



Agilent Spectrum Analyzer - Swept SA

[X] RL	RF	50 Ω AC	SENSE:INT	ALIGN AUTO	09:40:10 AM Feb 23, 2017
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Center Freq 699.000000 MHz

PNO: Wide → Trig: Free Run
IFGain: Low #Atten: 36 dB

Avg Type: RMS
Avg/Hold: 8/100

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET A A A A A A

Mkr1 699.000 MHz
-35.762 dBm

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div Log

Center 699.000 MHz
#Res BW 51 kHz

#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

 Auto Tune

 Center Freq
699.000000 MHz

 Start Freq
698.000000 MHz

 Stop Freq
700.000000 MHz

 CF Step
200.000 kHz
Auto Man

 Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 699.000 MHz
-29.242 dBm

Center 699.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Auto

Freq Offset
0 Hz

Center Freq 699.000000 MHz

Avg Type: RMS
Avg/Hold: 8/100

Trig: Free Run
#Atten: 36 dB

Trace 1 2 3 4 5 6
Type M W W W W W W W
Det A A A A A A

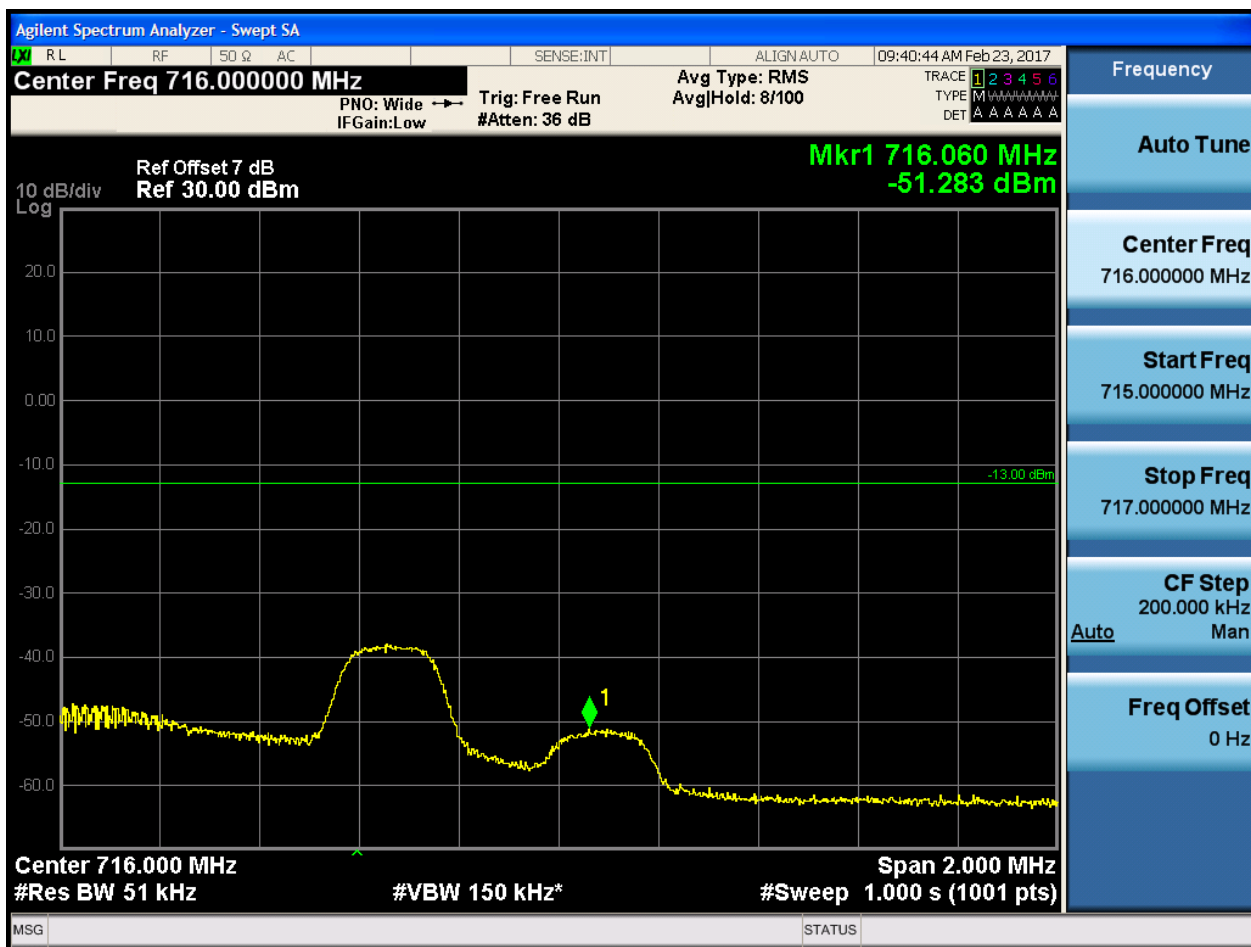
PNO: Wide →
IFGain: Low

MSG STATUS

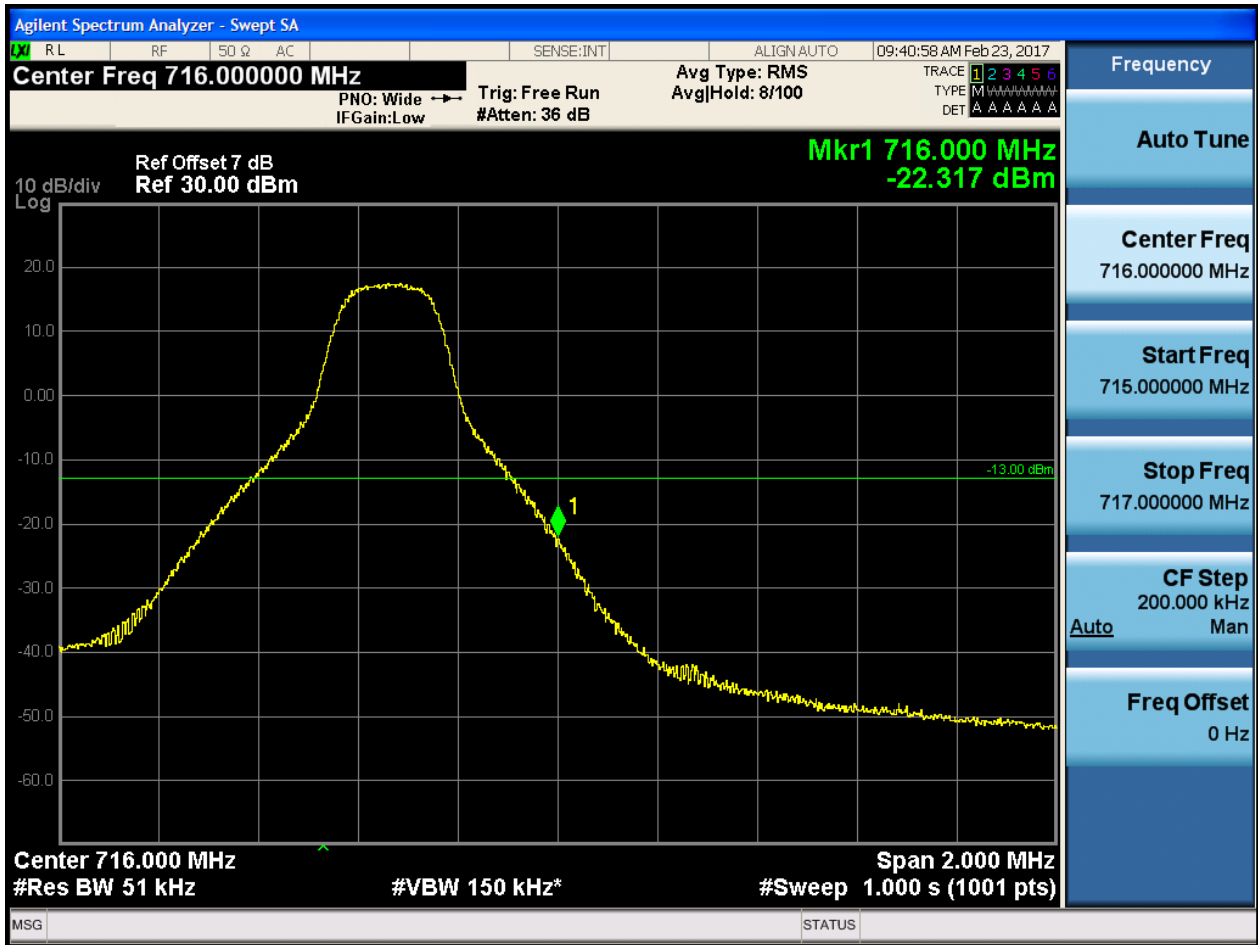


5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0



5.1.1.2.3.2.2 Test RB = RB1#24



5.1.1.2.3.2.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:41:27 AM Feb 23, 2017

Center Freq 716.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 8/100
#Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W W
DET A A A A A A

Ref Offset 7 dB
Ref 30.00 dBm

Mkr1 716.000 MHz
-29.365 dBm

10 dB/div
Log

Center 716.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

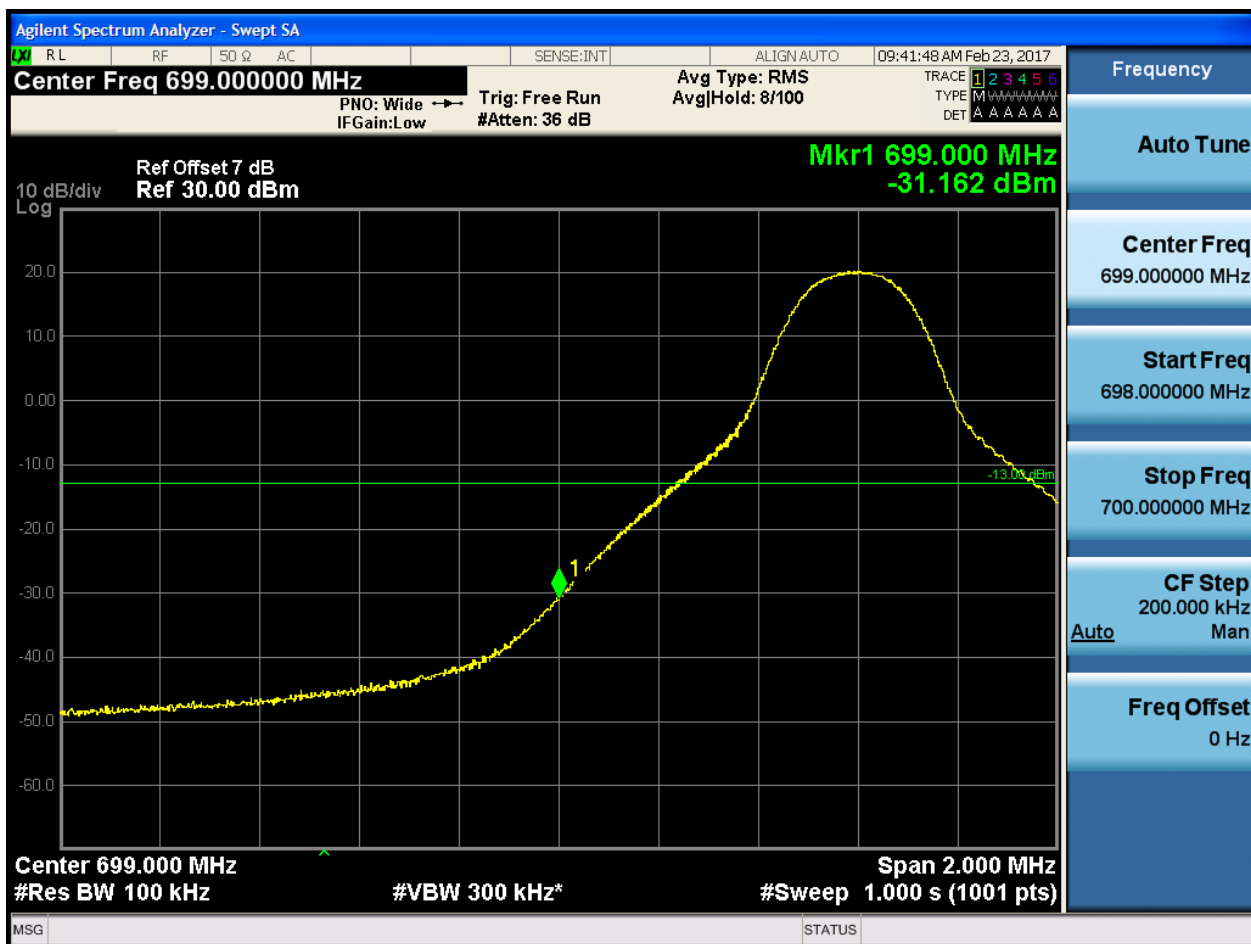
MSG STATUS



5.1.1.2.4 Test Bandwidth = 10

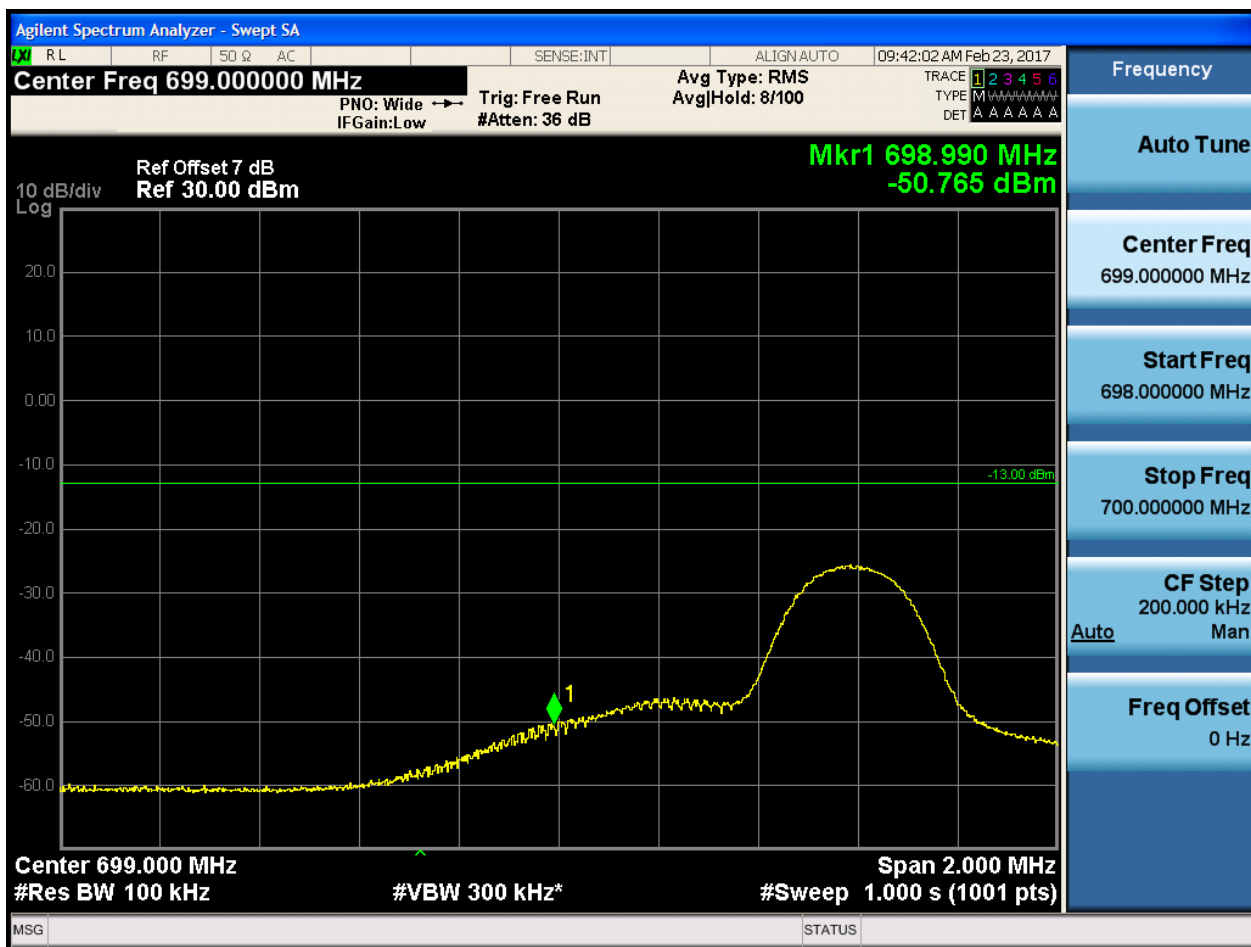
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0



