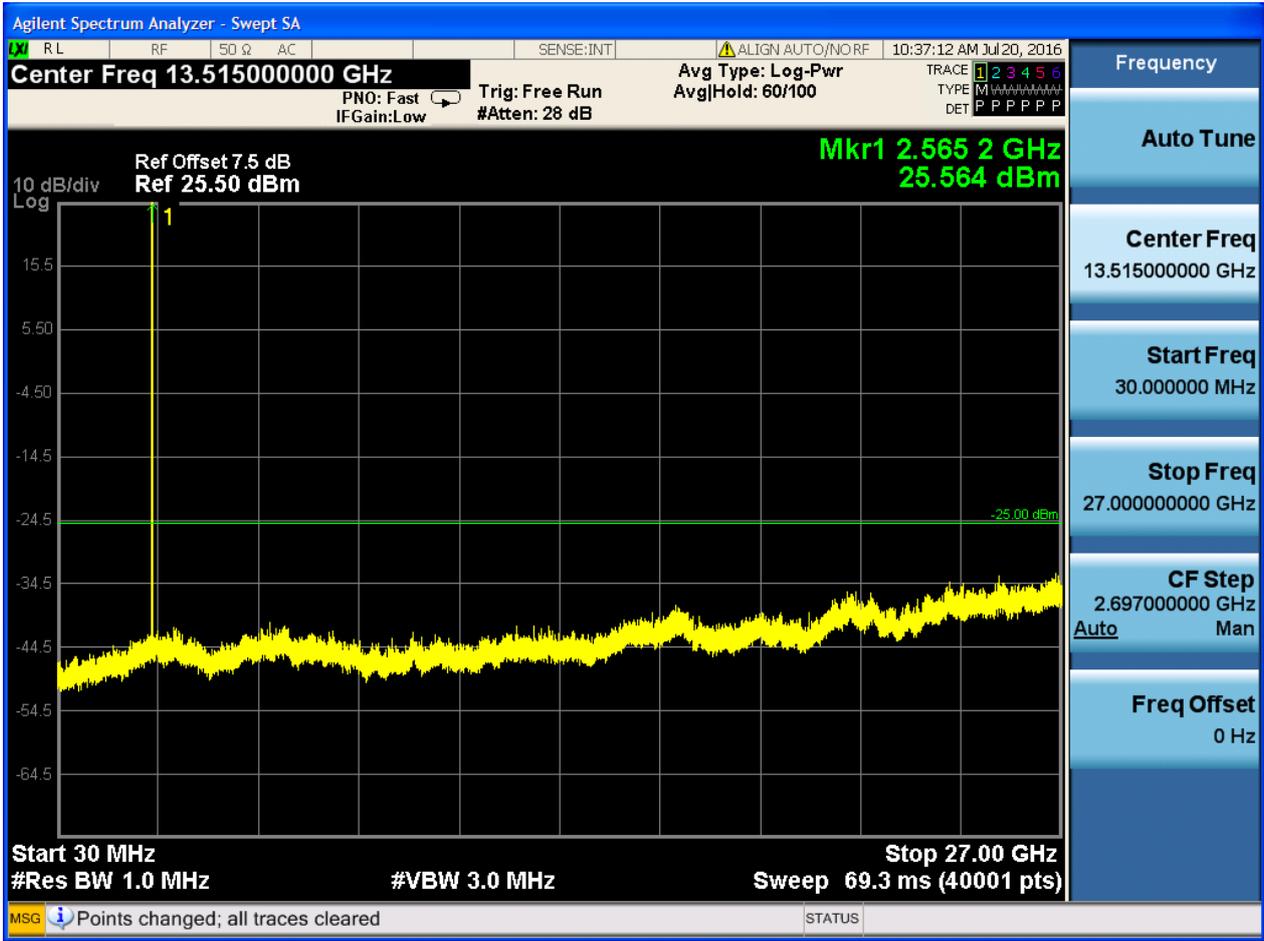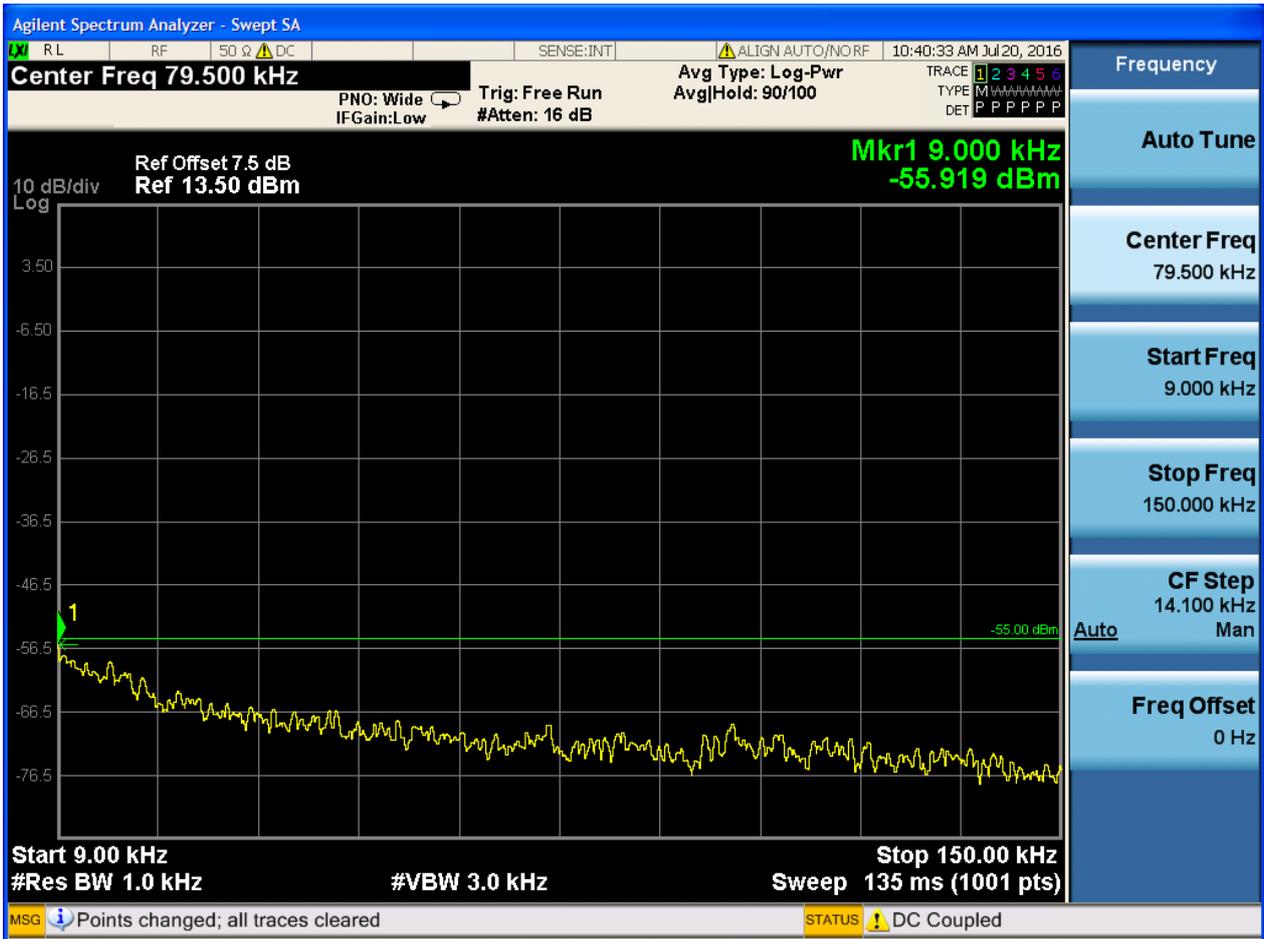
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0
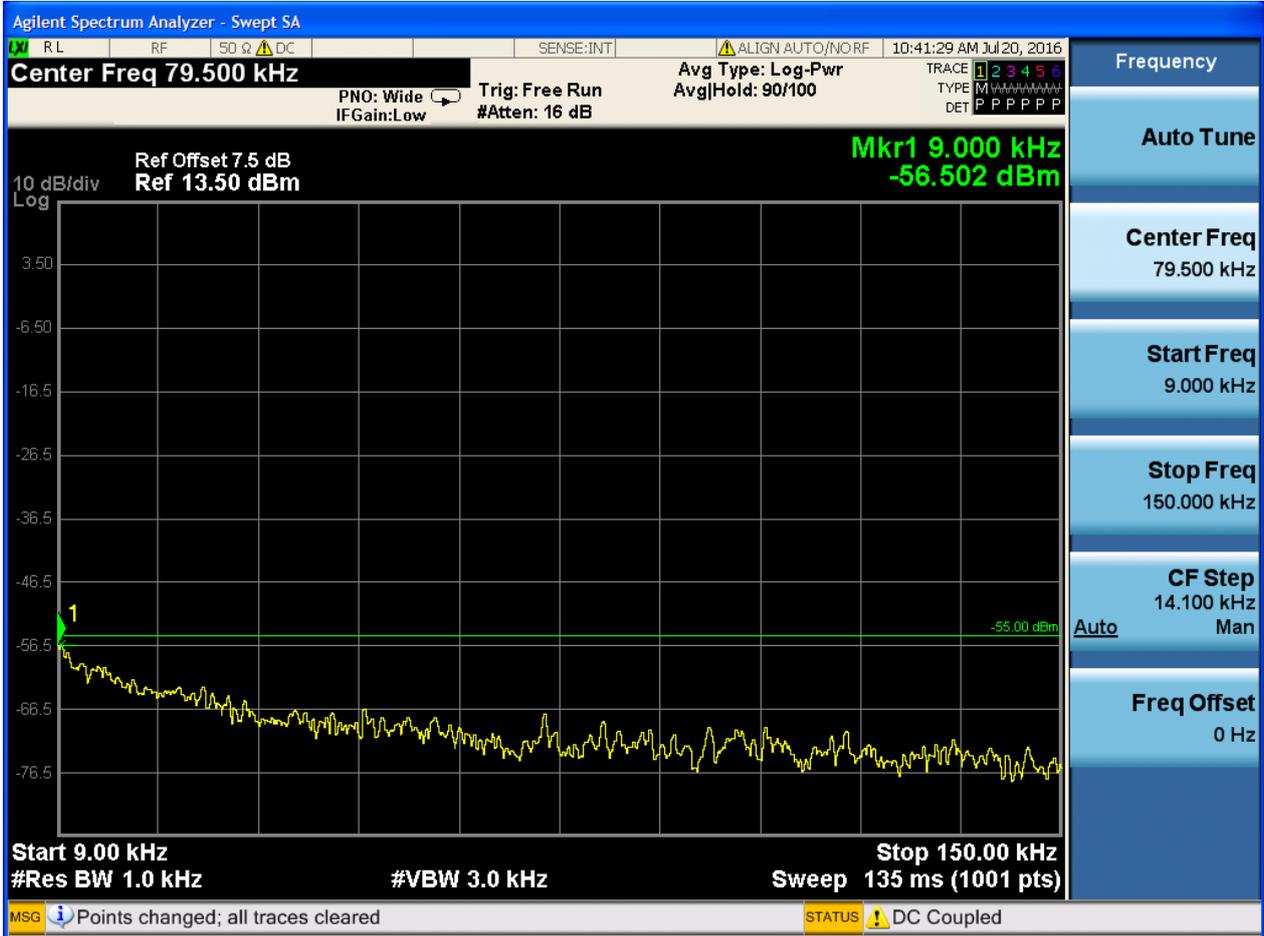