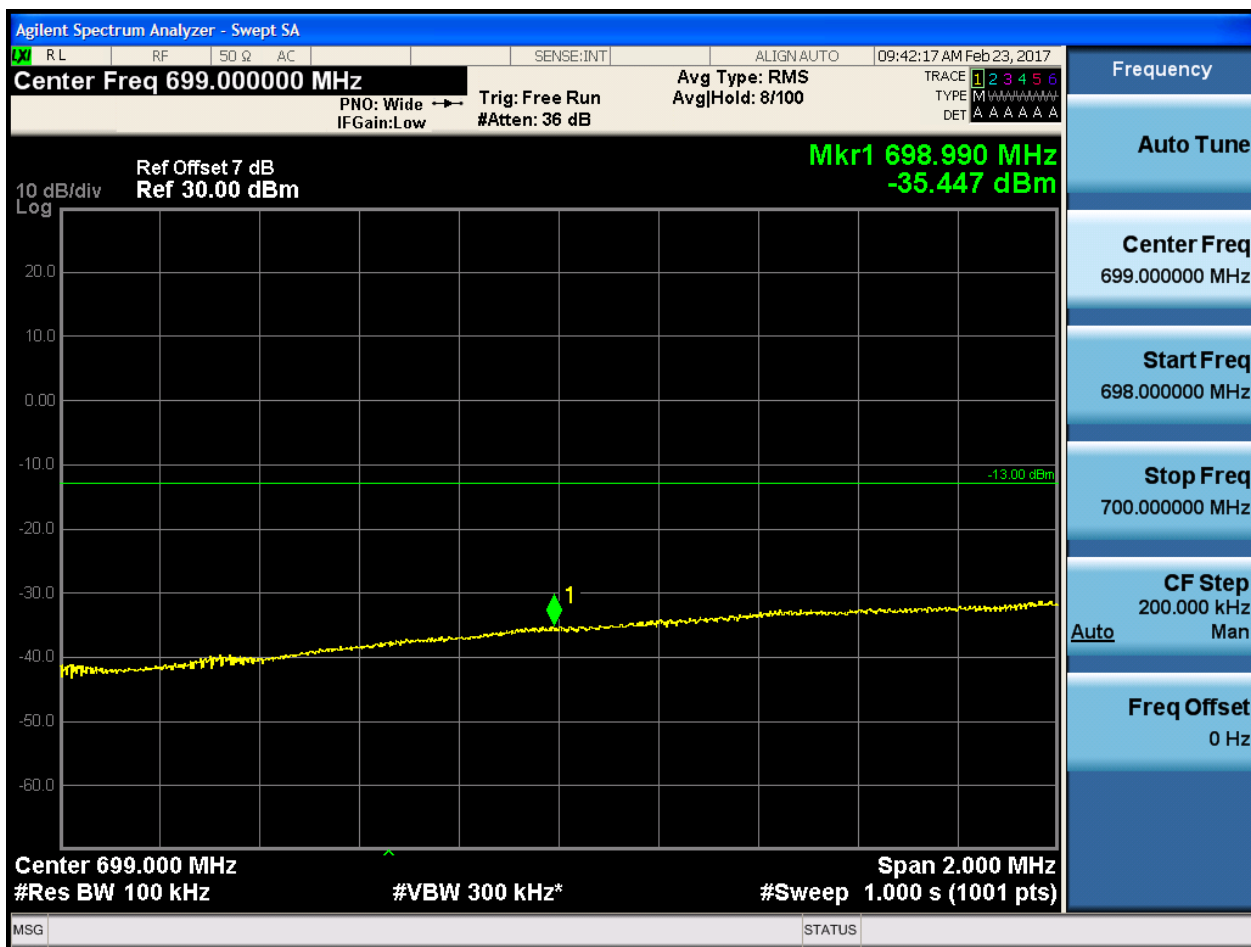


5.1.1.2.4.1.2 Test RB = RB1#49





5.1.1.2.4.1.3 Test RB = RB25#13

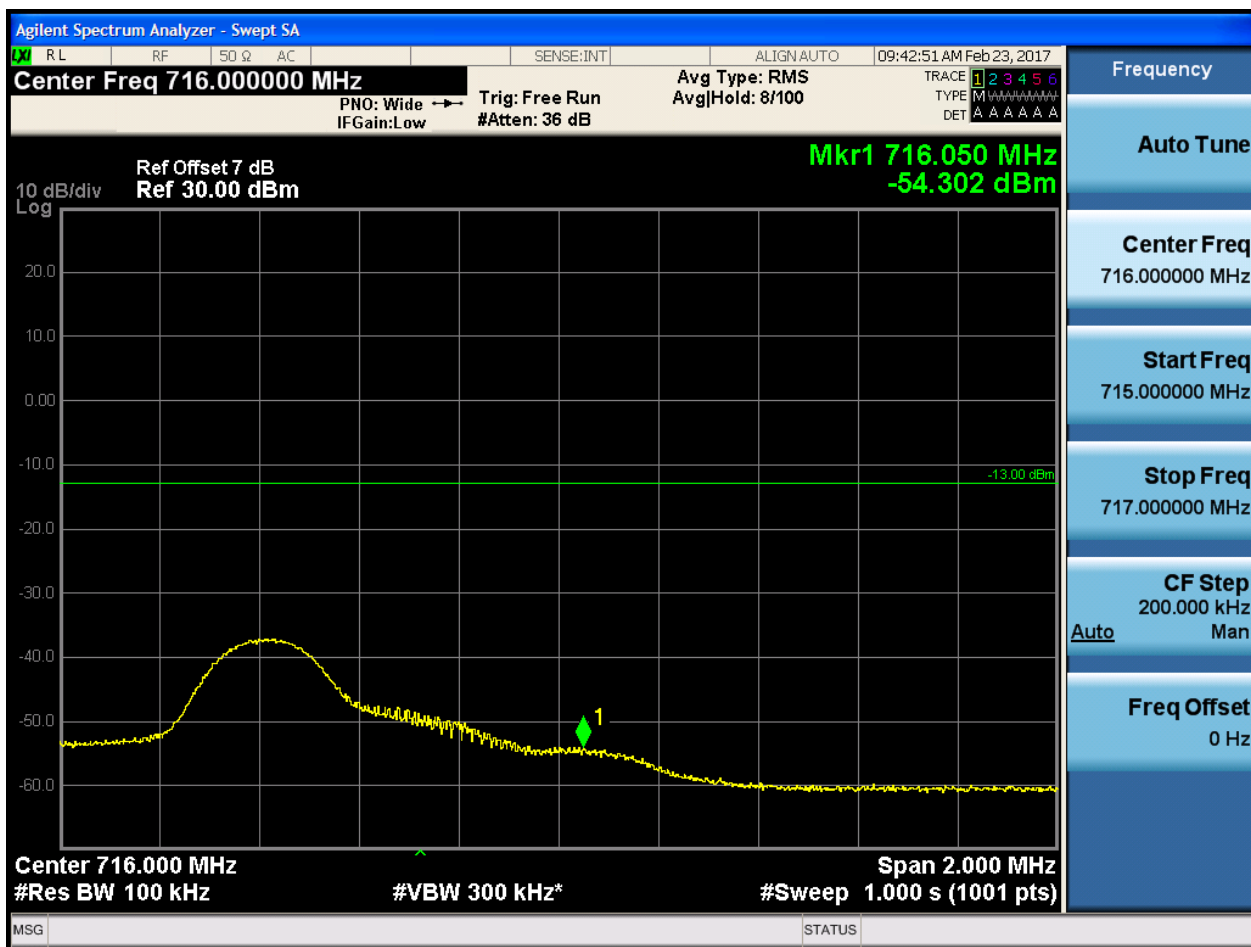


5.1.1.2.4.1.4 Test RB = RB50#0



5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:43:05 AM Feb 23, 2017

Center Freq 716.000000 MHz Avg Type: RMS
 PNO: Wide Trig: Free Run
 IFGain: Low #Atten: 36 dB

TRACE 1 2 3 4 5 6
 TYPE M W W W W W W W
 DET A A A A A A

Ref Offset 7 dB
 Ref 30.00 dBm

Mkr1 716.000 MHz
 -31.678 dBm

10 dB/div
 Log

Center 716.000 MHz
 #Res BW 100 kHz
 #VBW 300 kHz*
 Span 2.000 MHz
 #Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:43:19 AM Feb 23, 2017

Center Freq 716.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 8/100
#Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET A A A A A A

Ref Offset 7 dB
Ref 30.00 dBm

Mkr1 716.000 MHz
-35.854 dBm

10 dB/div
Log

Center 716.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:43:33 AM Feb 23, 2017

Center Freq 716.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 8/100
#Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET A A A A A A

Ref Offset 7 dB
Ref 30.00 dBm

Mkr1 716.000 MHz
-31.878 dBm

10 dB/div
Log

Center 716.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency
Auto Tune
Center Freq
716.000000 MHz
Start Freq
715.000000 MHz
Stop Freq
717.000000 MHz
CF Step
200.000 kHz
Auto Man
Freq Offset
0 Hz

6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

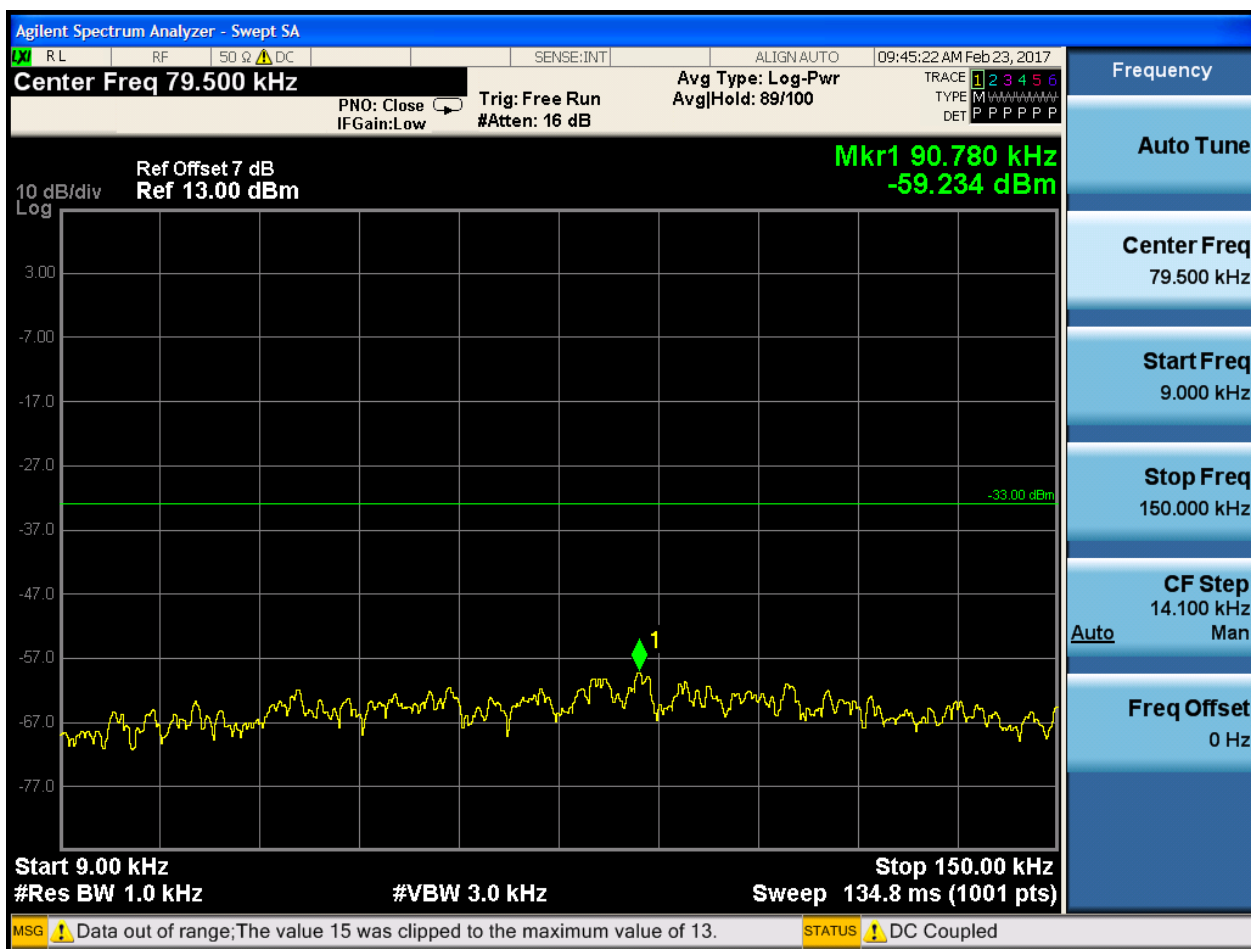
6.1.1 Test Band = BAND12

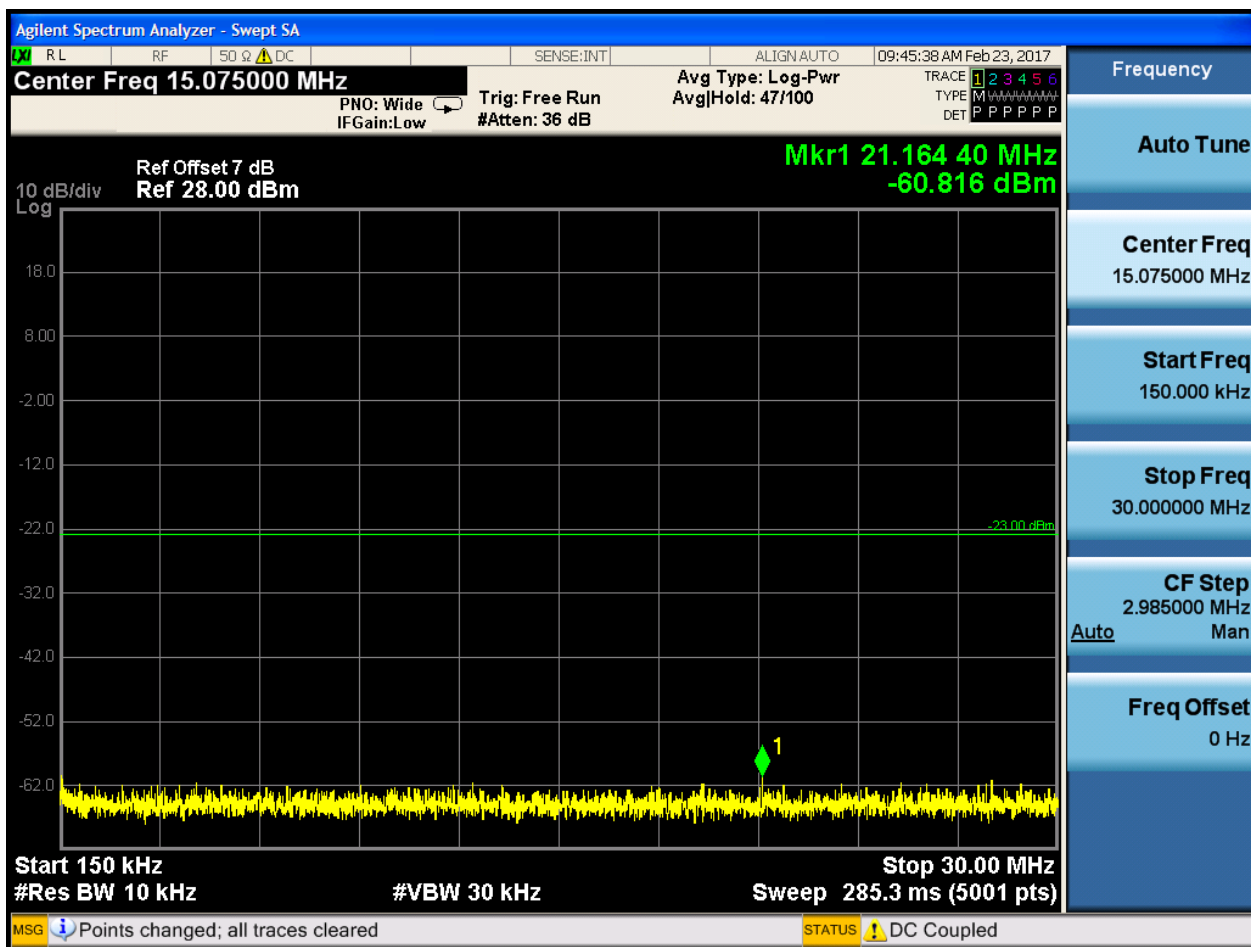
6.1.1.1 Test Mode = LTE/TM1

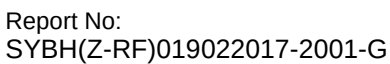
6.1.1.1.1 Test Bandwidth = 1.4

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0

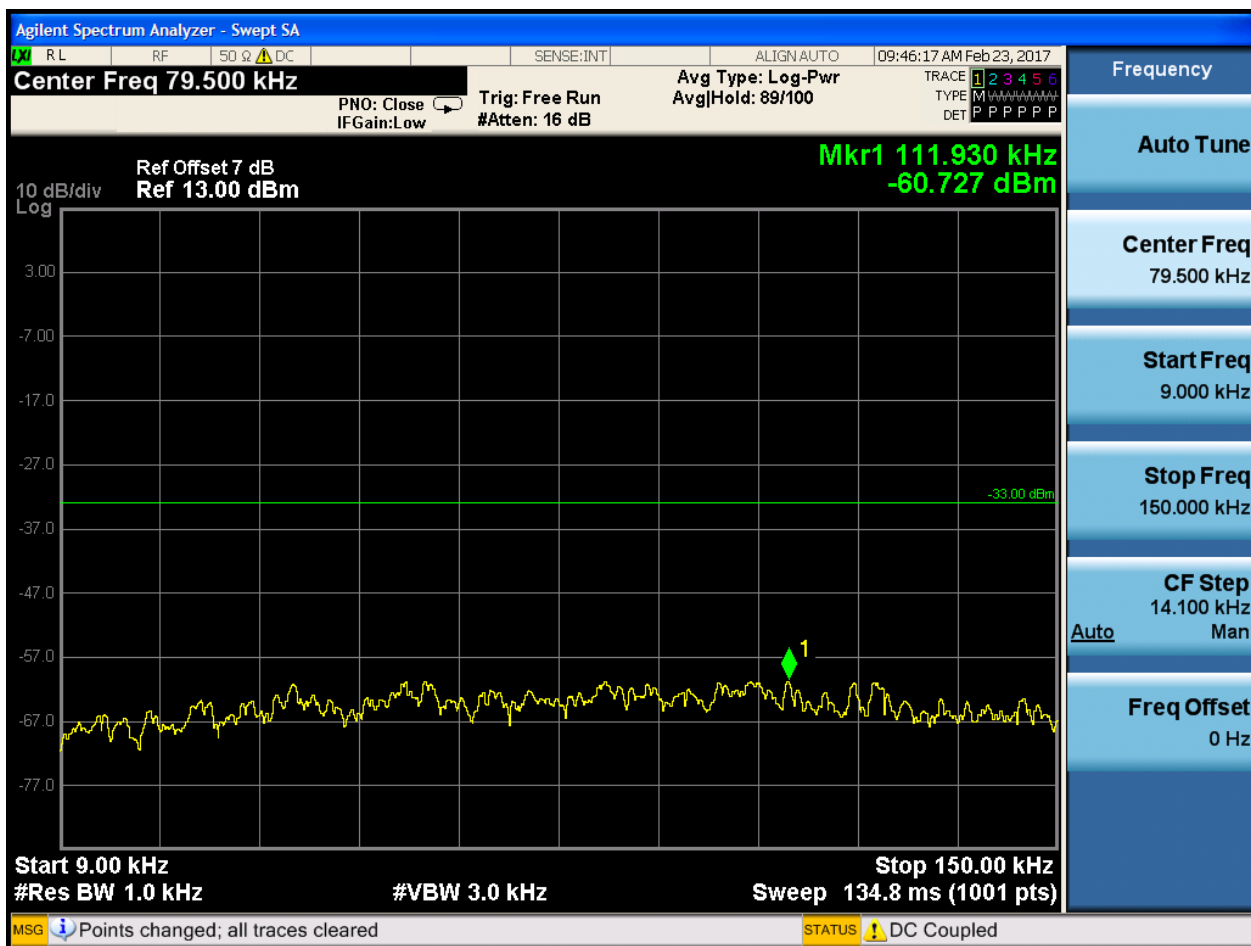


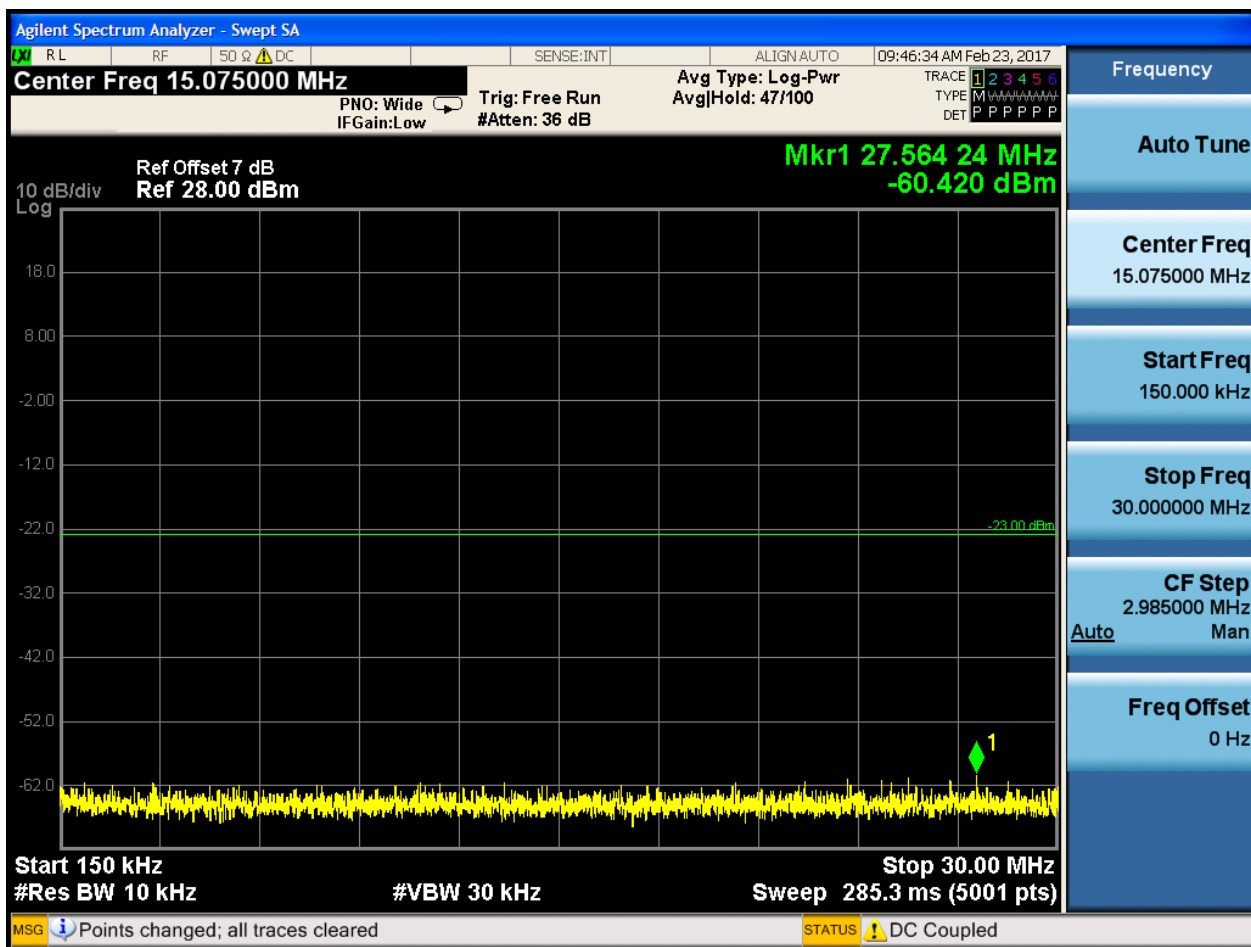


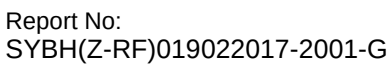