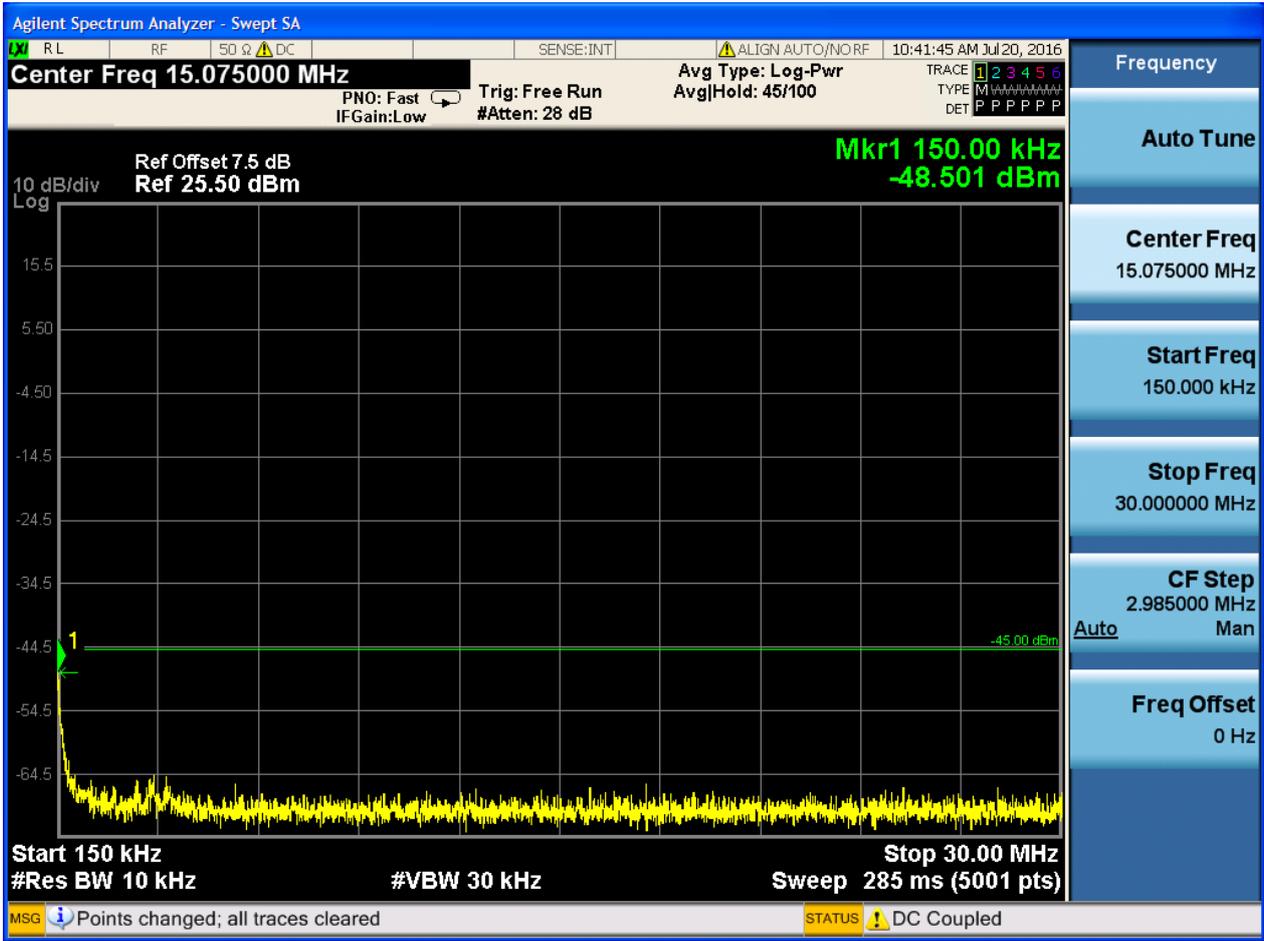
6.1.1.2.3.3 Test Channel = HCH
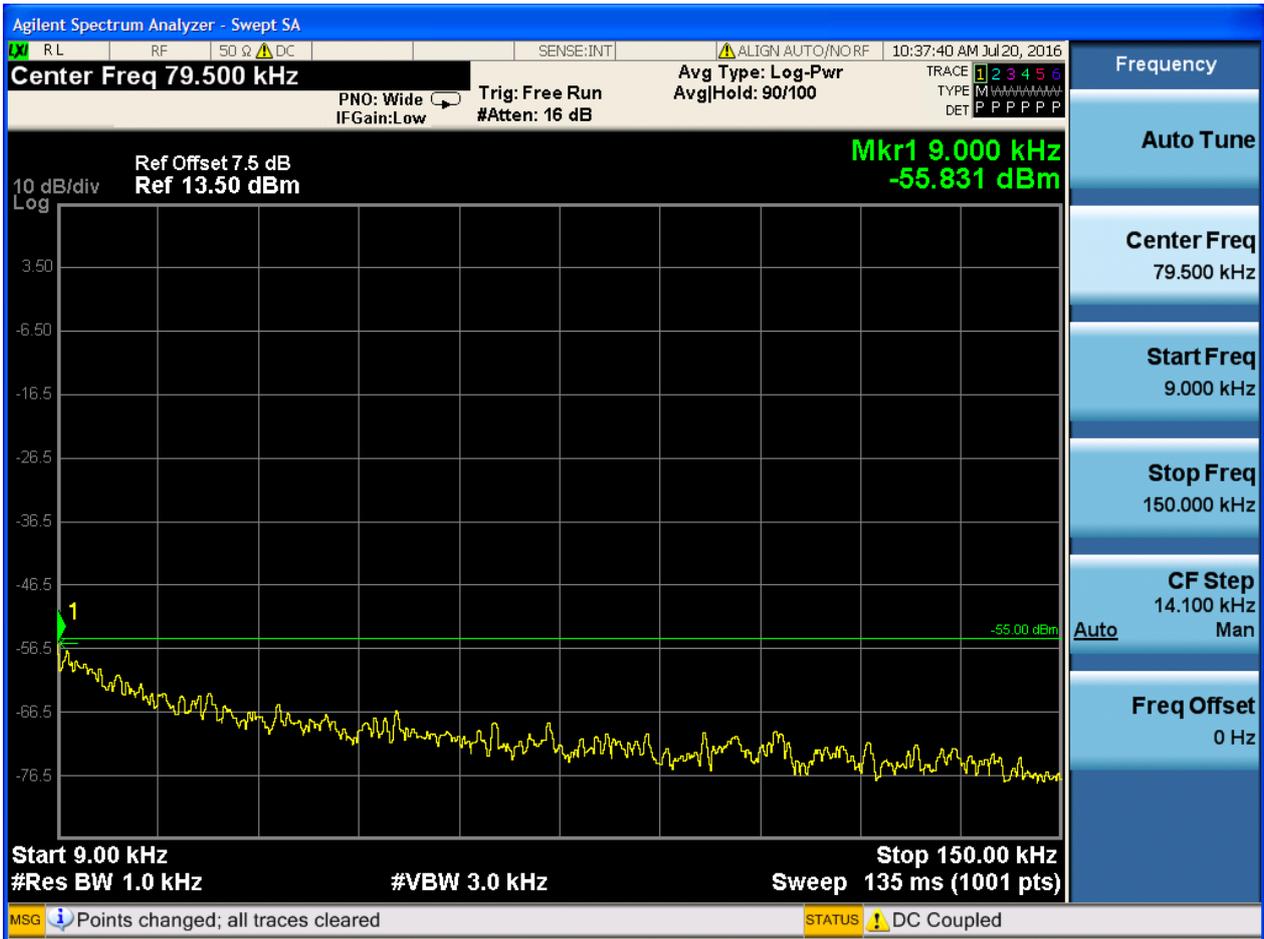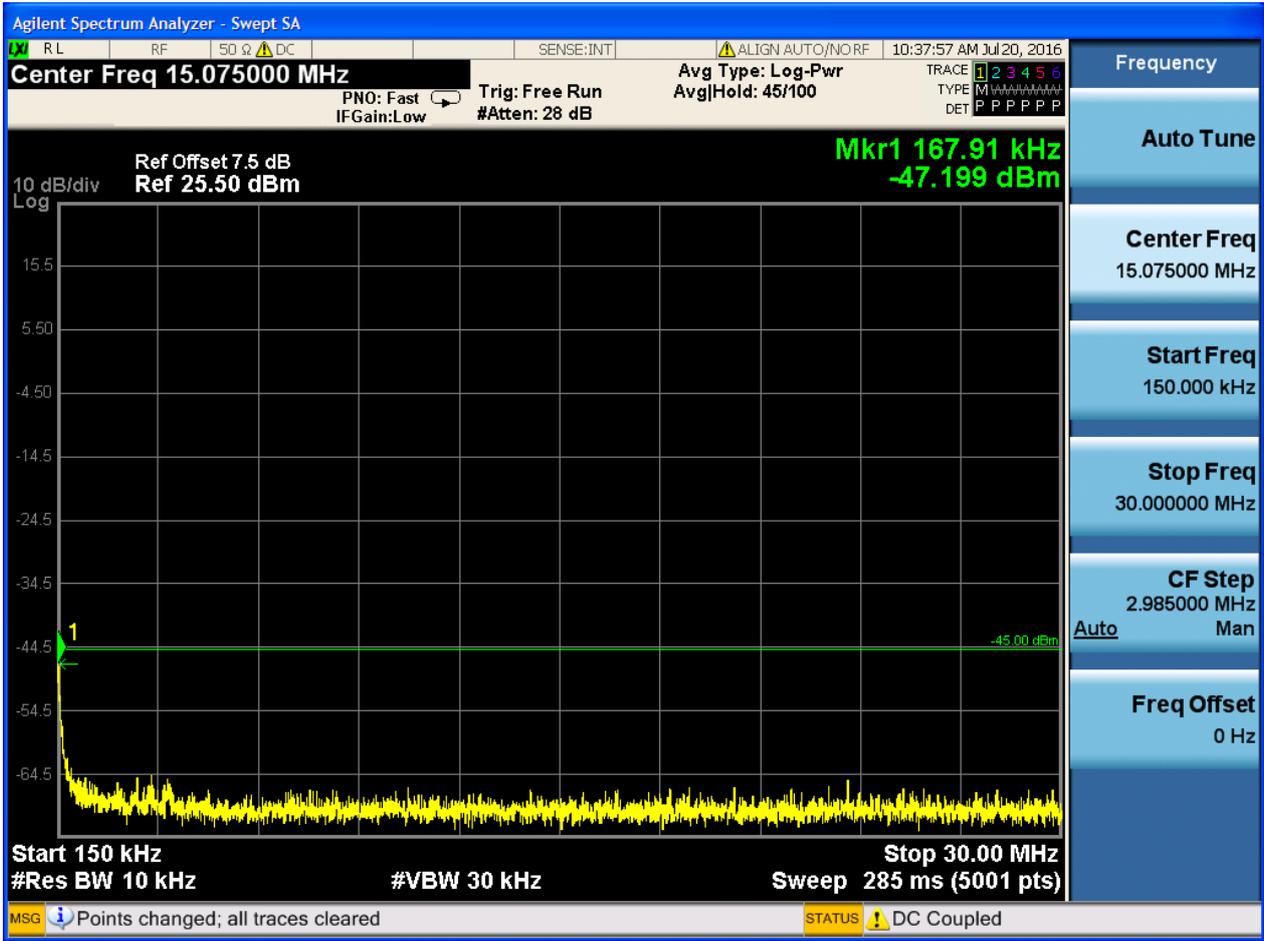
6.1.1.2.3.3.1 Test RB = RB1#0