6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



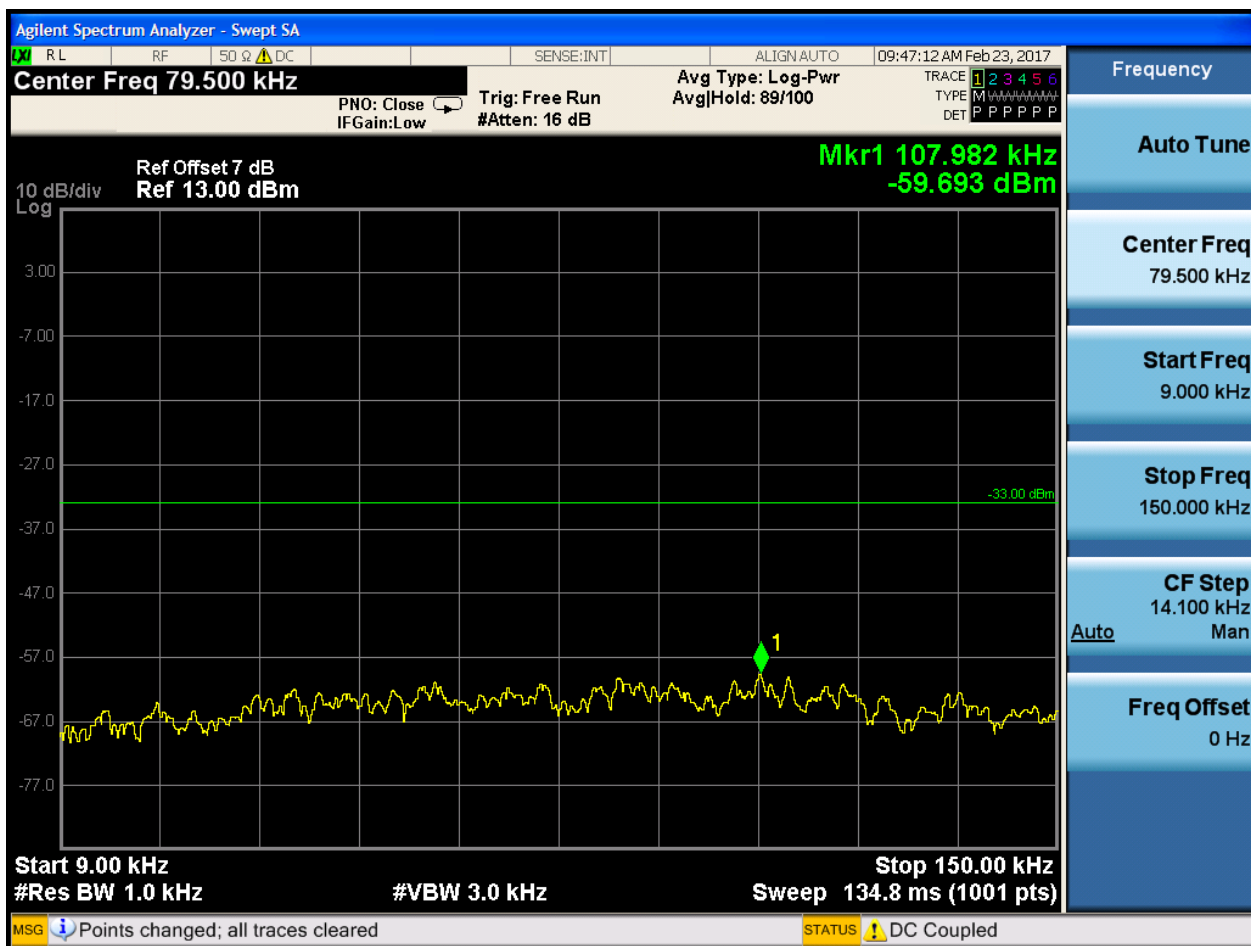


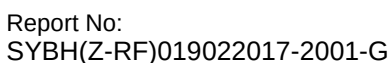


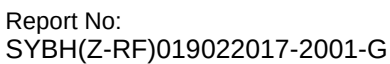


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0



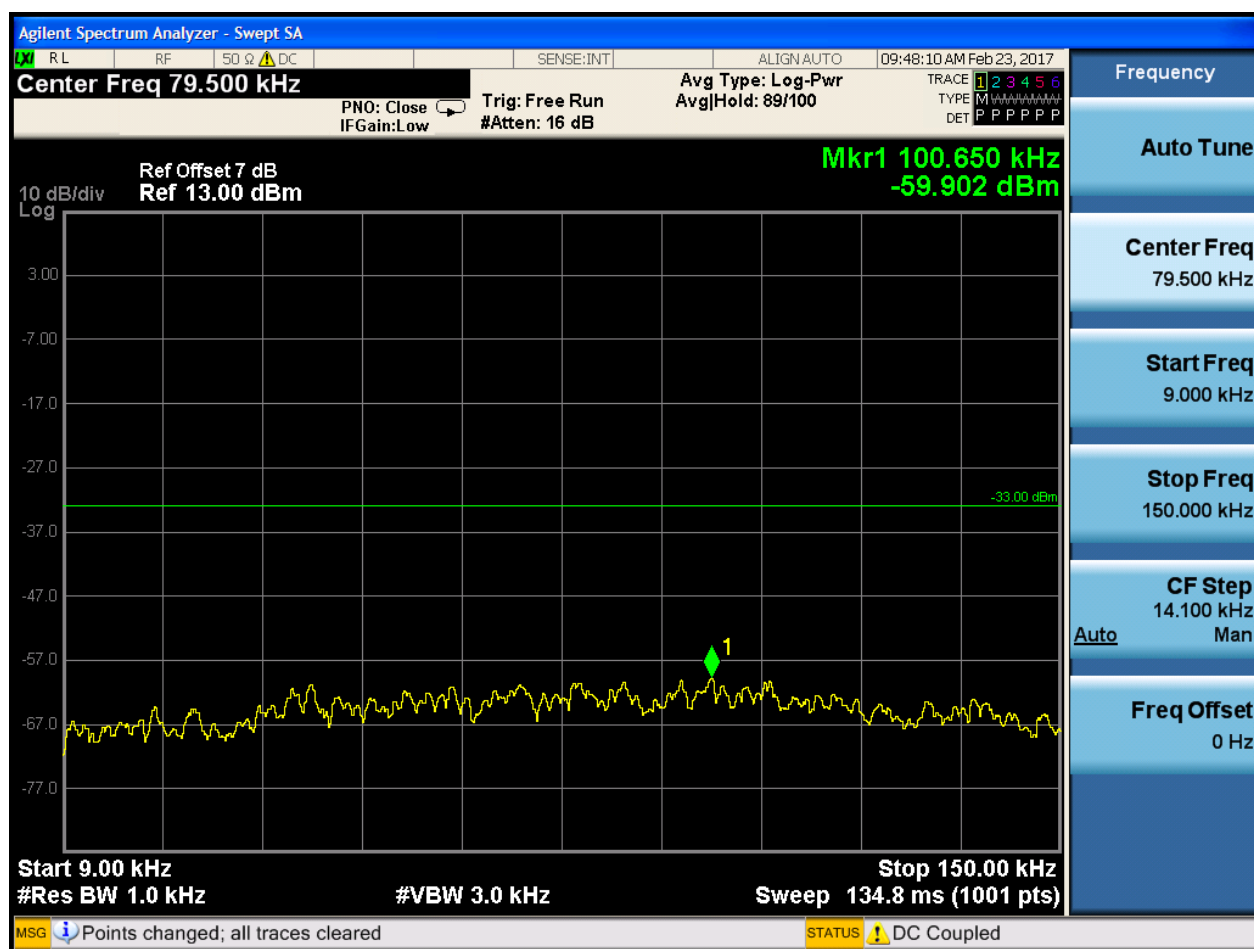


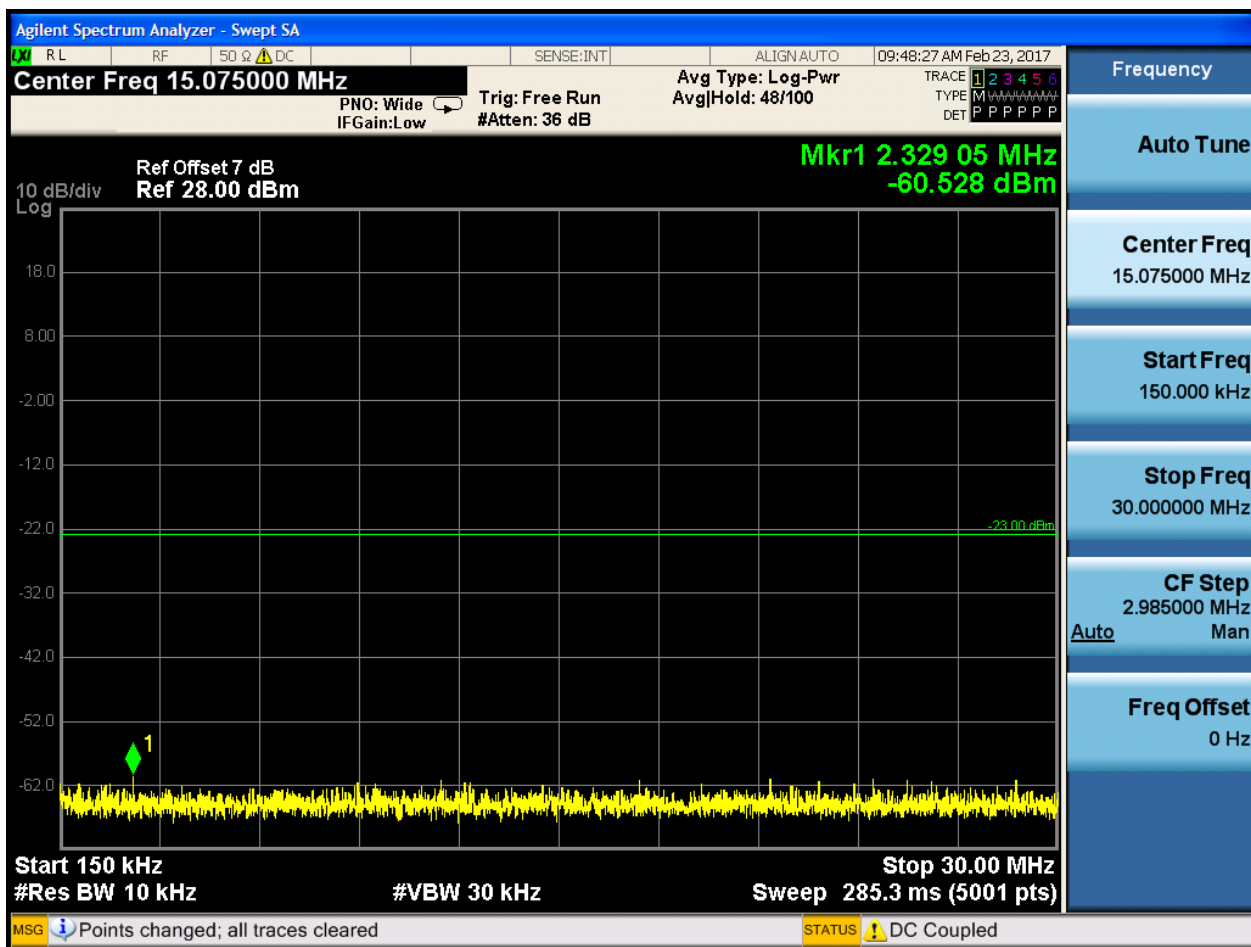


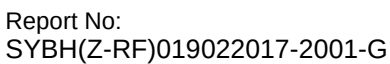
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0

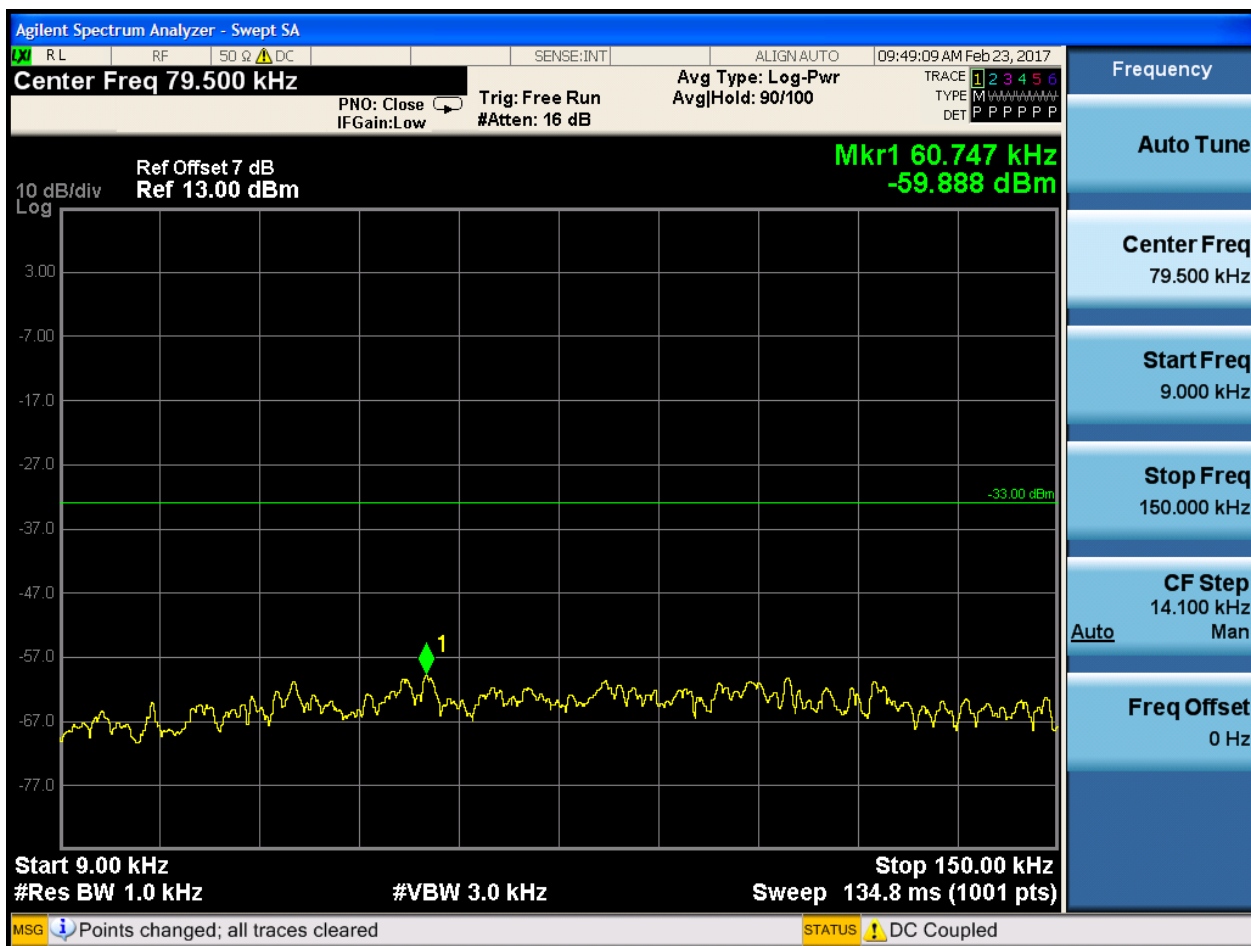


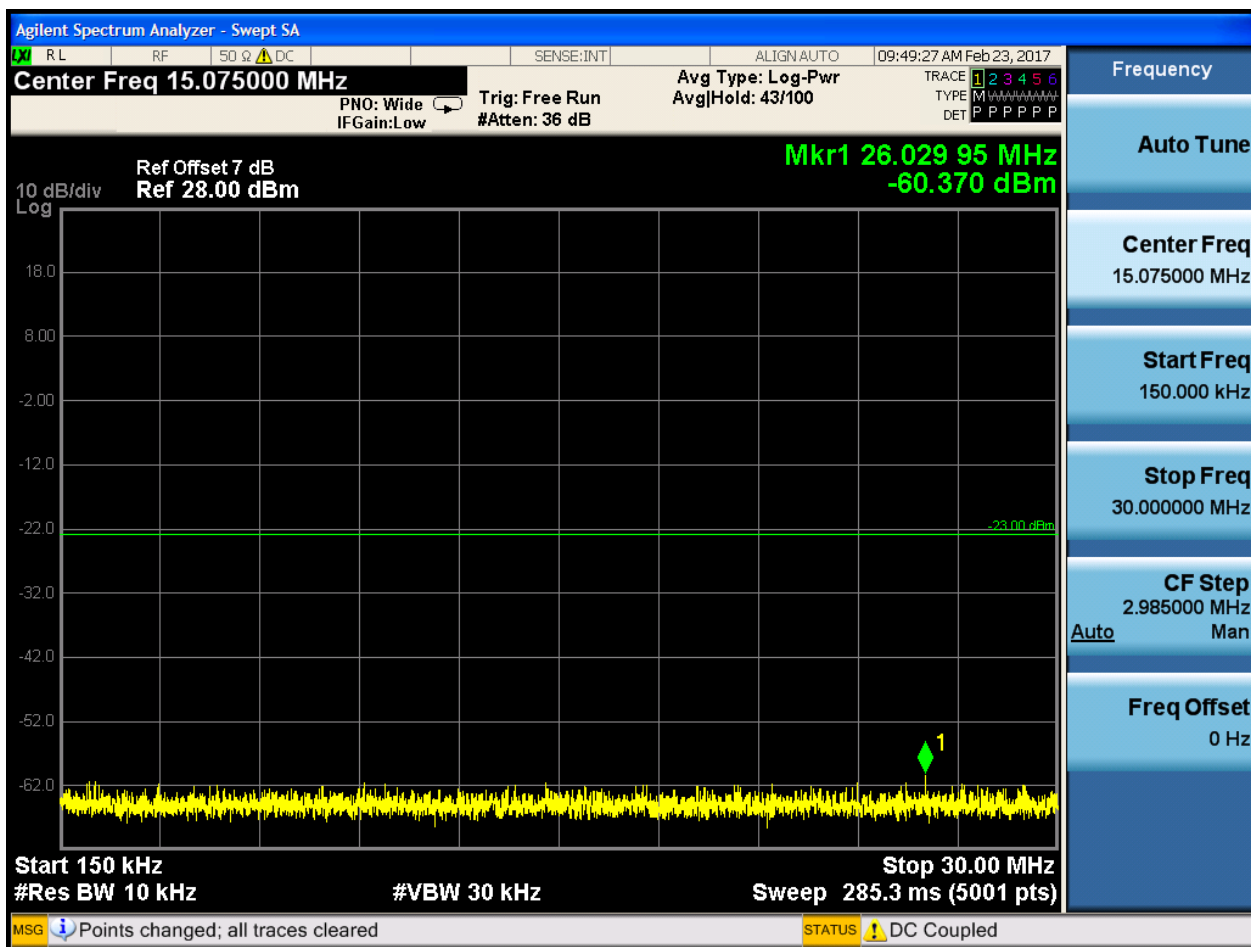


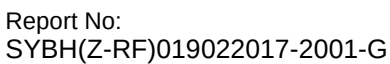


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



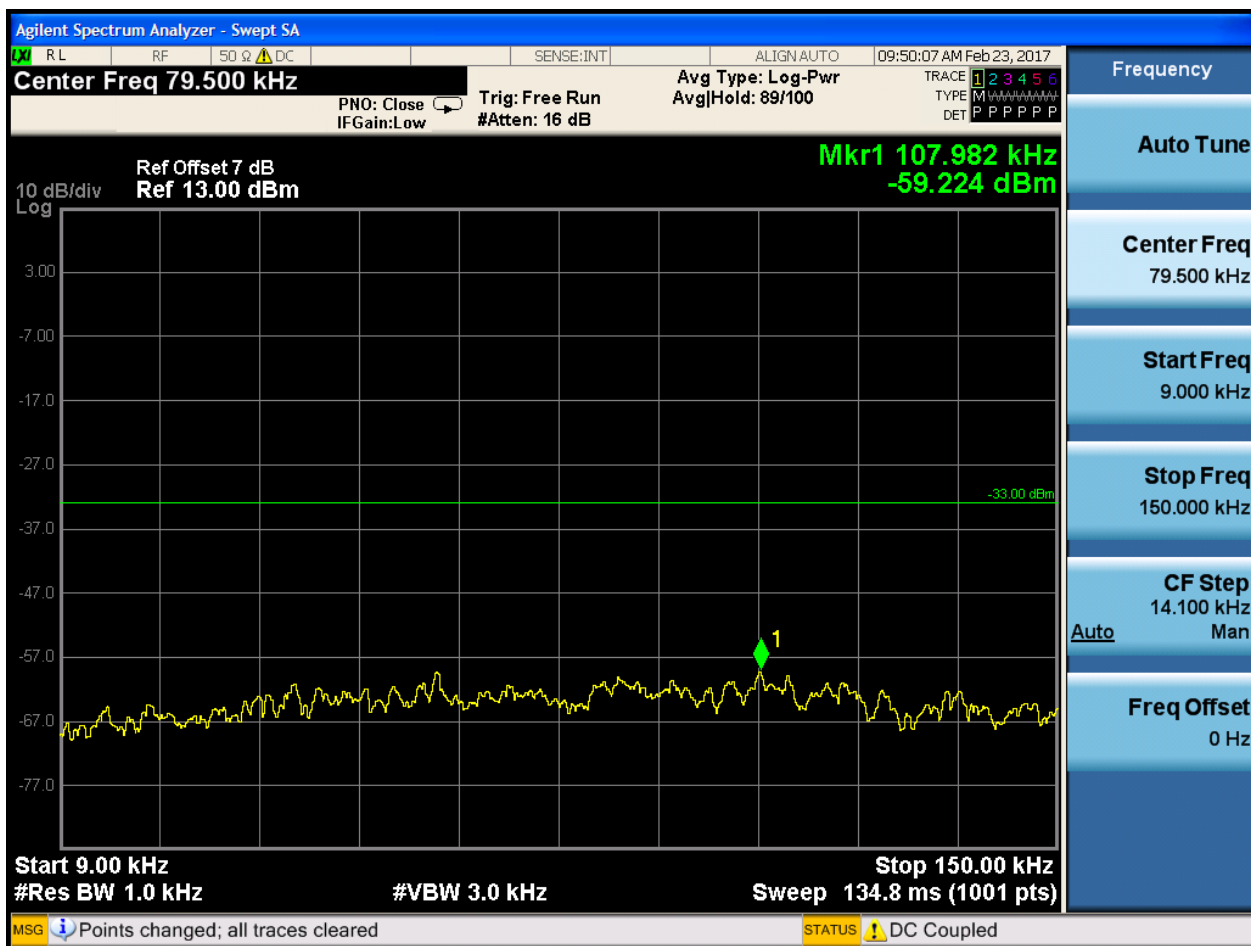


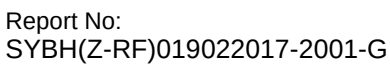


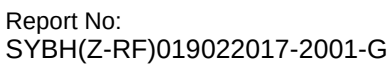


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0



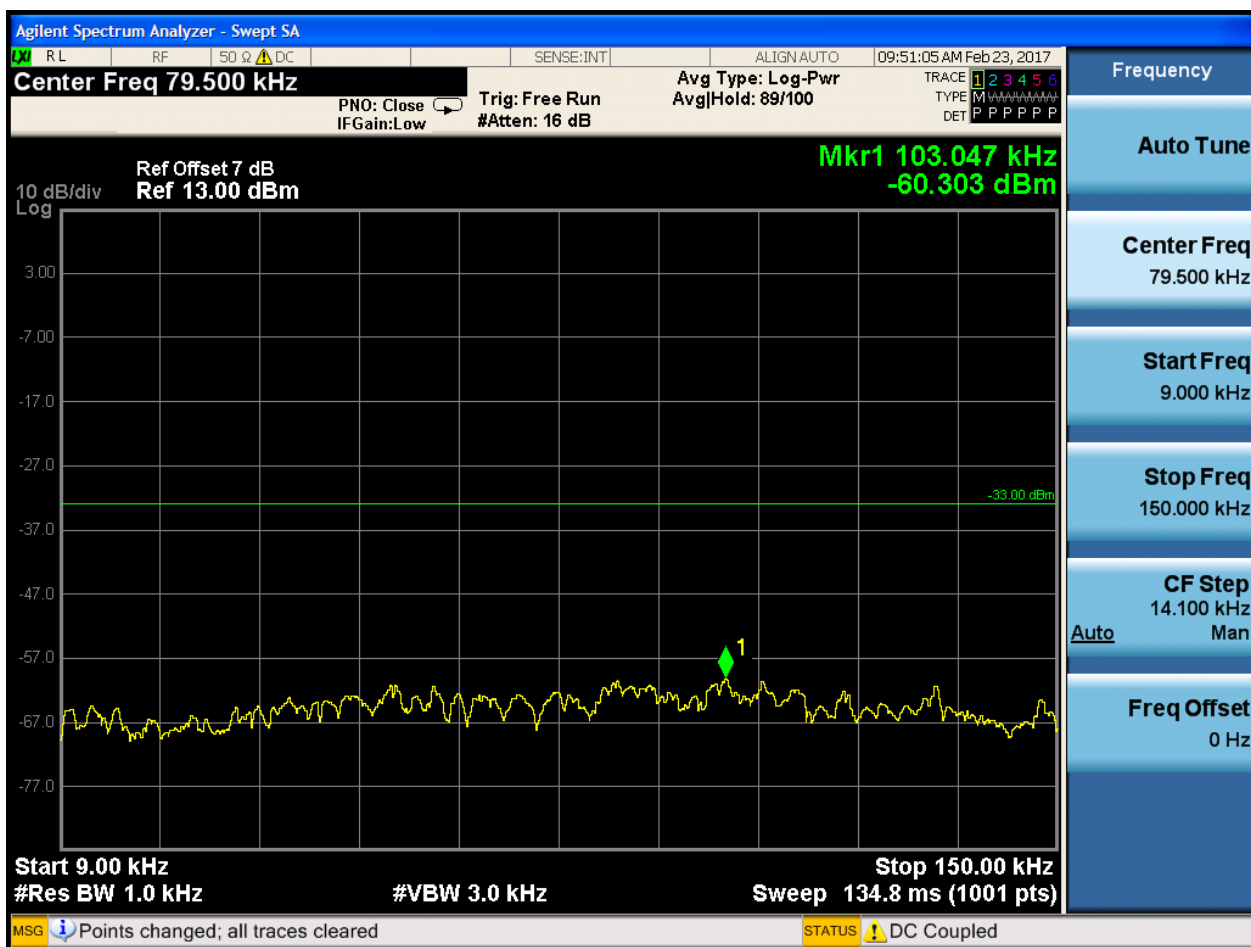


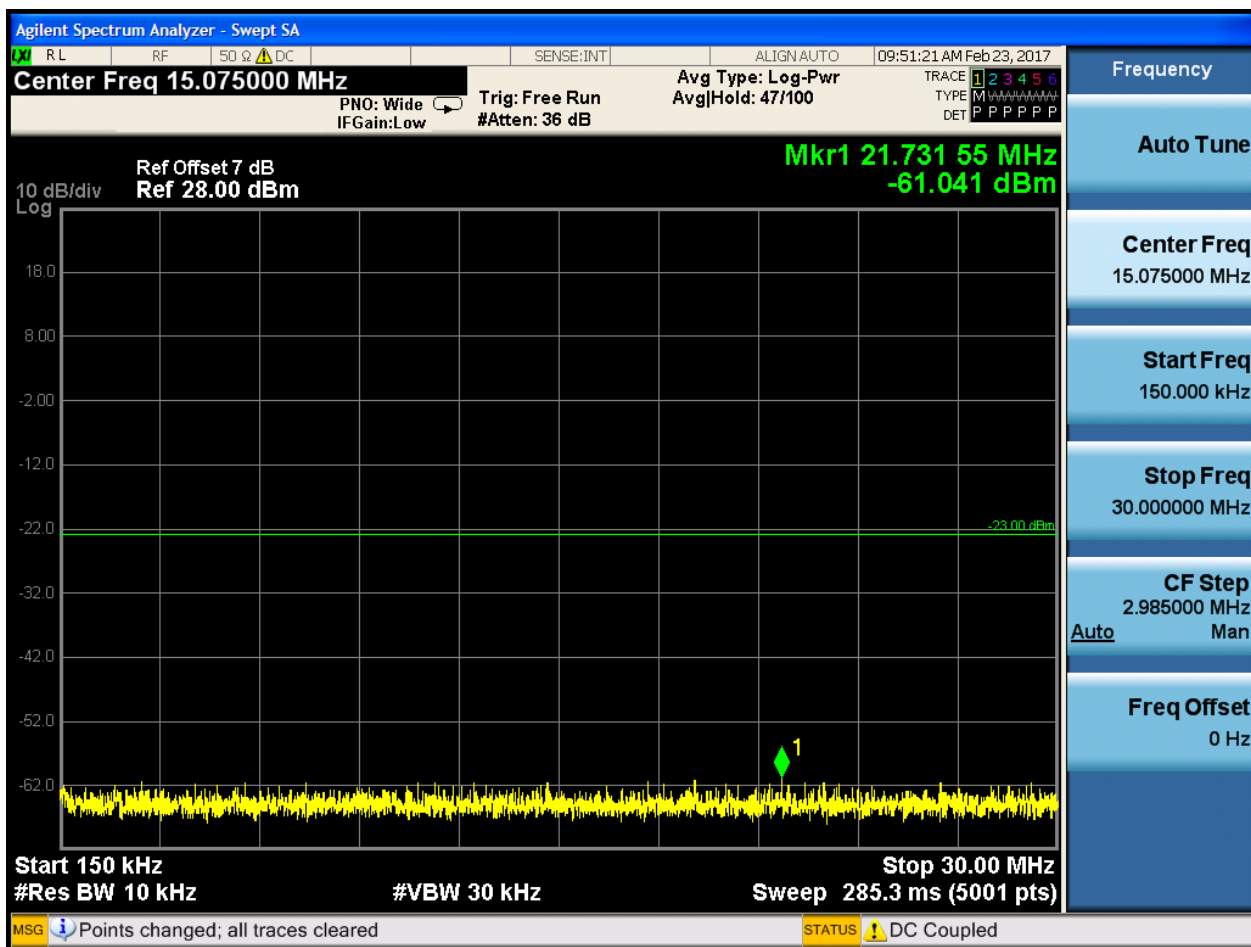


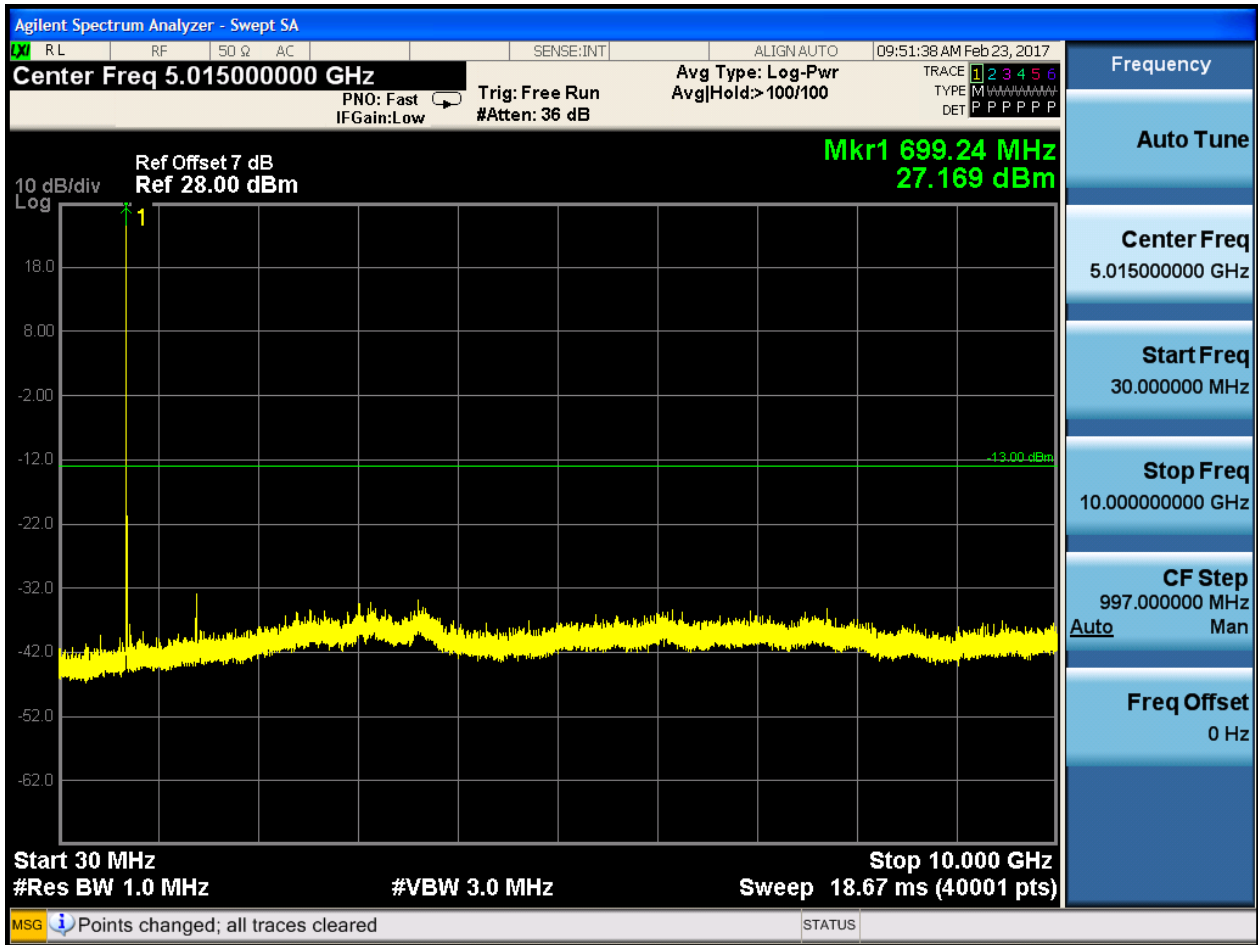
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