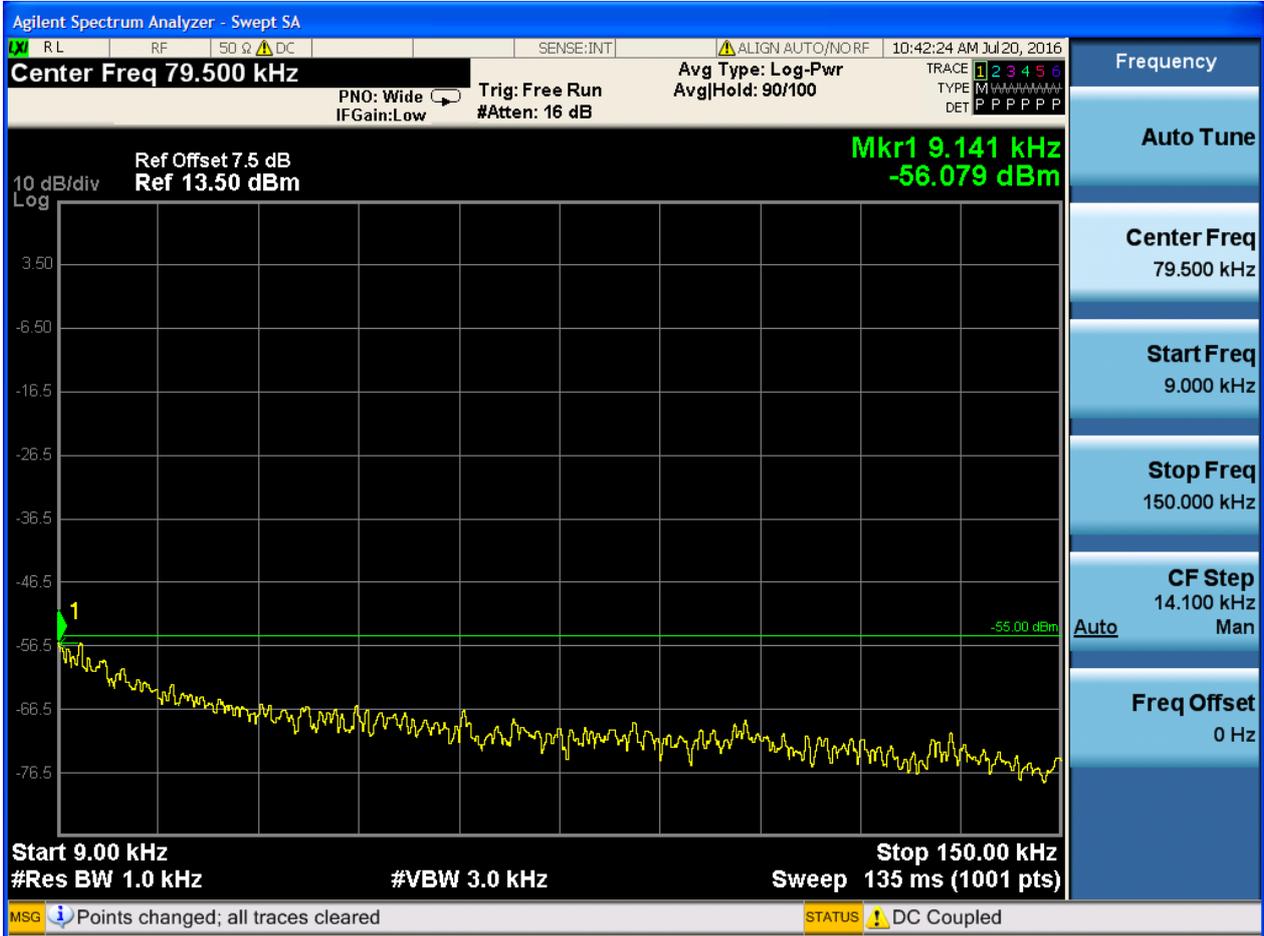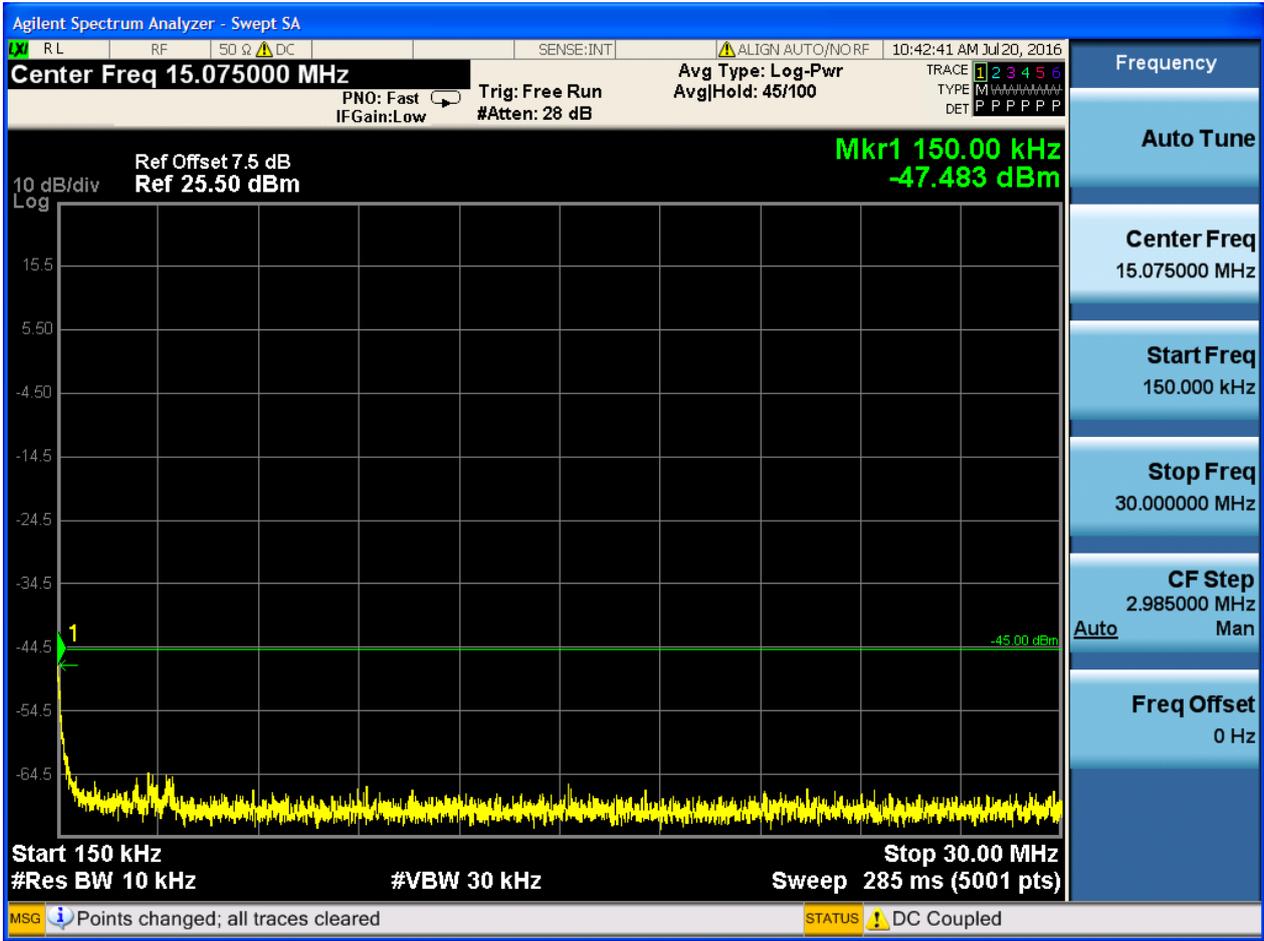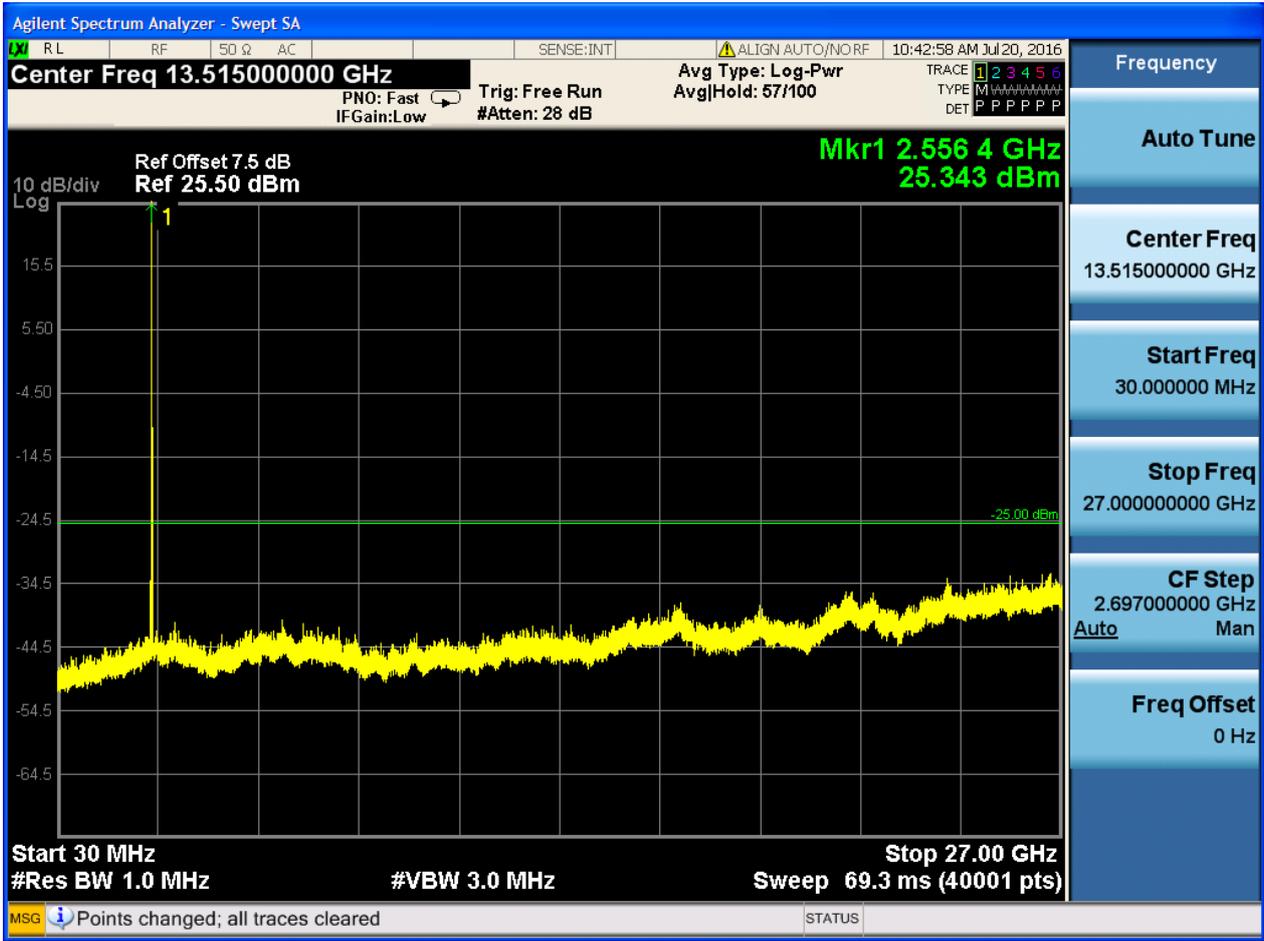
6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

Agilent Spectrum Analyzer - Swept SA

| LXI | R L | | RF | 50 Ω | AC | | | SENSE:INT | | ⚠ ALIGN AUTO/NO RF | 10:43:59 AM Jul 20, 2016 |

Center Freq 13.515000000 GHz

PNO: Fast
IFGain:Low

Trig: Free Run
#Atten: 28 dB

Avg Type: Log-Pwr
Avg|Hold: 58/100

TRACE 1 2 3 4 5 6
TYPE M WWWWWW
DET P P P P P

Mkr1 2.501 1 GHz
24.701 dBm

Ref Offset 7.5 dB
Ref 25.50 dBm

10 dB/div
Log

15.5

5.50

-4.50

-14.5

-24.5   -25.00 dBm

-34.5

-44.5

-54.5

-64.5

Start 30 MHz   **Stop 27.00 GHz**
#Res BW 1.0 MHz   **#VBW 3.0 MHz**   **Sweep 69.3 ms (40001 pts)**

MSG ⓘ Points changed; all traces cleared   STATUS

Frequency

Auto Tune

Center Freq
13.515000000 GHz

Start Freq
30.000000 MHz

Stop Freq
27.000000000 GHz

CF Step
2.697000000 GHz
Auto   Man

Freq Offset
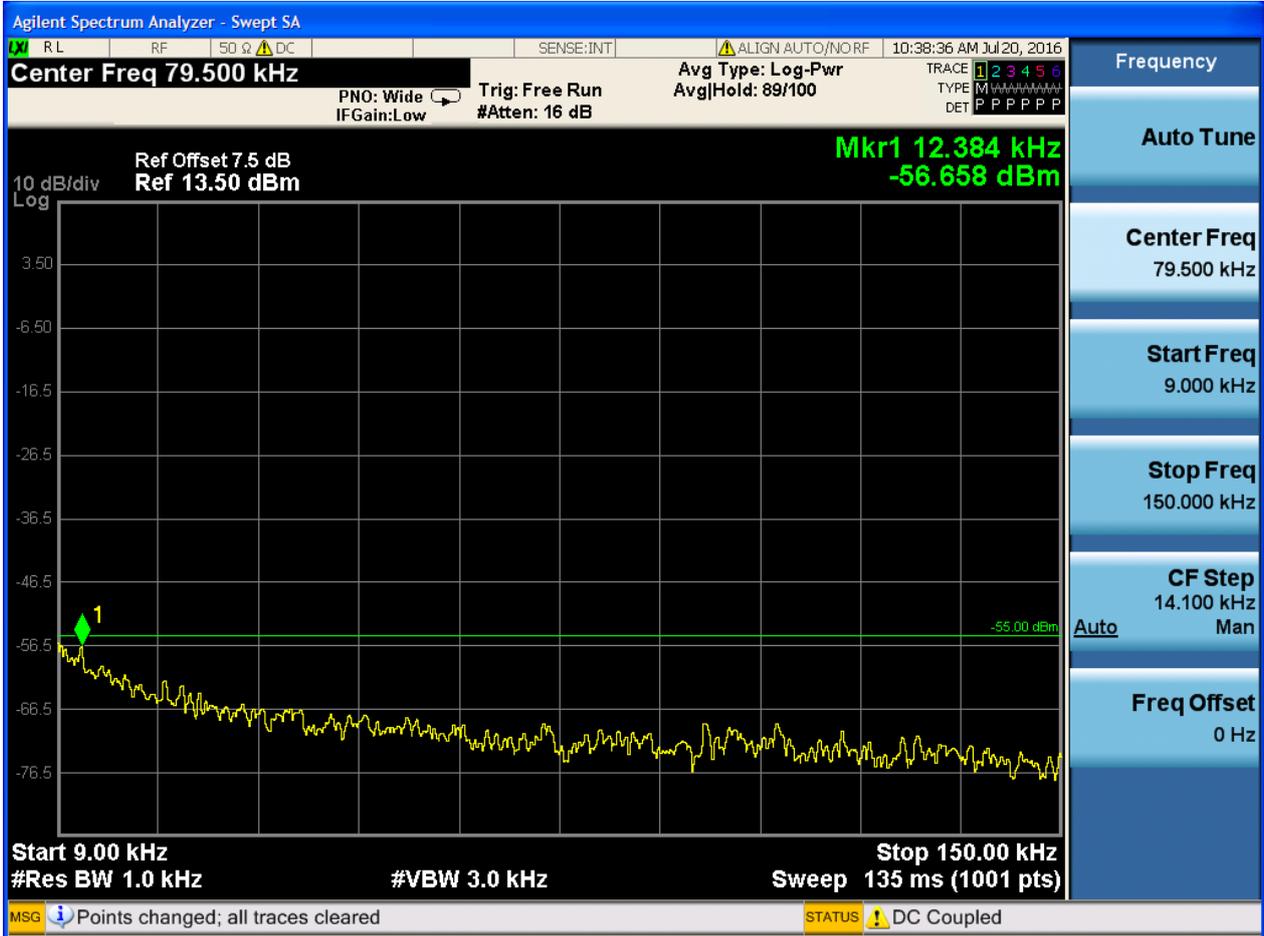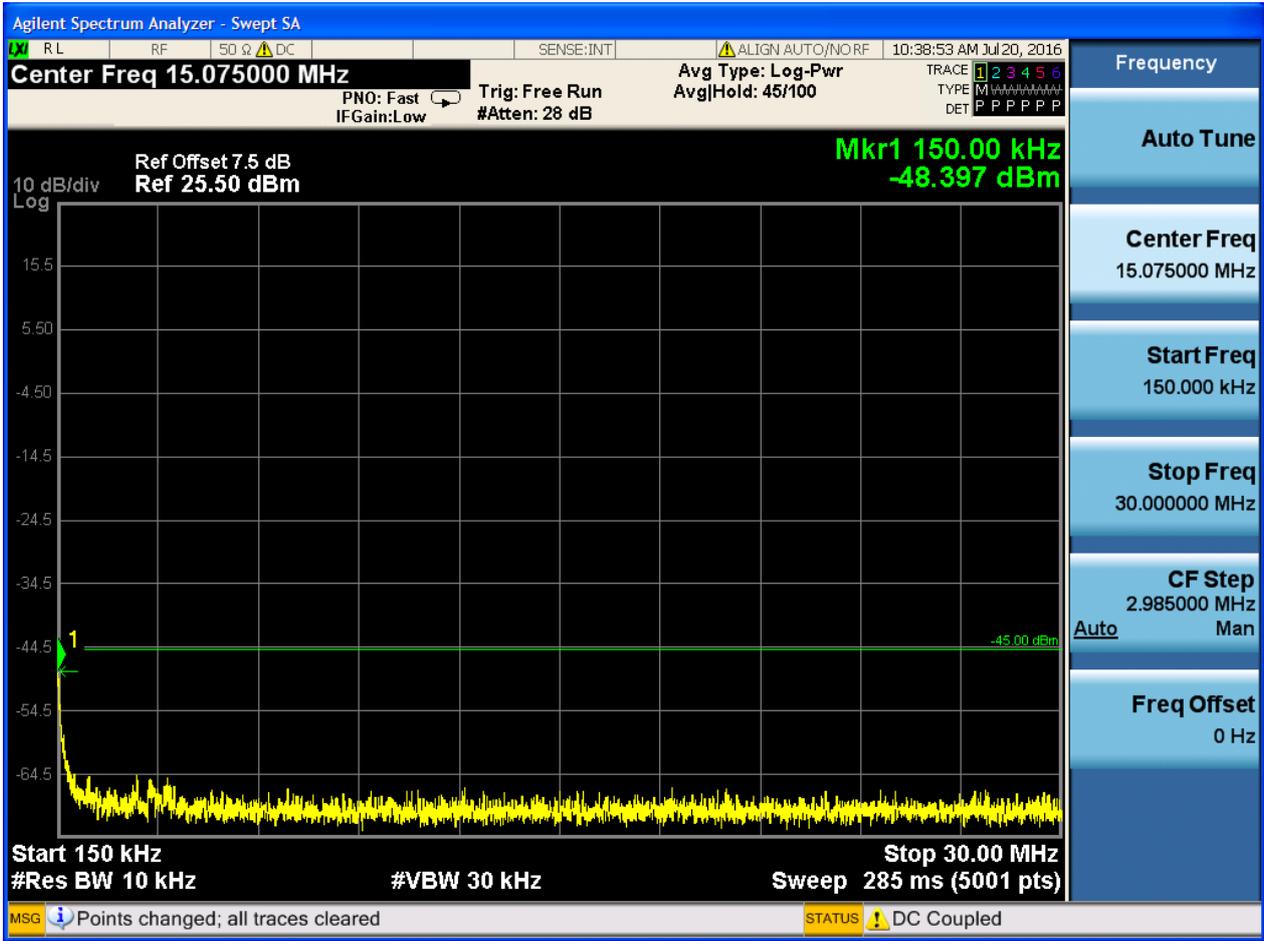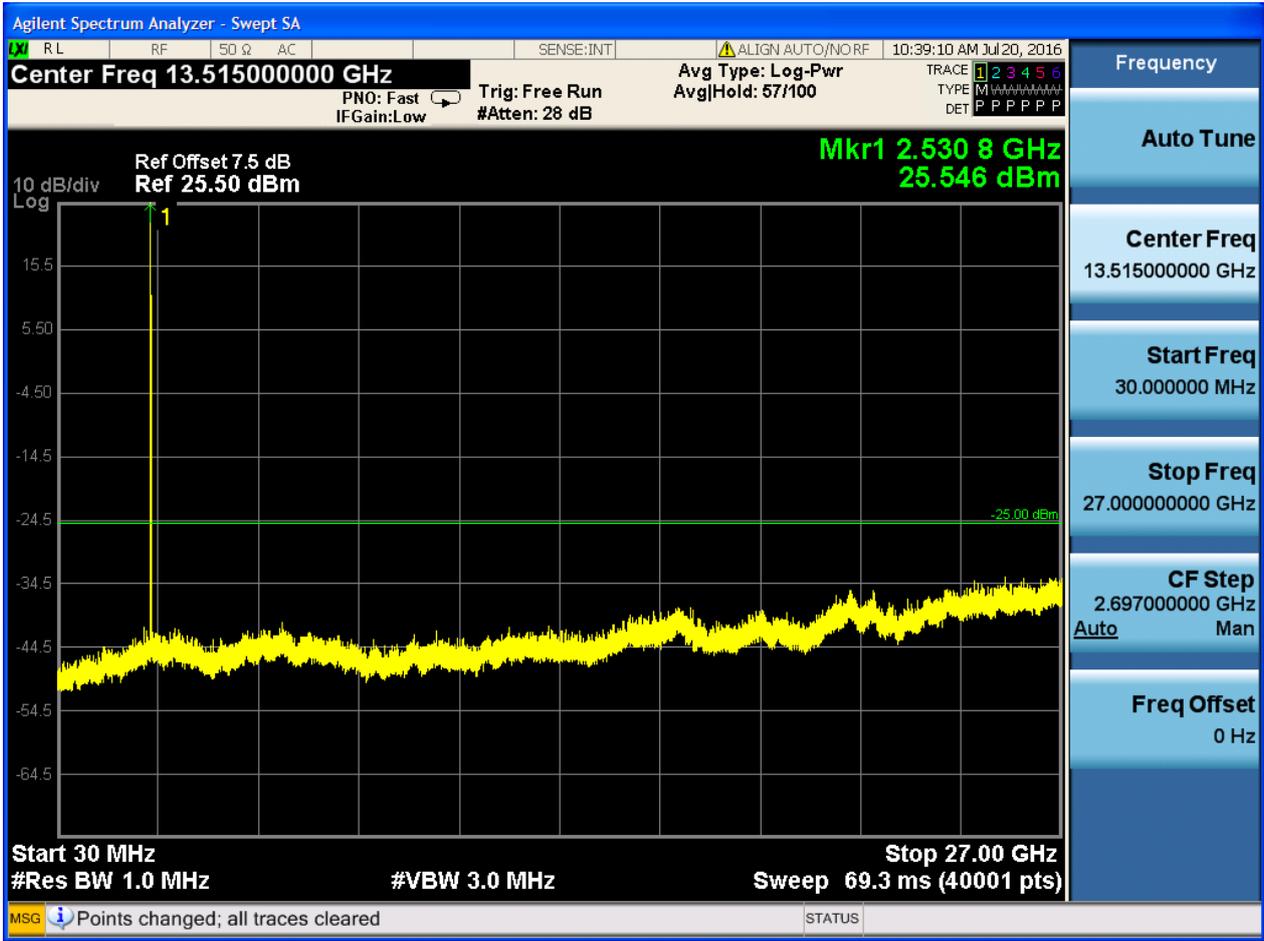0 Hz