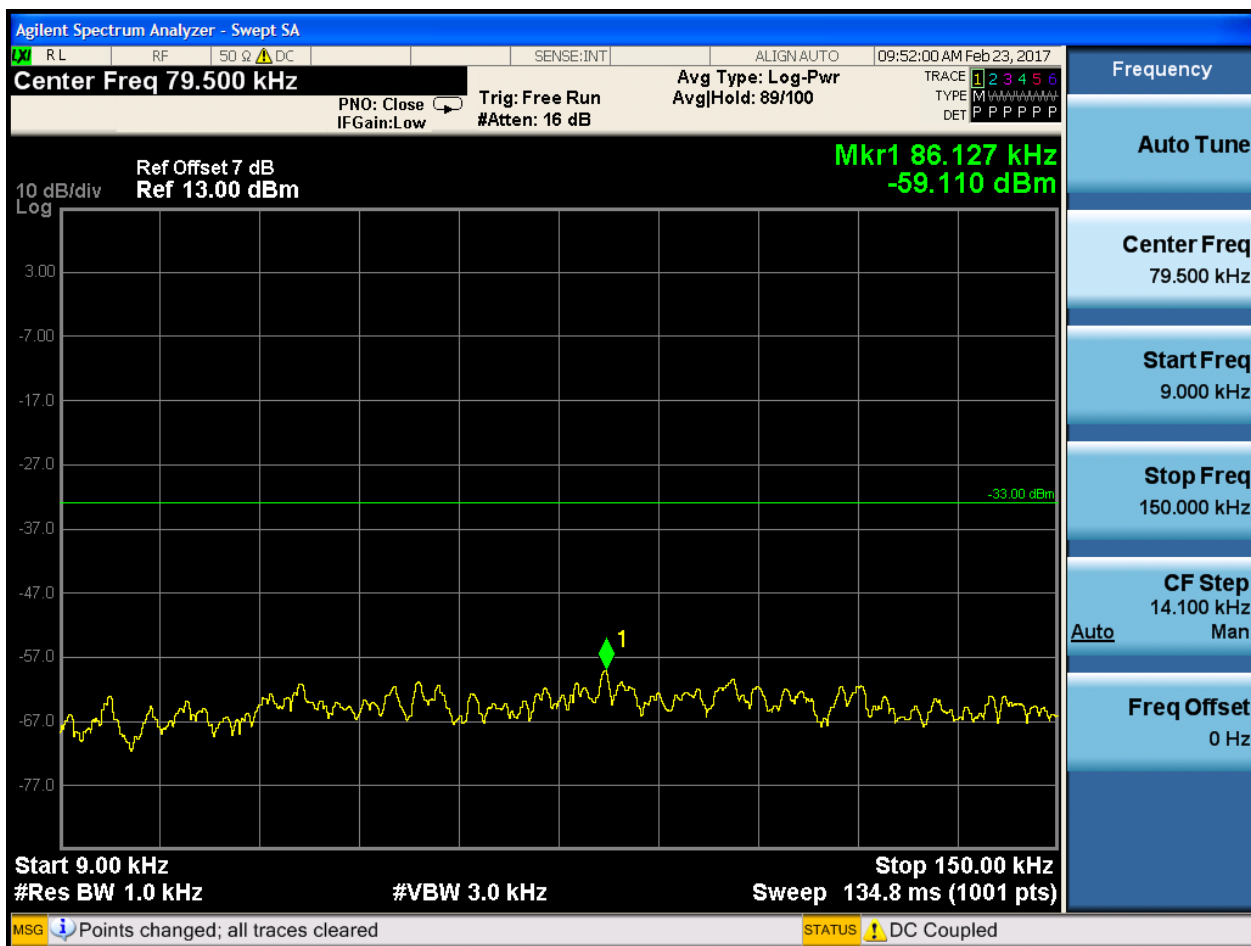


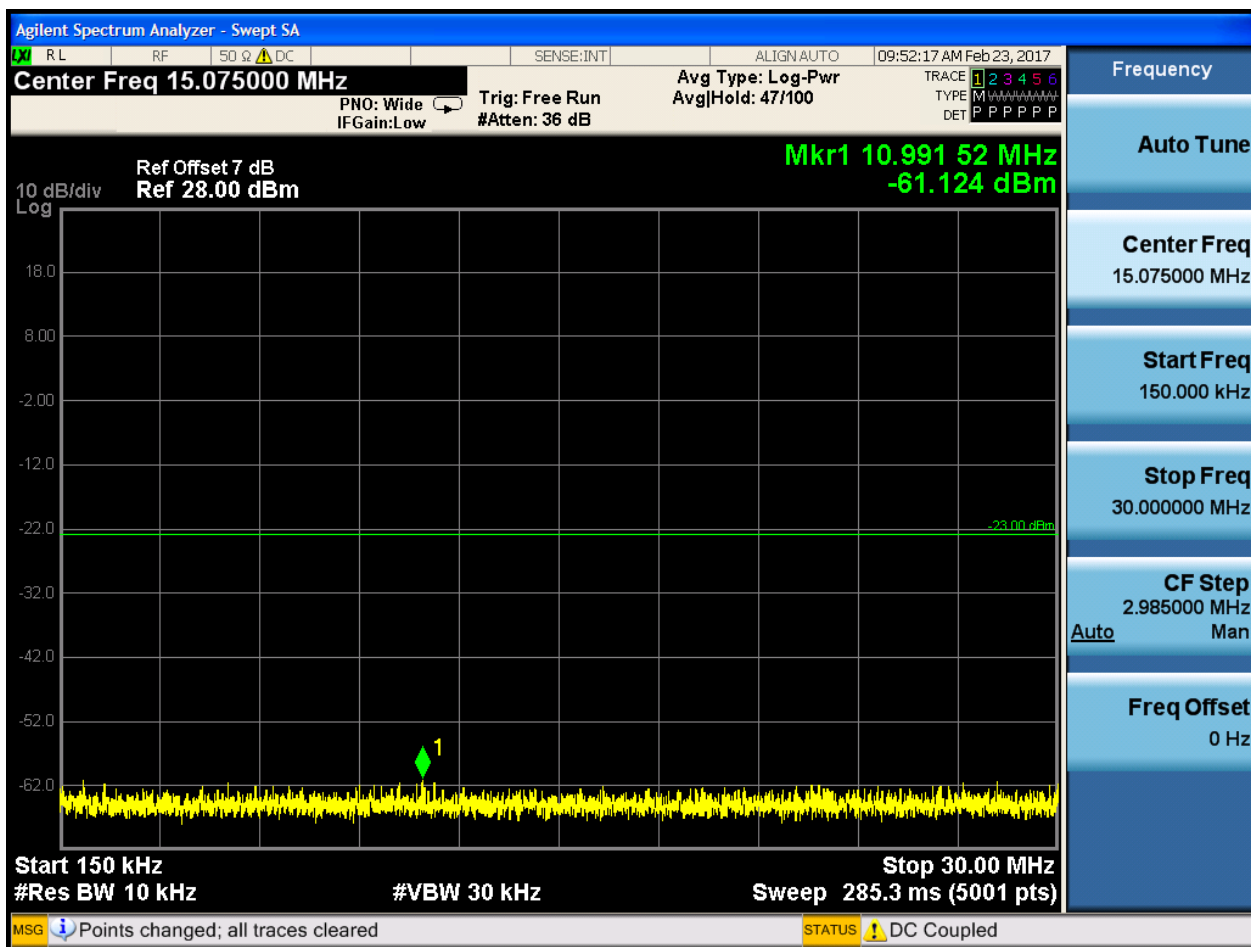


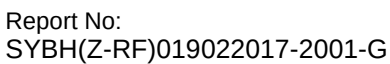


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0

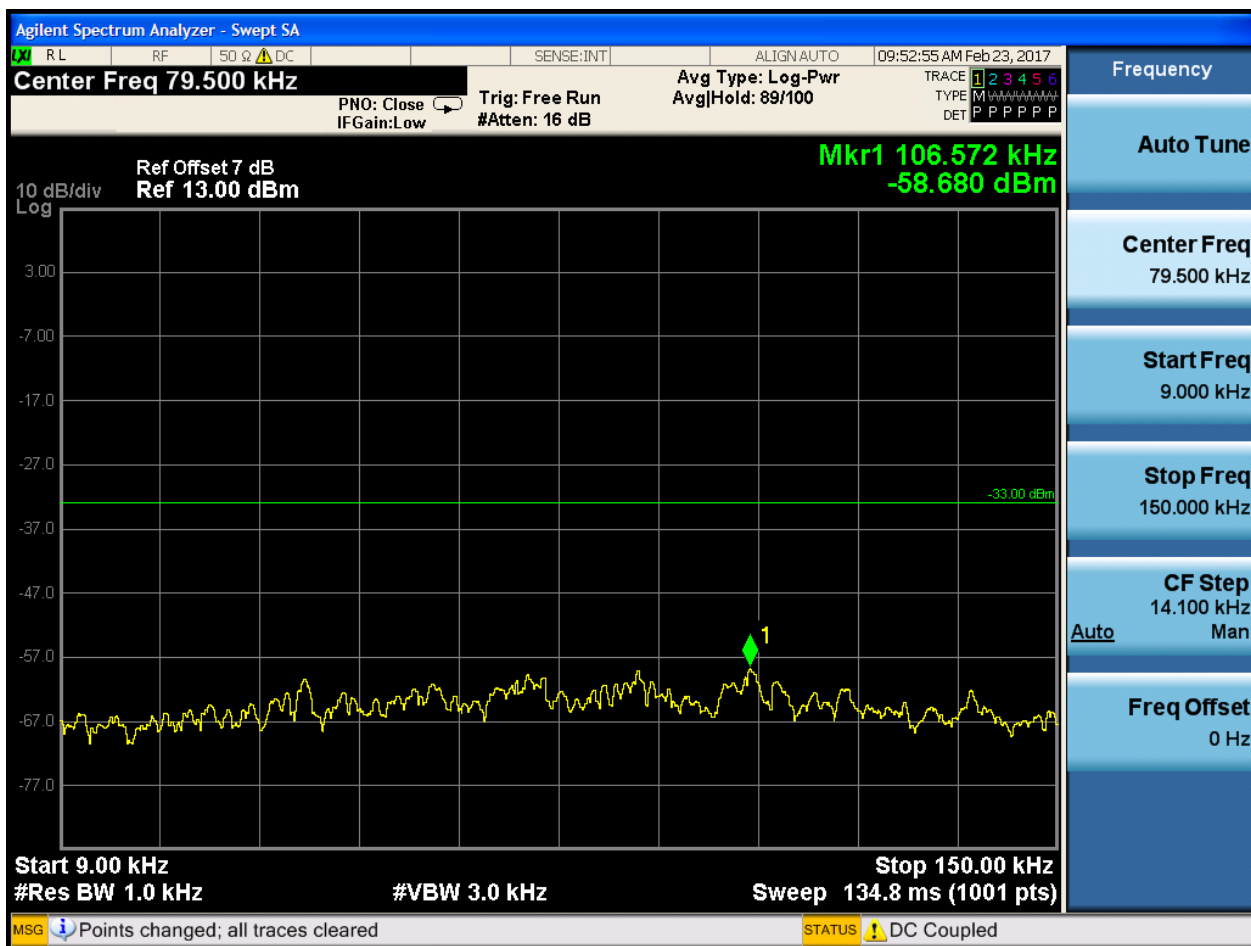


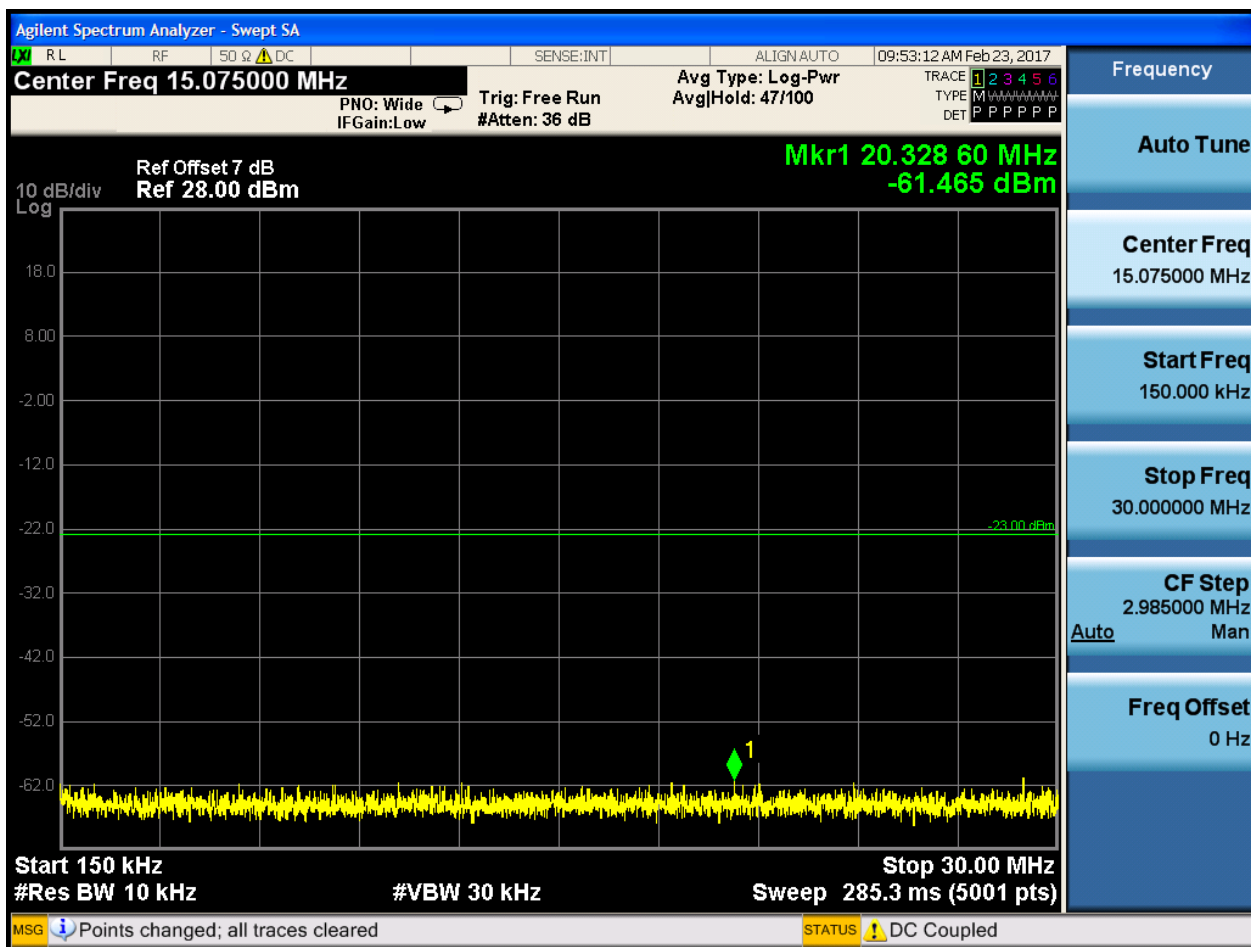


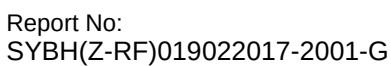


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



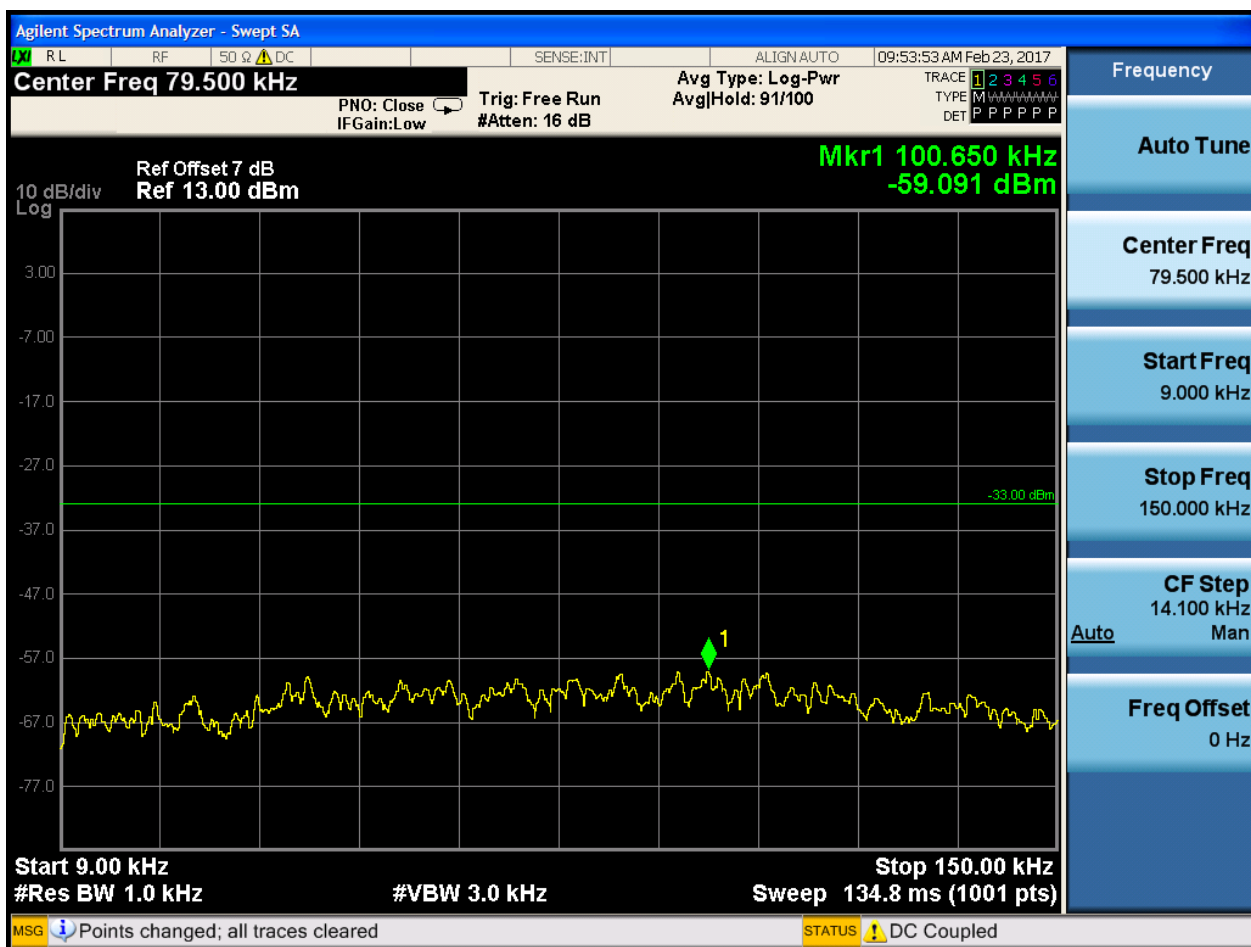


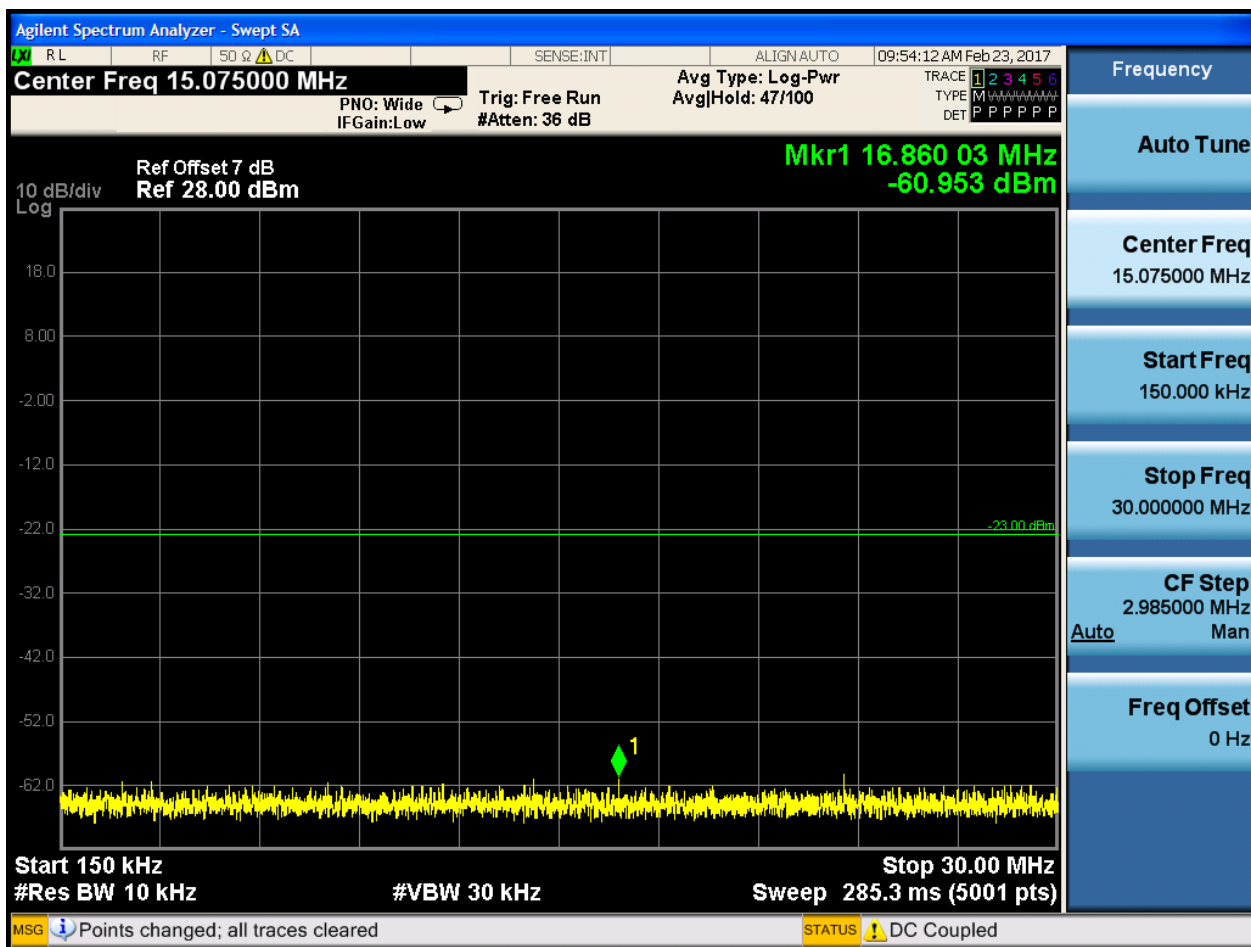


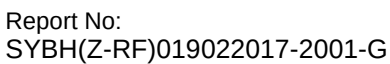
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0