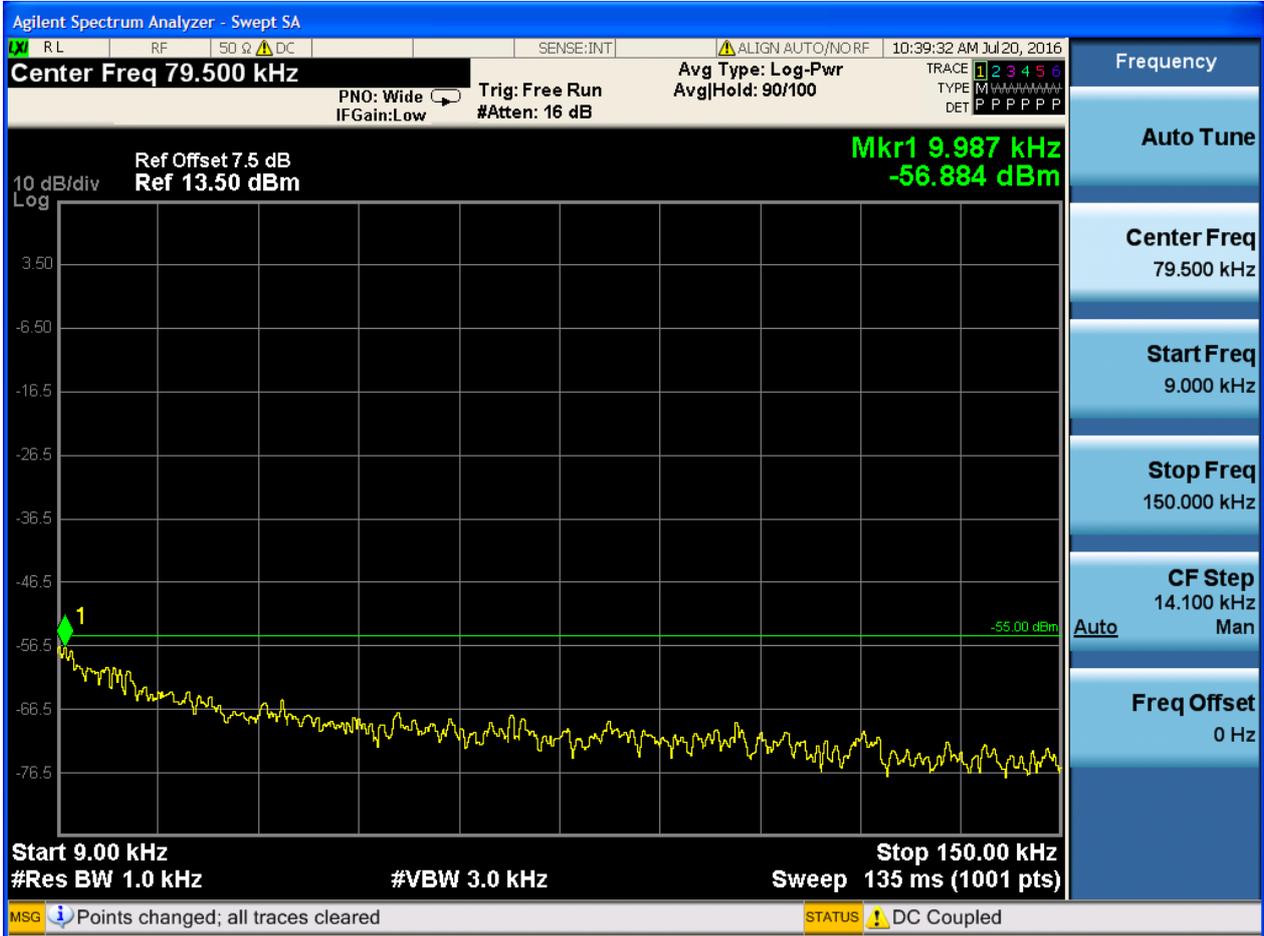### 6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0
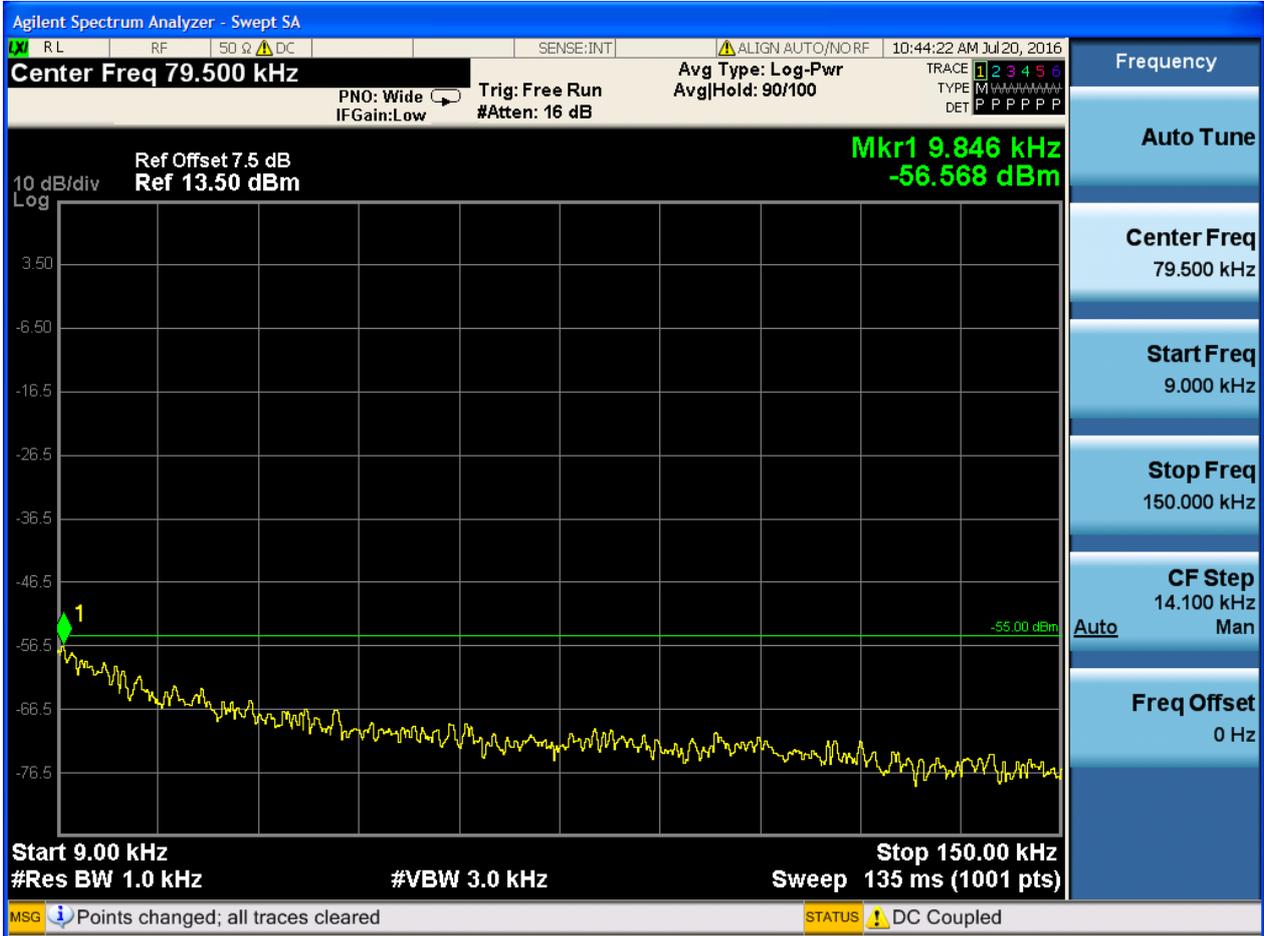
6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0

Agilent Spectrum Analyzer - Swept SA

R L   RF   50 Ω DC   SENSE:INT   ALIGN AUTO/NO RF   10:45:34 AM Jul 20, 2016

Center Freq 15.075000 MHz

PNO: Fast   Trig: Free Run   Avg Type: Log-Pwr   TRACE 1 2 3 4 5 6
IFGain:Low   #Atten: 28 dB   Avg|Hold: 45/100   TYPE M WWWWWW
   DET P P P P P

Mkr1 150.00 kHz
-48.402 dBm

Ref Offset 7.5 dB
10 dB/div   **Ref 25.50 dBm**
Log

15.5

5.50

-4.50

-14.5

-24.5

-34.5

-44.5   1   -45.00 dBm

-54.5

-64.5

Start 150 kHz   **Stop 30.00 MHz**
#Res BW 10 kHz   **#VBW 30 kHz**   **Sweep 285 ms (5001 pts)**

MSG Points changed; all traces cleared   STATUS DC Coupled

Frequency

Auto Tune

Center Freq
15.075000 MHz

Start Freq
150.000 kHz

Stop Freq
30.000000 MHz

CF Step
2.985000 MHz
Auto   Man

Freq Offset
0 Hz

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7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = BAND7

7.1.1.1 Test Bandwidth = 5
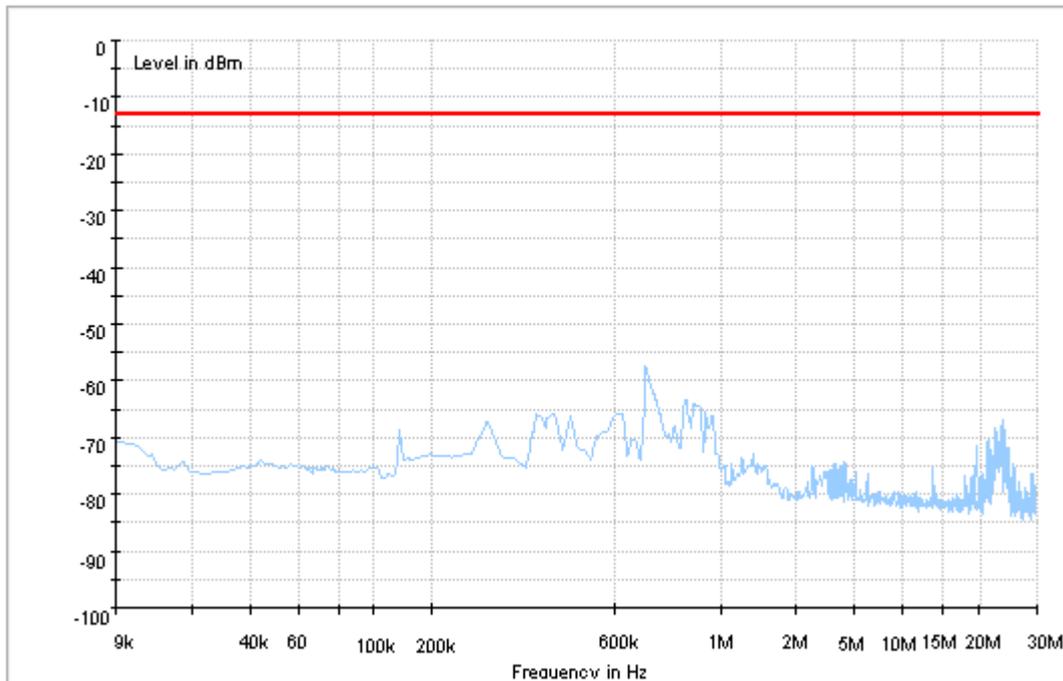
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L
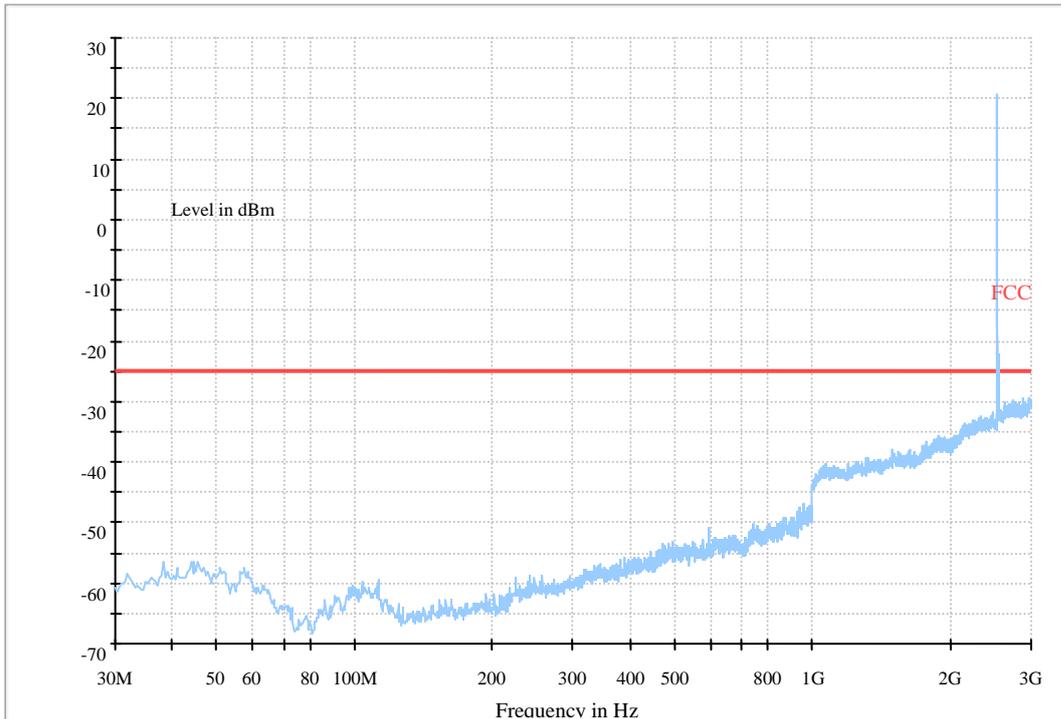
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H
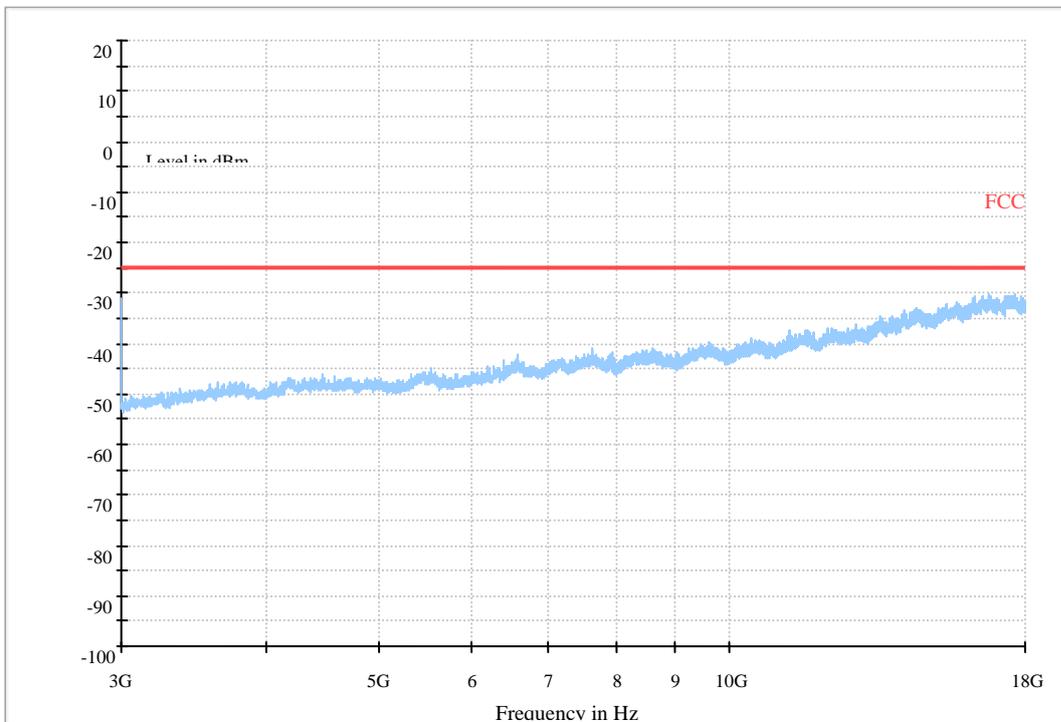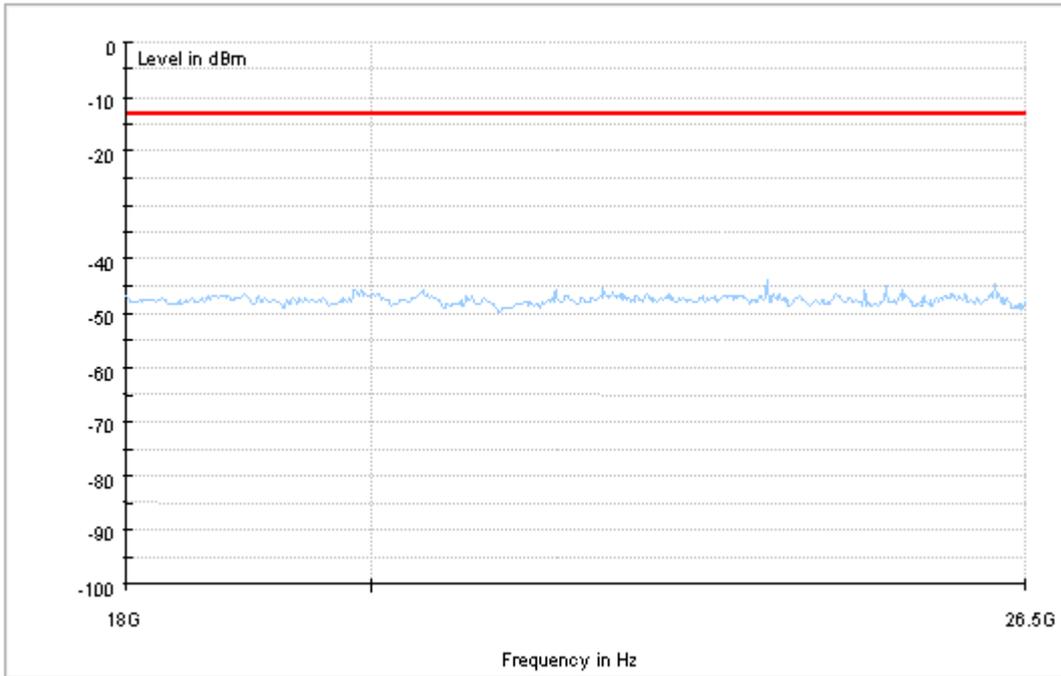
7.1.1.2 Test Bandwidth = 20
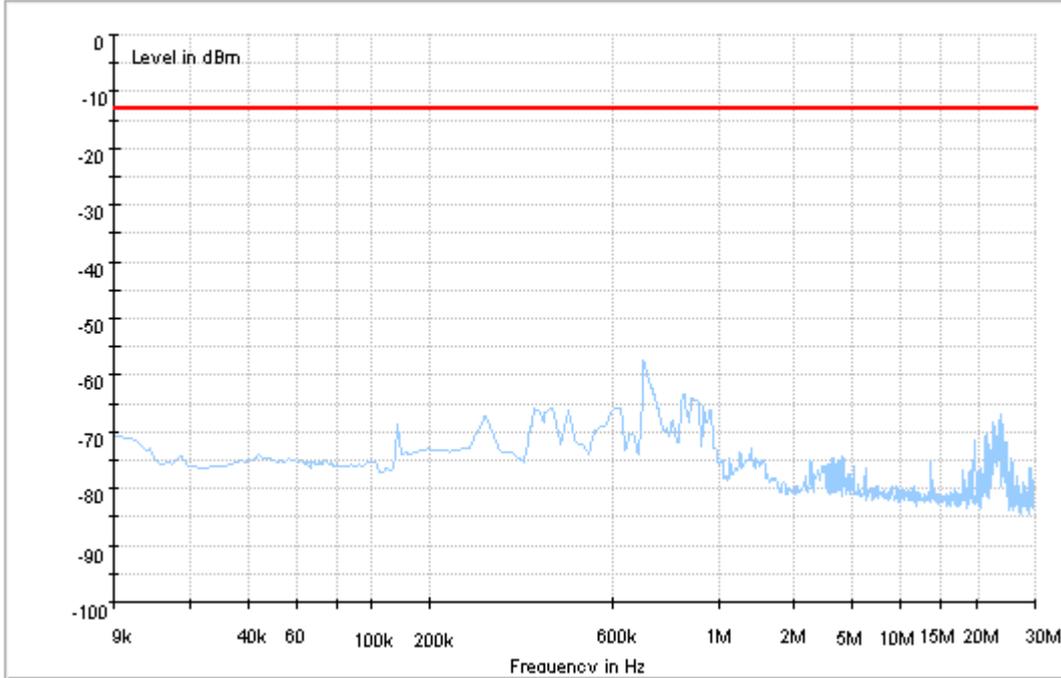
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L
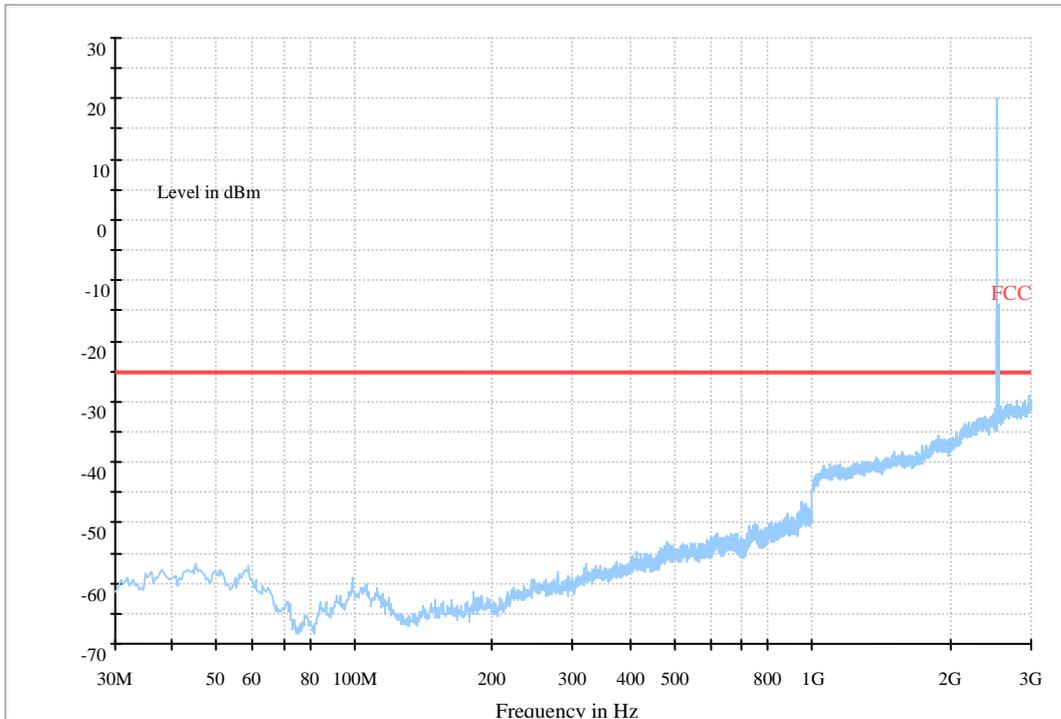
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H
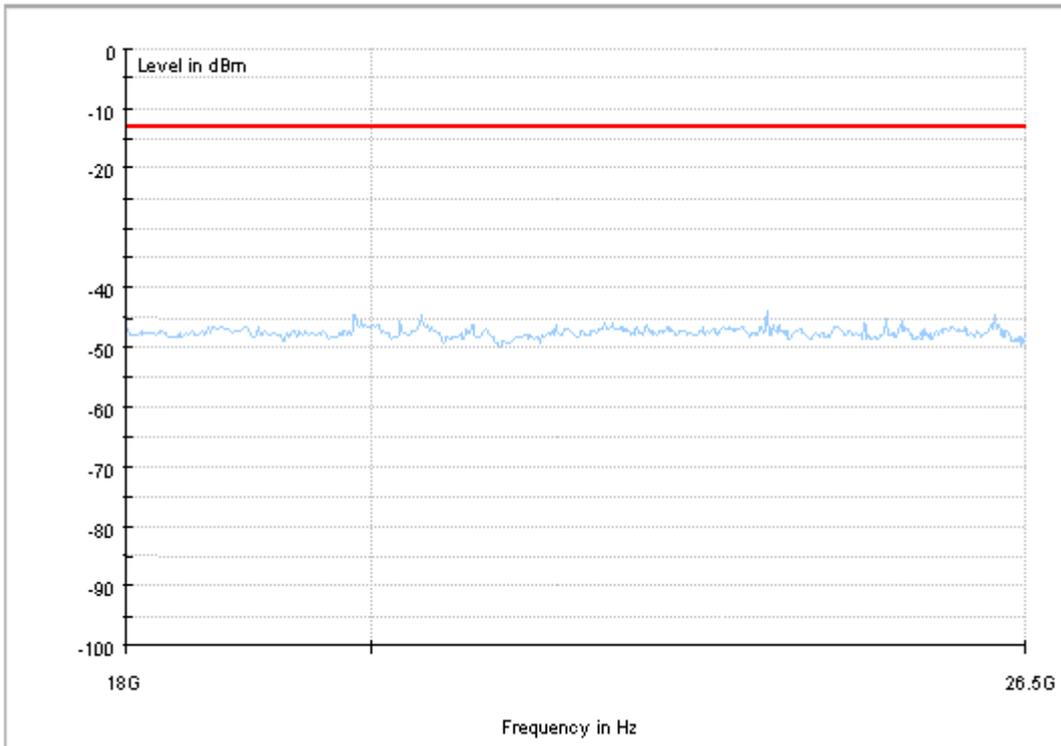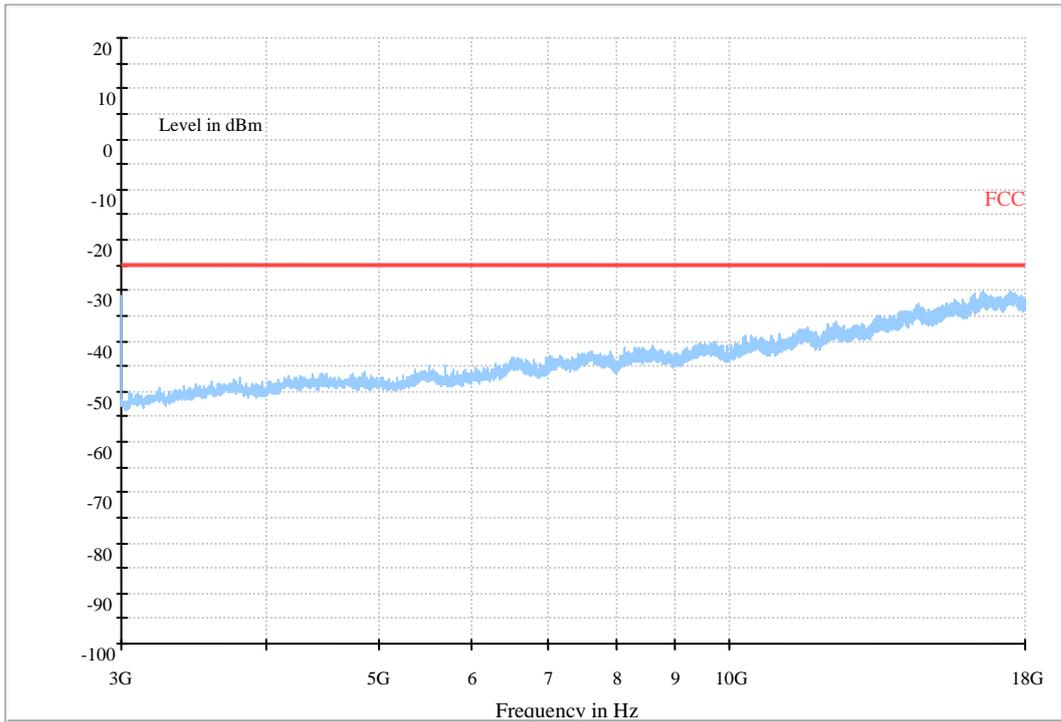
8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND7	LTE/TM1	5	LCH	TN	VL	0.13	0.00005	PASS
					VN	-6.97	-0.00279	PASS
					VH	-4.35	-0.00174	PASS
			MCH	TN	VL	-1.26	-0.0005	PASS
					VN	-1.07	-0.00042	PASS
					VH	-0.92	-0.00036	PASS
			HCH	TN	VL	-0.11	-0.00004	PASS
					VN	-3.02	-0.00118	PASS
					VH	-5.71	-0.00222	PASS
		10	LCH	TN	VL	2.63	0.00105	PASS
					VN	2.98	0.00119	PASS
					VH	-3.4	-0.00136	PASS
			MCH	TN	VL	-9.44	-0.00372	PASS
					VN	-0.06	-0.00002	PASS
					VH	-2.85	-0.00112	PASS
			HCH	TN	VL	-0.92	-0.00036	PASS
					VN	0.59	0.00023	PASS
					VH	-0.47	-0.00018	PASS
		15	LCH	TN	VL	-0.2	-0.00008	PASS
					VN	2.39	0.00095	PASS
					VH	0.03	0.00001	PASS
			MCH	TN	VL	0.19	0.00007	PASS
					VN	-1.1	-0.00043	PASS
					VH	-0.87	-0.00034	PASS
			HCH	TN	VL	-0.31	-0.00012	PASS
					VN	0.59	0.00023	PASS
					VH	-3.48	-0.00136	PASS
		20	LCH	TN	VL	-2.32	-0.00092	PASS
					VN	-0.46	-0.00018	PASS
					VH	2.52	0.001	PASS
			MCH	TN	VL	-7.97	-0.00314	PASS
					VN	-5.09	-0.00201	PASS
					VH	-7	-0.00276	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VL	-1.14	-0.00045	PASS
					VN	-0.19	-0.00007	PASS
					VH	-1.93	-0.00075	PASS
		5	LCH	TN	VL	1	0.0004	PASS
					VN	0.84	0.00034	PASS
					VH	-0.06	-0.00002	PASS
			MCH	TN	VL	-2.56	-0.00101	PASS
					VN	2.66	0.00105	PASS
					VH	4.12	0.00163	PASS
			HCH	TN	VL	1.26	0.00049	PASS
					VN	0.1	0.00004	PASS
					VH	1.36	0.00053	PASS
		10	LCH	TN	VL	-1.95	-0.00078	PASS
					VN	-6.91	-0.00276	PASS
					VH	-3.5	-0.0014	PASS
			MCH	TN	VL	-10.81	-0.00426	PASS
					VN	0.64	0.00025	PASS
					VH	0.64	0.00025	PASS
			HCH	TN	VL	-1.52	-0.00059	PASS
					VN	-1.23	-0.00048	PASS
	LTE/TM2				VH	-0.24	-0.00009	PASS
		15	LCH	TN	VL	1.66	0.00066	PASS
					VN	2.73	0.00109	PASS
					VH	1.73	0.00069	PASS
			MCH	TN	VL	-0.97	-0.00038	PASS
					VN	-8.83	-0.00348	PASS
					VH	-9.11	-0.00359	PASS
			HCH	TN	VL	0.2	0.00008	PASS
					VN	-0.63	-0.00025	PASS
					VH	-2.37	-0.00092	PASS
		20	LCH	TN	VL	1.2	0.00048	PASS
					VN	2.12	0.00084	PASS
					VH	-0.31	-0.00012	PASS
			MCH	TN	VL	-10.51	-0.00415	PASS