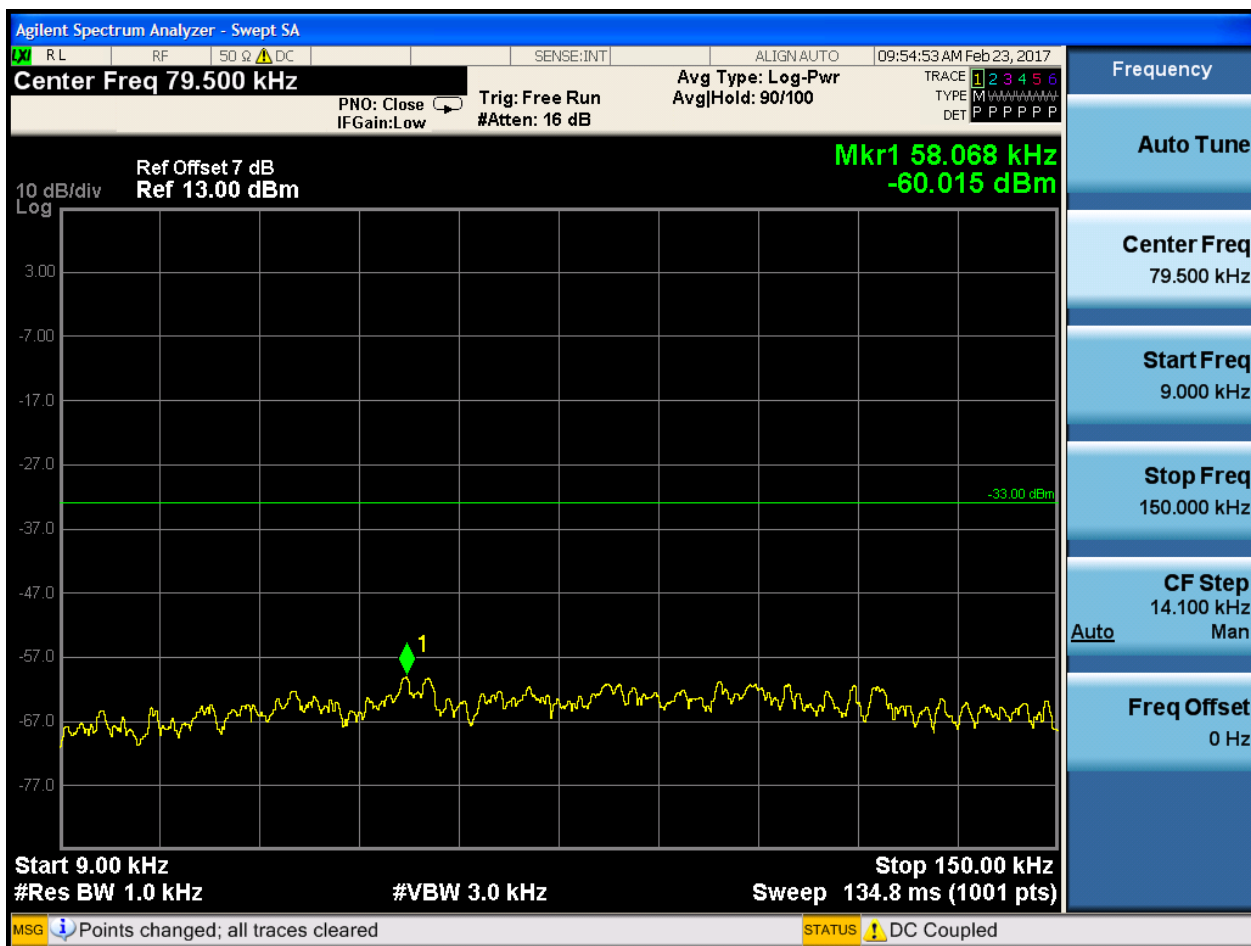


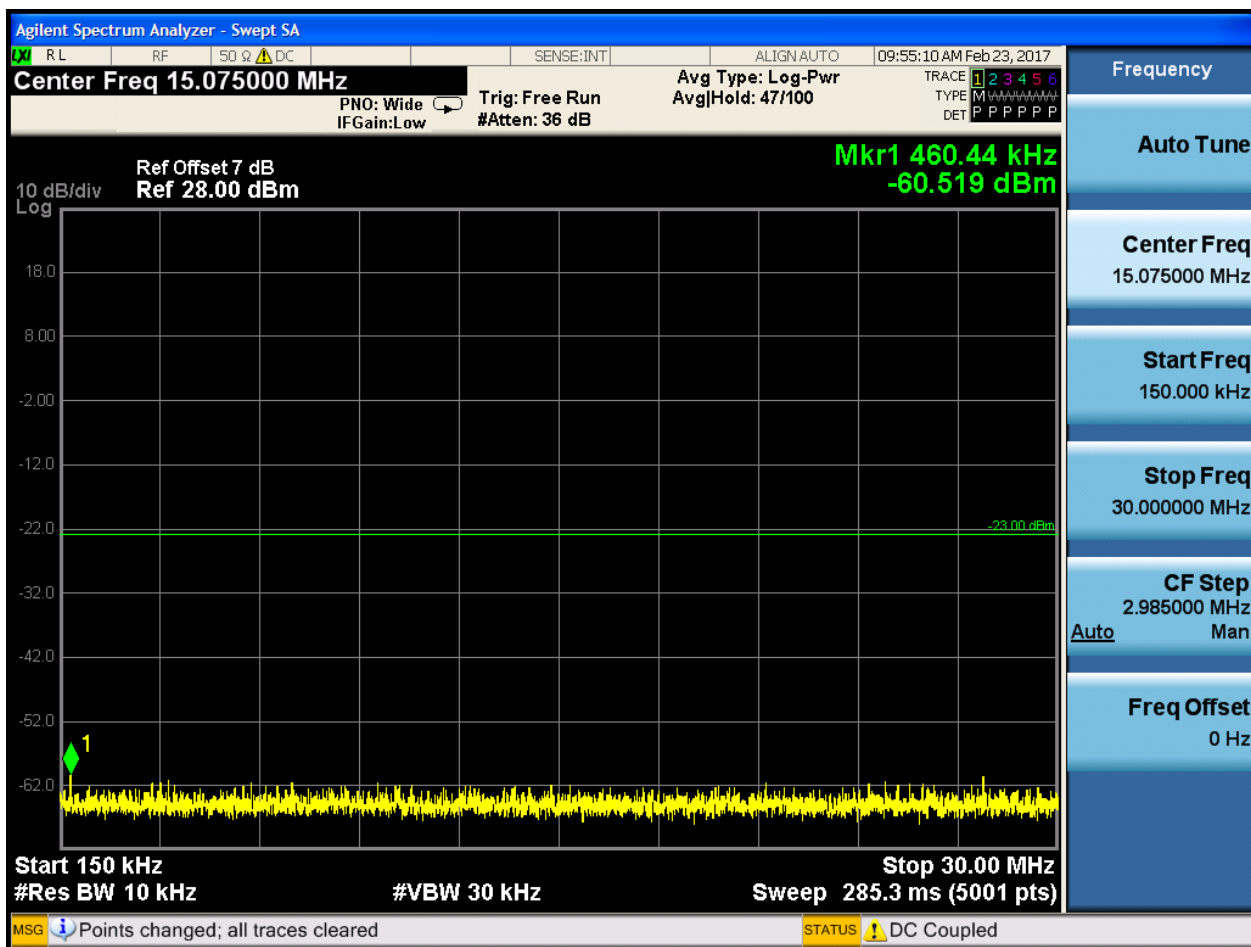


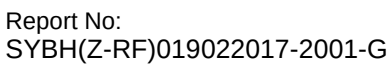


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



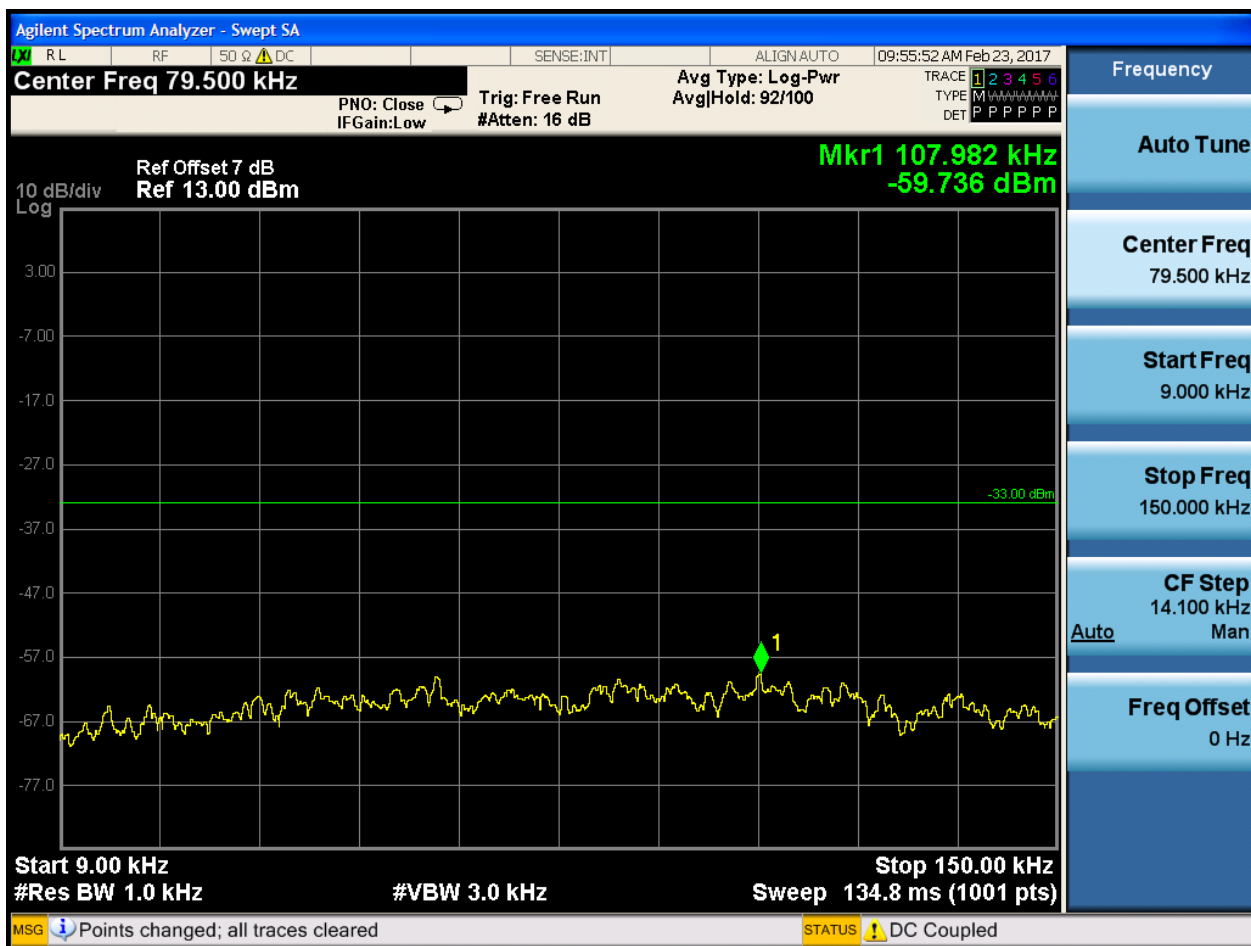


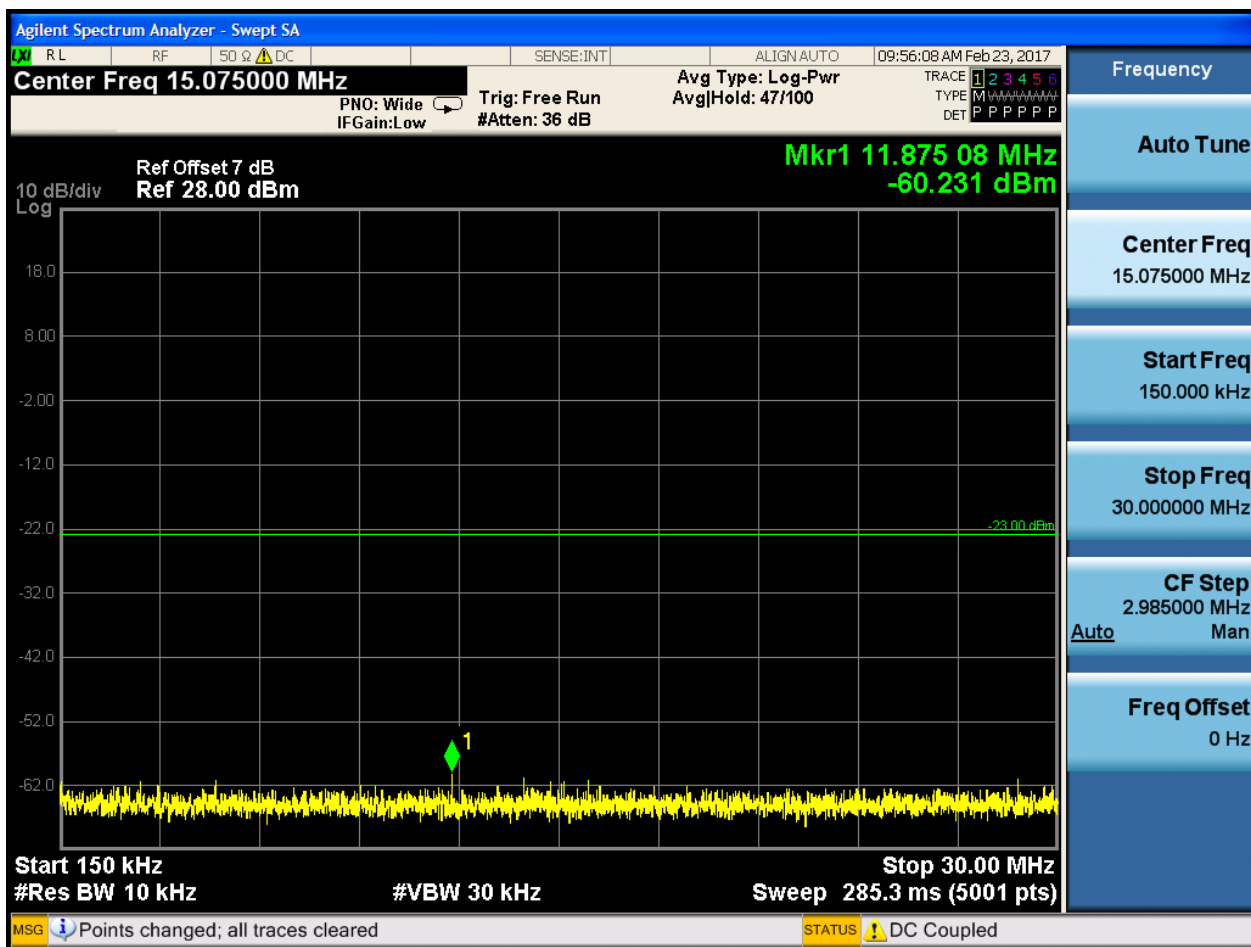


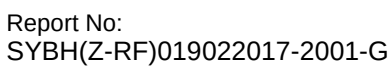


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







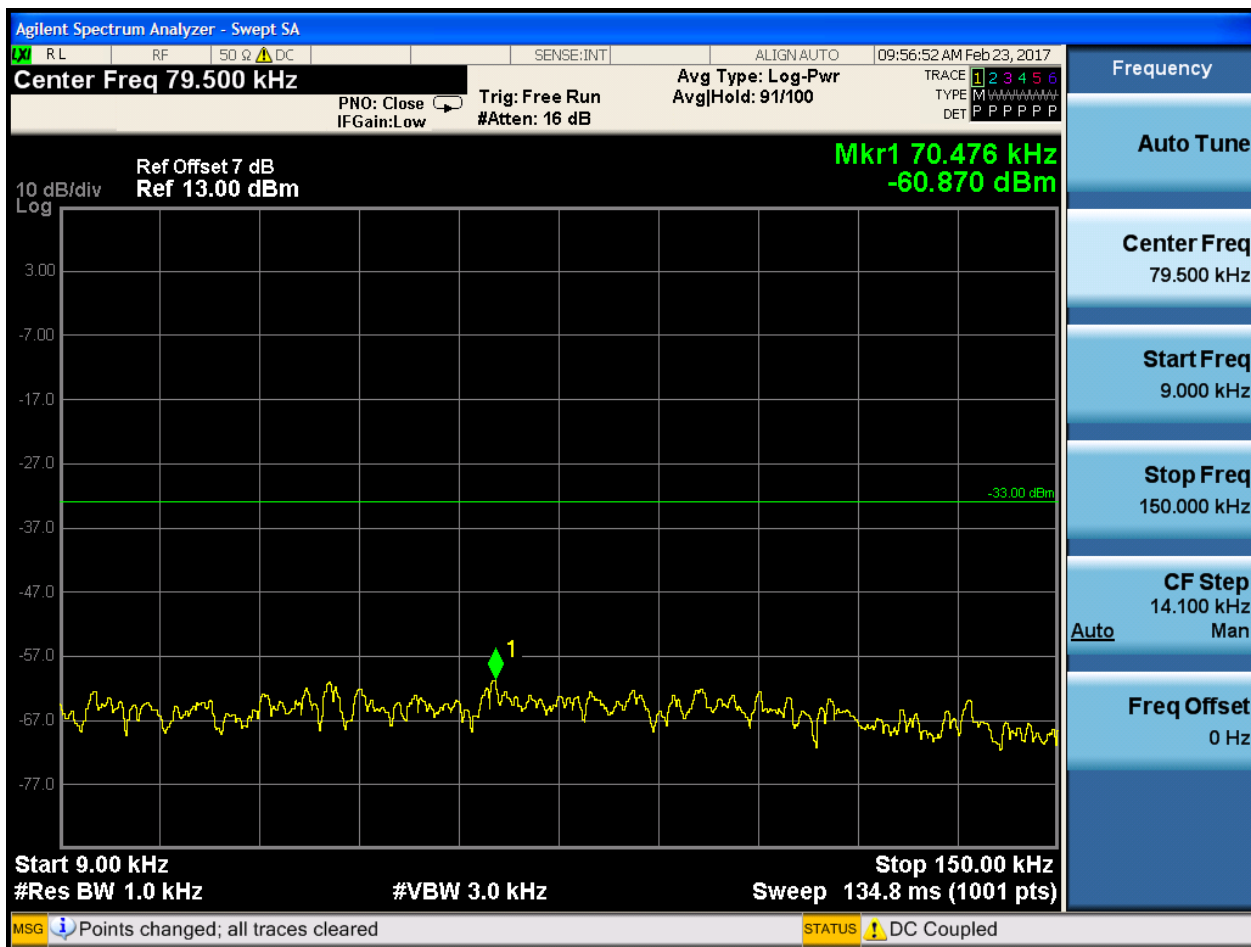


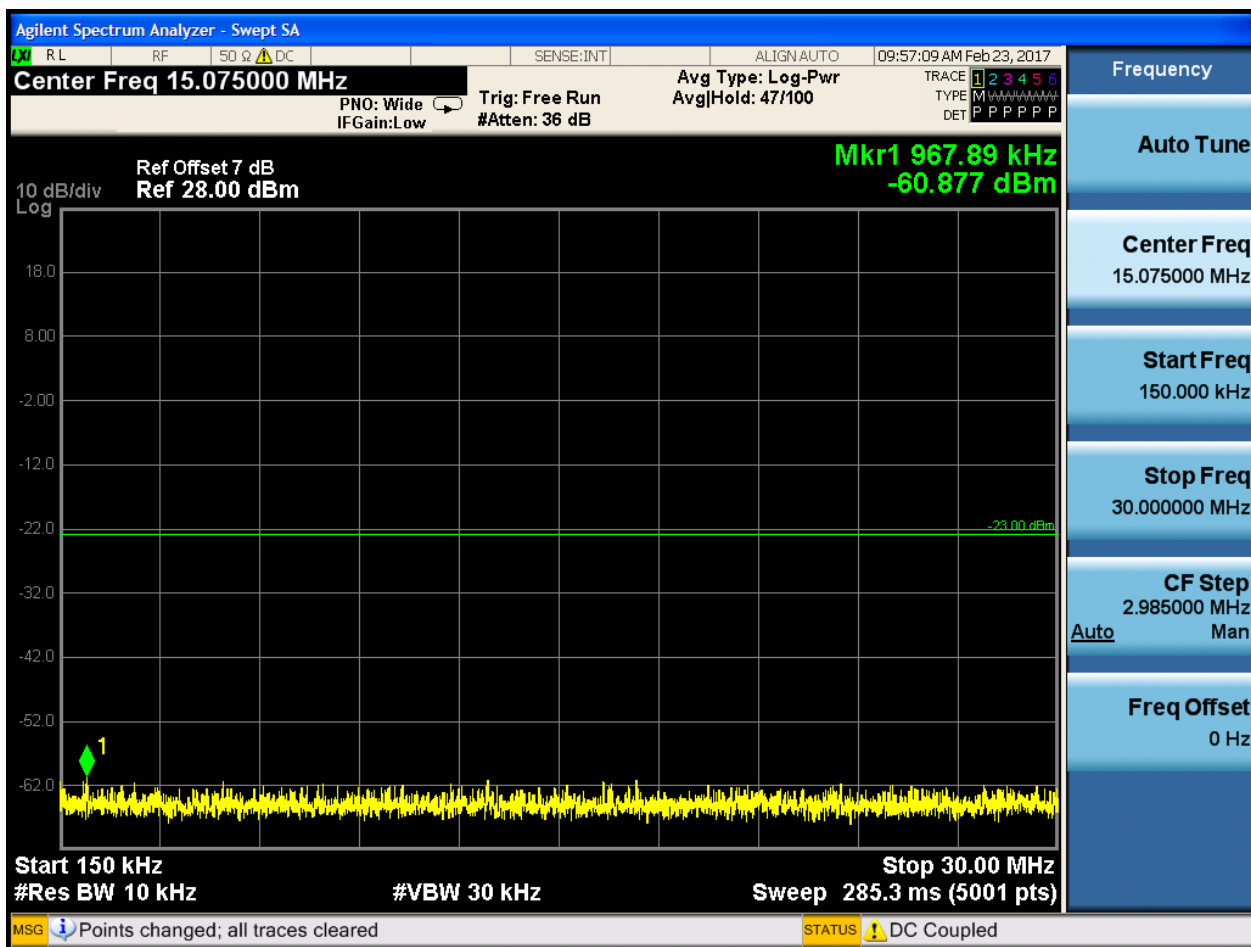
6.1.1.2 Test Mode = LTE/TM2

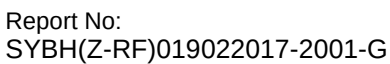
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