					VN	-8.4	-0.00331	PASS
					VH	-9.46	-0.00373	PASS
			HCH	TN	VL	-2.82	-0.0011	PASS
					VN	0.04	0.00002	PASS
					VH	0.13	0.00005	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND7	LTE/TM1	5	LCH	VN	-30	-8.85	-0.00354	PASS
					-20	5.02	0.00201	PASS
					-10	-6.48	-0.00259	PASS
					0	-7.31	-0.00292	PASS
					10	-2.9	-0.00116	PASS
					20	0.99	0.0004	PASS
					30	-7.97	-0.00318	PASS
					40	-2.86	-0.00114	PASS
					50	-10.5	-0.0042	PASS
			MCH	VN	-30	4.16	0.00164	PASS
					-20	-2.75	-0.00108	PASS
					-10	0.41	0.00016	PASS
					0	-26.34	-0.01039	PASS
					10	-0.4	-0.00016	PASS
					20	-3.73	-0.00147	PASS
					30	0.14	0.00006	PASS
					40	-3.71	-0.00146	PASS
					50	-1.03	-0.00041	PASS
			HCH	VN	-30	-0.62	-0.00024	PASS
					-20	0.34	0.00013	PASS
					-10	0.36	0.00014	PASS
					0	-3.08	-0.0012	PASS
					10	0.86	0.00033	PASS
					20	-1.79	-0.0007	PASS
					30	1.32	0.00051	PASS
					40	-2.1	-0.00082	PASS
					50	-7.62	-0.00297	PASS
		10	LCH	VN	-30	-2.62	-0.00105	PASS
					-20	-1.76	-0.0007	PASS
					-10	2.3	0.00092	PASS
					0	1.96	0.00078	PASS
					10	-0.59	-0.00024	PASS
					20	2.3	0.00092	PASS
					30	-1.49	-0.00059	PASS
					40	2.88	0.00115	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					50	0.26	0.0001	PASS
			MCH	VN	-30	-1.33	-0.00052	PASS
					-20	-0.53	-0.00021	PASS
					-10	1.3	0.00051	PASS
					0	-0.47	-0.00019	PASS
					10	-0.72	-0.00028	PASS
					20	-0.86	-0.00034	PASS
					30	1.1	0.00043	PASS
					40	-2.7	-0.00107	PASS
					50	-3.05	-0.0012	PASS
			HCH	VN	-30	-1.87	-0.00073	PASS
					-20	3.16	0.00123	PASS
					-10	-0.72	-0.00028	PASS
					0	-1.75	-0.00068	PASS
					10	-2.23	-0.00087	PASS
					20	-1.17	-0.00046	PASS
					30	-0.87	-0.00034	PASS
					40	-0.41	-0.00016	PASS
					50	-1.87	-0.00073	PASS
			LCH	VN	-30	1.13	0.00045	PASS
					-20	0.67	0.00027	PASS
					-10	1.17	0.00047	PASS
					0	1.96	0.00078	PASS
					10	0.69	0.00028	PASS
					20	-1.96	-0.00078	PASS
					30	0.64	0.00026	PASS
					40	2.03	0.00081	PASS
					50	1.5	0.0006	PASS
		15	MCH	VN	-30	1.12	0.00044	PASS
					-20	-11.2	-0.00442	PASS
					-10	1.03	0.00041	PASS
					0	-0.43	-0.00017	PASS
					10	-0.01	0	PASS
					20	-13.53	-0.00534	PASS
					30	-0.04	-0.00002	PASS
					40	-0.73	-0.00029	PASS
					50	-4.33	-0.00171	PASS
			HCH	VN	-30	-2.17	-0.00085	PASS
					-20	0.51	0.0002	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-0.66	-0.00026	PASS
					0	-1	-0.00039	PASS
					10	-3.88	-0.00151	PASS
					20	-4.65	-0.00181	PASS
					30	0.26	0.0001	PASS
					40	-1.32	-0.00052	PASS
					50	1.95	0.00076	PASS
			LCH	VN	-30	-0.21	-0.00008	PASS
					-20	1.39	0.00055	PASS
					-10	0.37	0.00015	PASS
					0	-1.7	-0.00068	PASS
					10	-0.5	-0.0002	PASS
					20	0.33	0.00013	PASS
					30	-0.92	-0.00037	PASS
					40	0.63	0.00025	PASS
					50	0.82	0.00033	PASS
			MCH	VN	-30	-8.23	-0.00325	PASS
					-20	-10.37	-0.00409	PASS
					-10	-7.42	-0.00293	PASS
					0	-7.55	-0.00298	PASS
		20			10	-10.16	-0.00401	PASS
					20	-6.32	-0.00249	PASS
					30	-7.18	-0.00283	PASS
					40	-11.77	-0.00464	PASS
					50	-9.37	-0.0037	PASS
			HCH	VN	-30	-0.8	-0.00031	PASS
					-20	-1.17	-0.00046	PASS
					-10	0.56	0.00022	PASS
					0	-2.59	-0.00101	PASS
					10	-2.1	-0.00082	PASS
					20	-1.85	-0.00072	PASS
					30	-0.64	-0.00025	PASS
					40	-0.89	-0.00035	PASS
					50	-1.02	-0.0004	PASS
	LTE/TM2	5	LCH	VN	-30	-0.19	-0.00008	PASS
					-20	3.23	0.00129	PASS
					-10	1.97	0.00079	PASS
					0	7.9	0.00316	PASS
					10	-0.9	-0.00036	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	4.72	0.00189	PASS
					30	1.72	0.00069	PASS
					40	2.63	0.00105	PASS
					50	2.03	0.00081	PASS
			MCH	VN	-30	-0.66	-0.00026	PASS
					-20	-25.39	-0.01002	PASS
					-10	-1.2	-0.00047	PASS
					0	-0.21	-0.00008	PASS
					10	-31.53	-0.01244	PASS
					20	0.09	0.00004	PASS
					30	0.01	0	PASS
					40	-20.61	-0.00813	PASS
					50	-1.49	-0.00059	PASS
			HCH	VN	-30	-3.73	-0.00145	PASS
					-20	-0.54	-0.00021	PASS
					-10	2.83	0.0011	PASS
					0	2.47	0.00096	PASS
					10	-4.96	-0.00193	PASS
					20	0.03	0.00001	PASS
					30	-0.83	-0.00032	PASS
					40	-4.31	-0.00168	PASS
					50	-0.49	-0.00019	PASS
		10	LCH	VN	-30	-0.86	-0.00034	PASS
					-20	-4.32	-0.00172	PASS
					-10	-0.99	-0.0004	PASS
					0	-5.14	-0.00205	PASS
					10	0.54	0.00022	PASS
					20	0.82	0.00033	PASS
					30	-4.69	-0.00187	PASS
					40	-6.49	-0.00259	PASS
					50	-6.24	-0.00249	PASS
			MCH	VN	-30	-1.4	-0.00055	PASS
					-20	0.3	0.00012	PASS
					-10	0.31	0.00012	PASS
					0	-0.03	-0.00001	PASS
					10	-1.32	-0.00052	PASS
					20	-1.52	-0.0006	PASS
					30	1.3	0.00051	PASS
					40	-0.49	-0.00019	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					50	0.37	0.00015	PASS
			HCH	VN	-30	1.1	0.00043	PASS
					-20	0.53	0.00021	PASS
					-10	-2.82	-0.0011	PASS
					0	0.23	0.00009	PASS
					10	-1.04	-0.00041	PASS
					20	-1.37	-0.00053	PASS
					30	0.34	0.00013	PASS
					40	-0.84	-0.00033	PASS
					50	-0.74	-0.00029	PASS
			LCH	VN	-30	-3.99	-0.00159	PASS
					-20	-3.86	-0.00154	PASS
					-10	-0.56	-0.00022	PASS
					0	1.26	0.0005	PASS
					10	-0.47	-0.00019	PASS
					20	-3.05	-0.00122	PASS
					30	0.57	0.00023	PASS
					40	-0.16	-0.00006	PASS
					50	-0.73	-0.00029	PASS
			MCH	VN	-30	-0.72	-0.00028	PASS
					-20	-2.62	-0.00103	PASS
					-10	-10.4	-0.0041	PASS
					0	-7.58	-0.00299	PASS
		15			10	-1.03	-0.00041	PASS
					20	-9.66	-0.00381	PASS
					30	2.22	0.00088	PASS
					40	-3.19	-0.00126	PASS
					50	0.83	0.00033	PASS
			HCH	VN	-30	-2.16	-0.00084	PASS
					-20	-1.6	-0.00062	PASS
					-10	-0.41	-0.00016	PASS
					0	-2.68	-0.00105	PASS
					10	-0.63	-0.00025	PASS
					20	-2.26	-0.00088	PASS
					30	-1.29	-0.0005	PASS
					40	0.17	0.00007	PASS
					50	-1.65	-0.00064	PASS
		20	LCH	VN	-30	-0.16	-0.00006	PASS
					-20	-0.96	-0.00038	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	1.17	0.00047	PASS
					0	1.53	0.00061	PASS
					10	-2.45	-0.00098	PASS
					20	-2.03	-0.00081	PASS
					30	0.49	0.0002	PASS
					40	-0.24	-0.0001	PASS
					50	-0.86	-0.00034	PASS
					-30	-8.97	-0.00354	PASS
					-20	-4.46	-0.00176	PASS
					-10	-13.25	-0.00523	PASS
					0	-9.83	-0.00388	PASS
			MCH	VN	10	-7.45	-0.00294	PASS
					20	-7.58	-0.00299	PASS
					30	-9.07	-0.00358	PASS
					40	-5.34	-0.00211	PASS
					50	-9.74	-0.00384	PASS
					-30	-0.16	-0.00006	PASS
					-20	1.42	0.00055	PASS
					-10	1.92	0.00075	PASS
					0	-1.65	-0.00064	PASS
			HCH	VN	10	0.16	0.00006	PASS
					20	-3.25	-0.00127	PASS
					30	-1.83	-0.00071	PASS
					40	0.04	0.00002	PASS
					50	-1.63	-0.00064	PASS

END