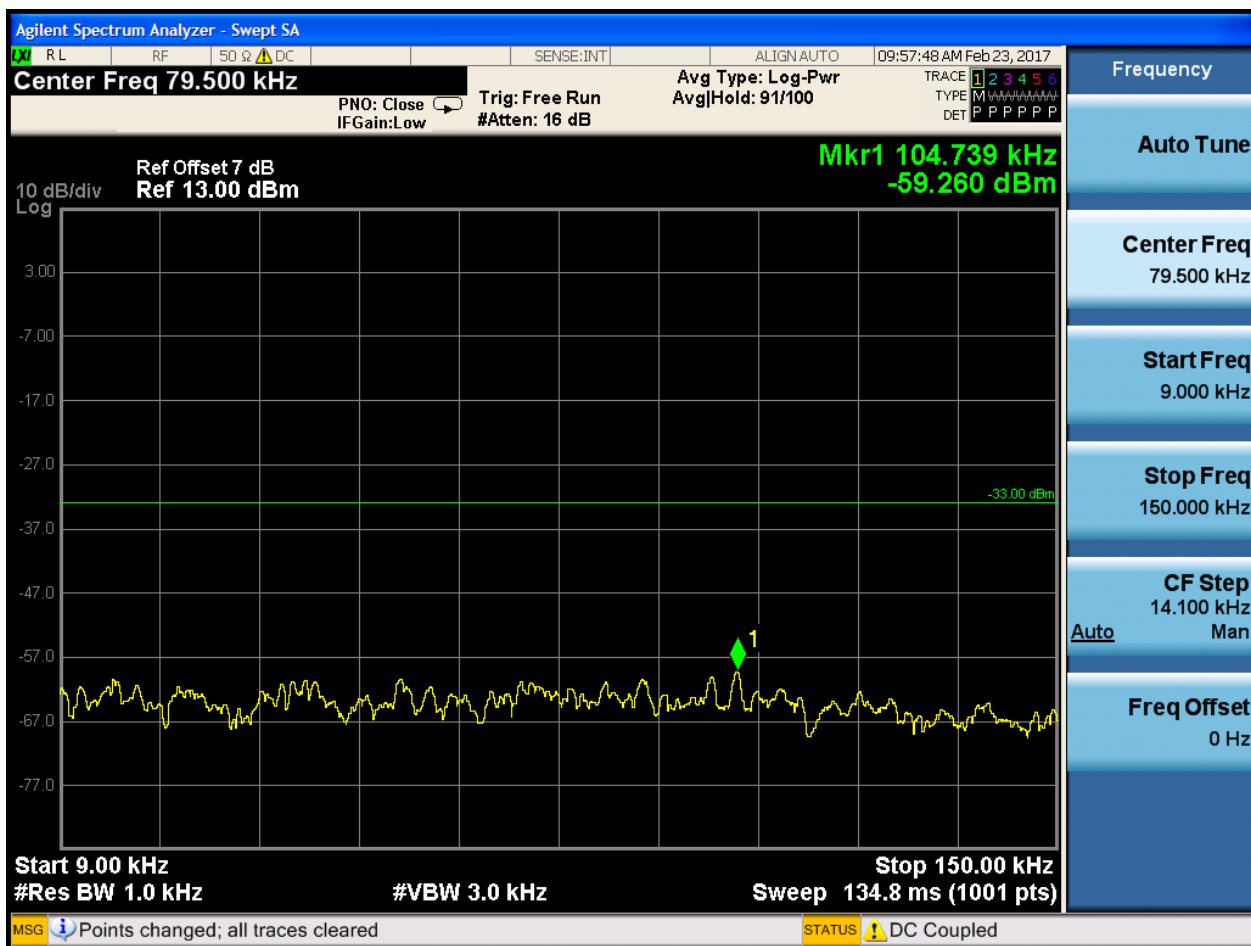


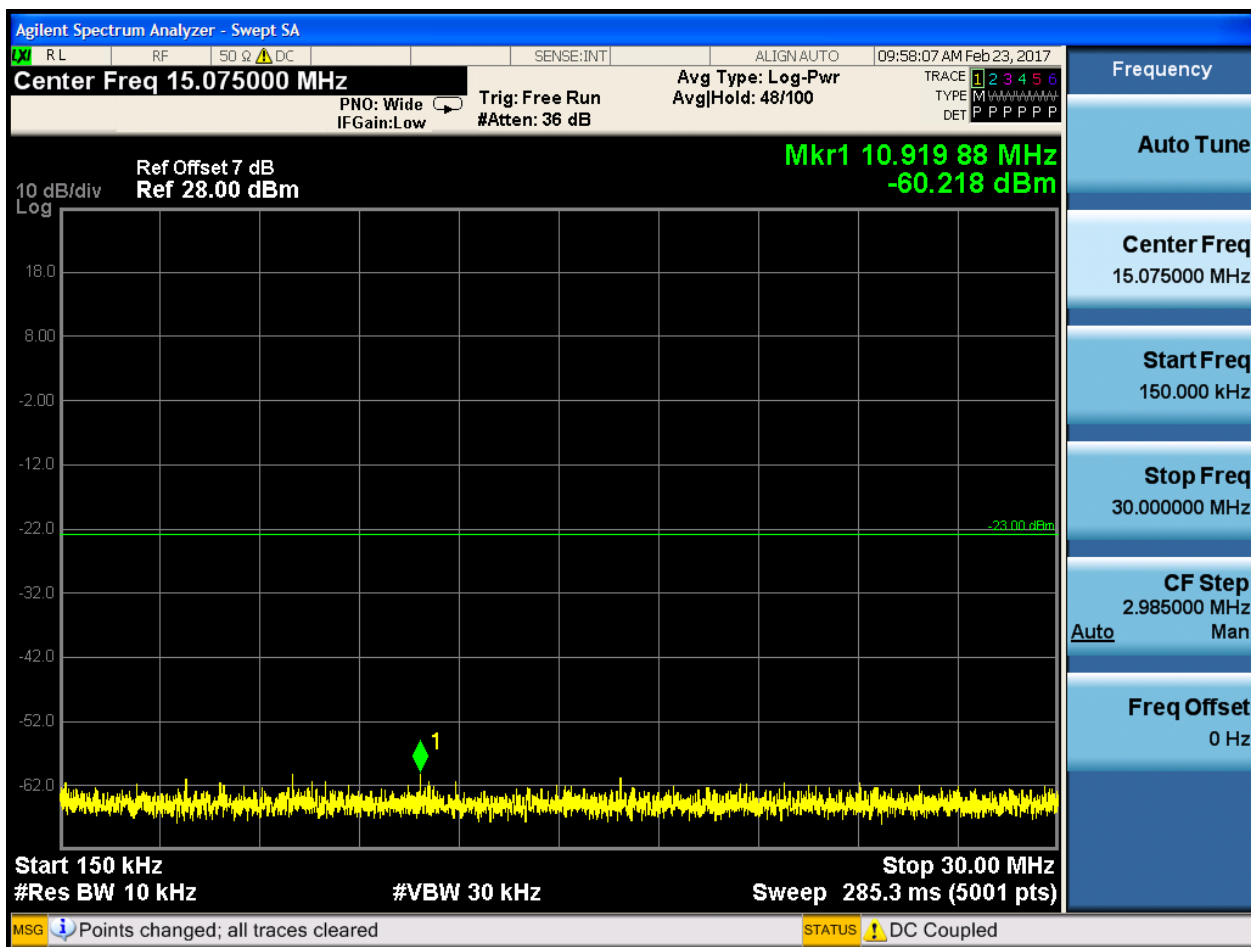


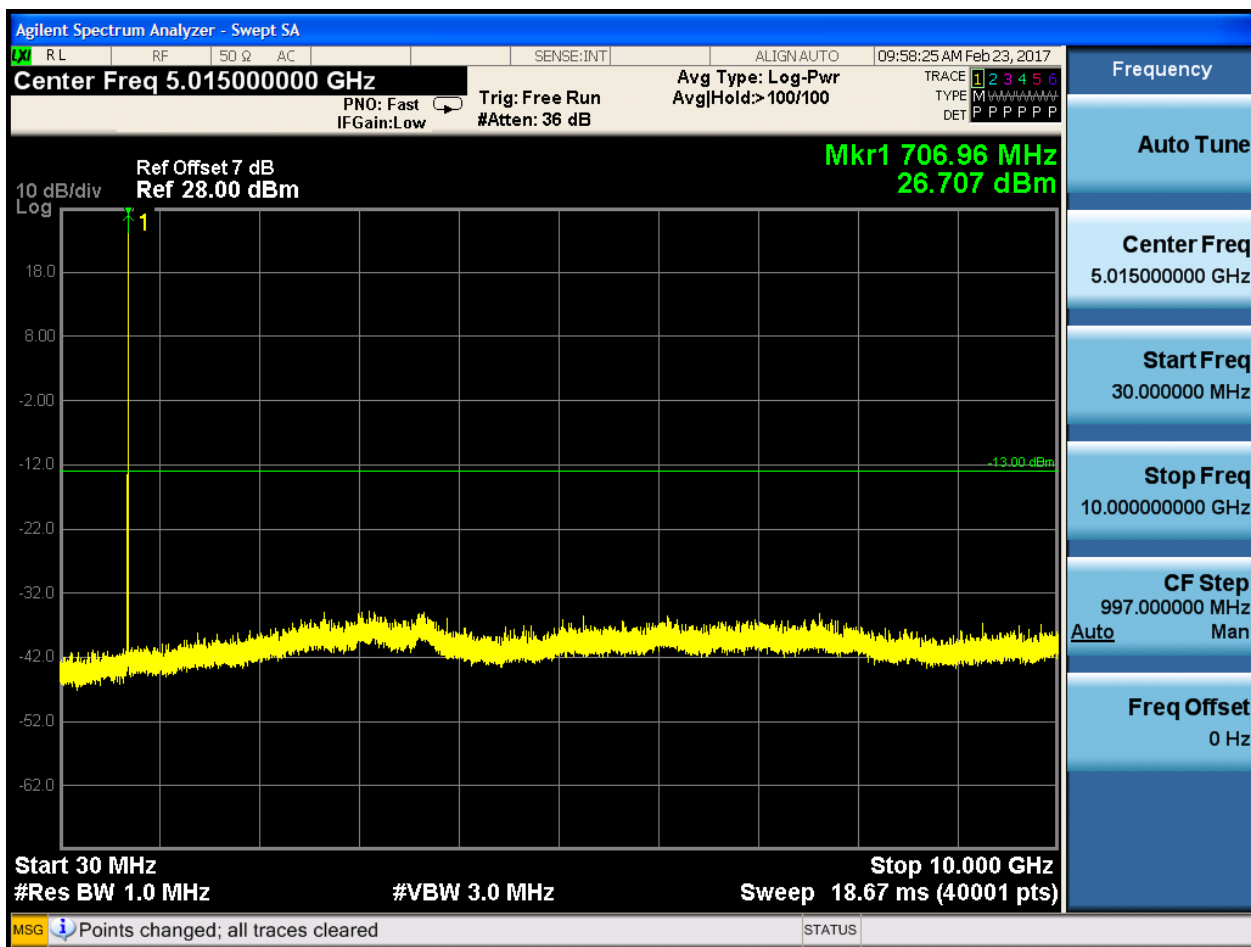


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0

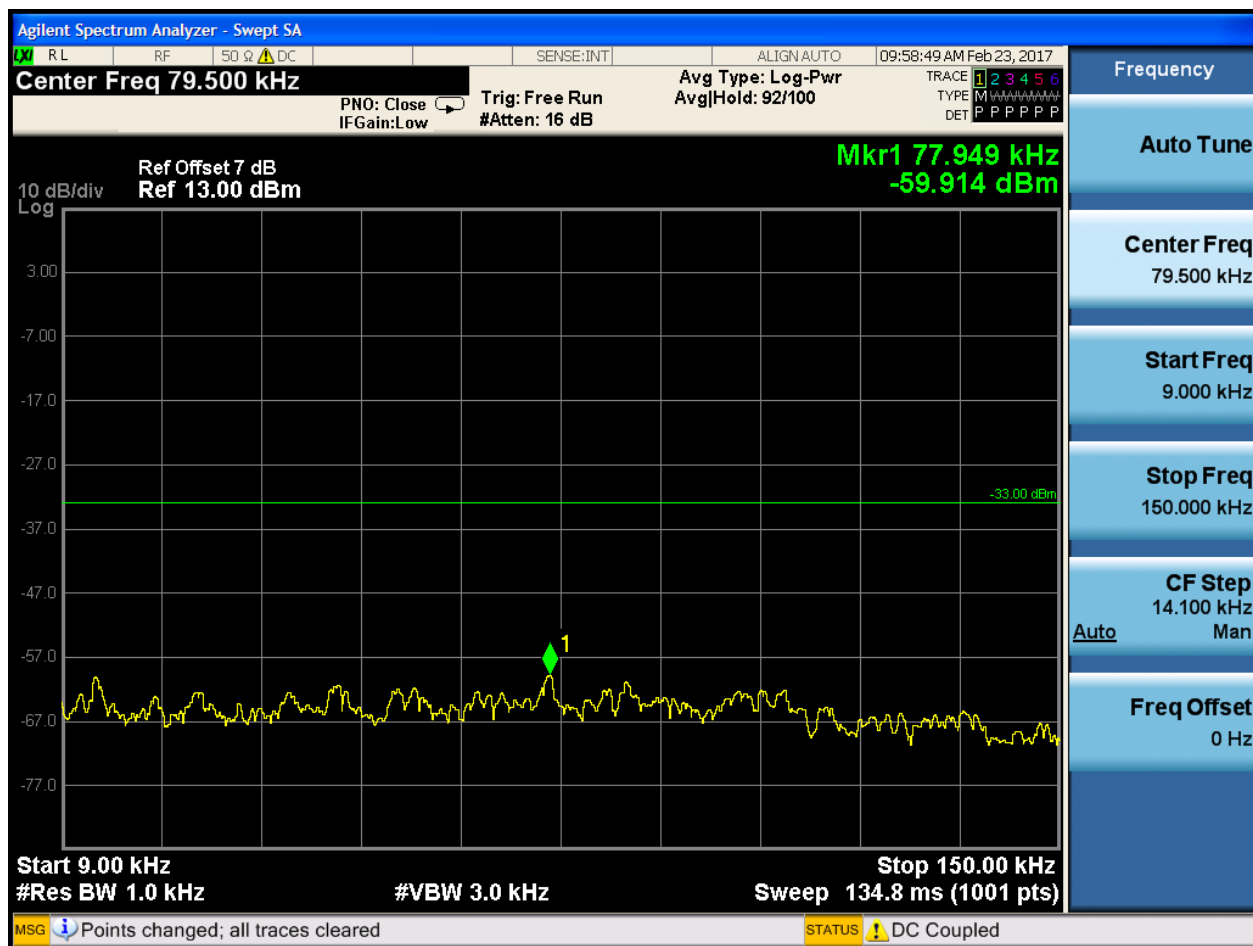


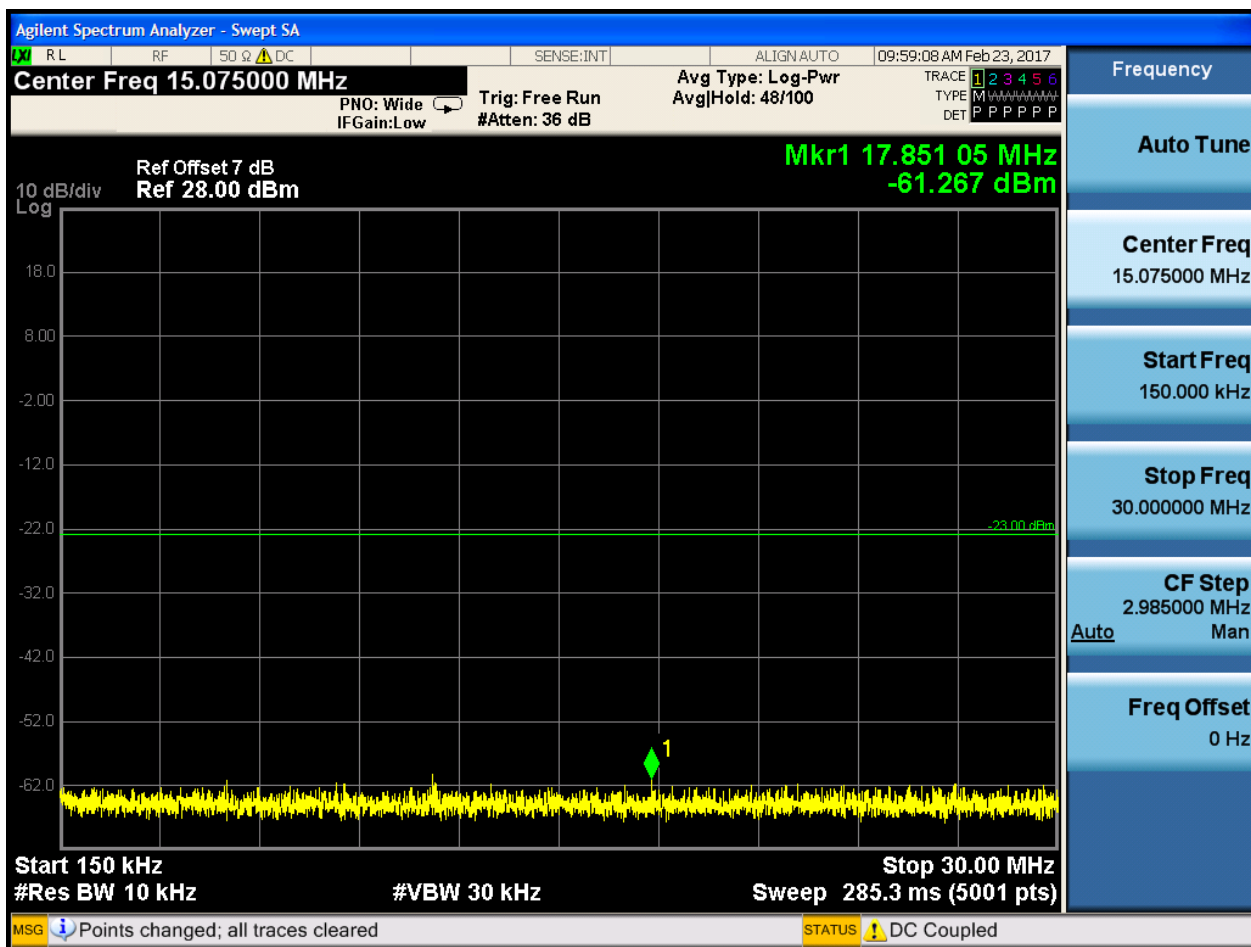


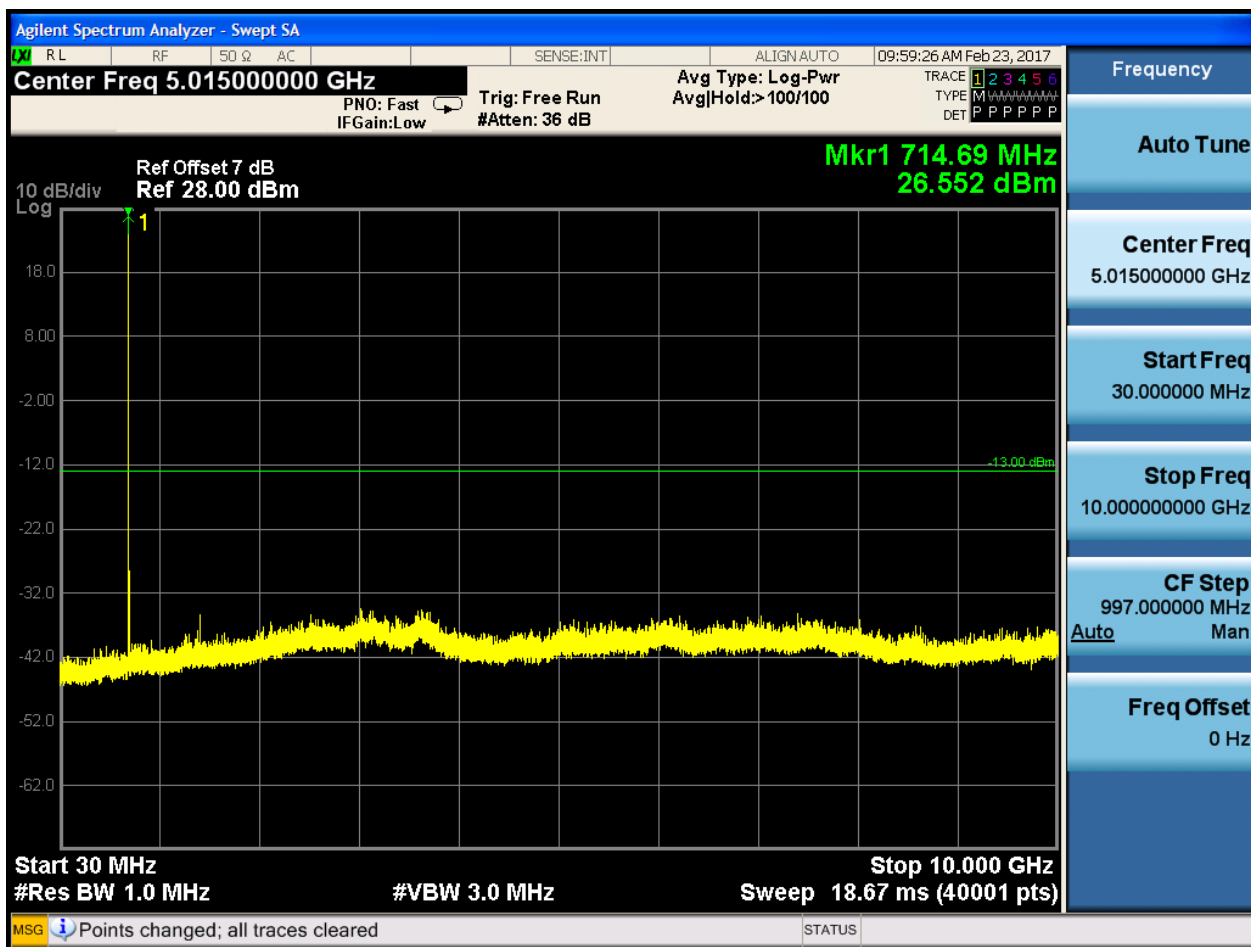


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



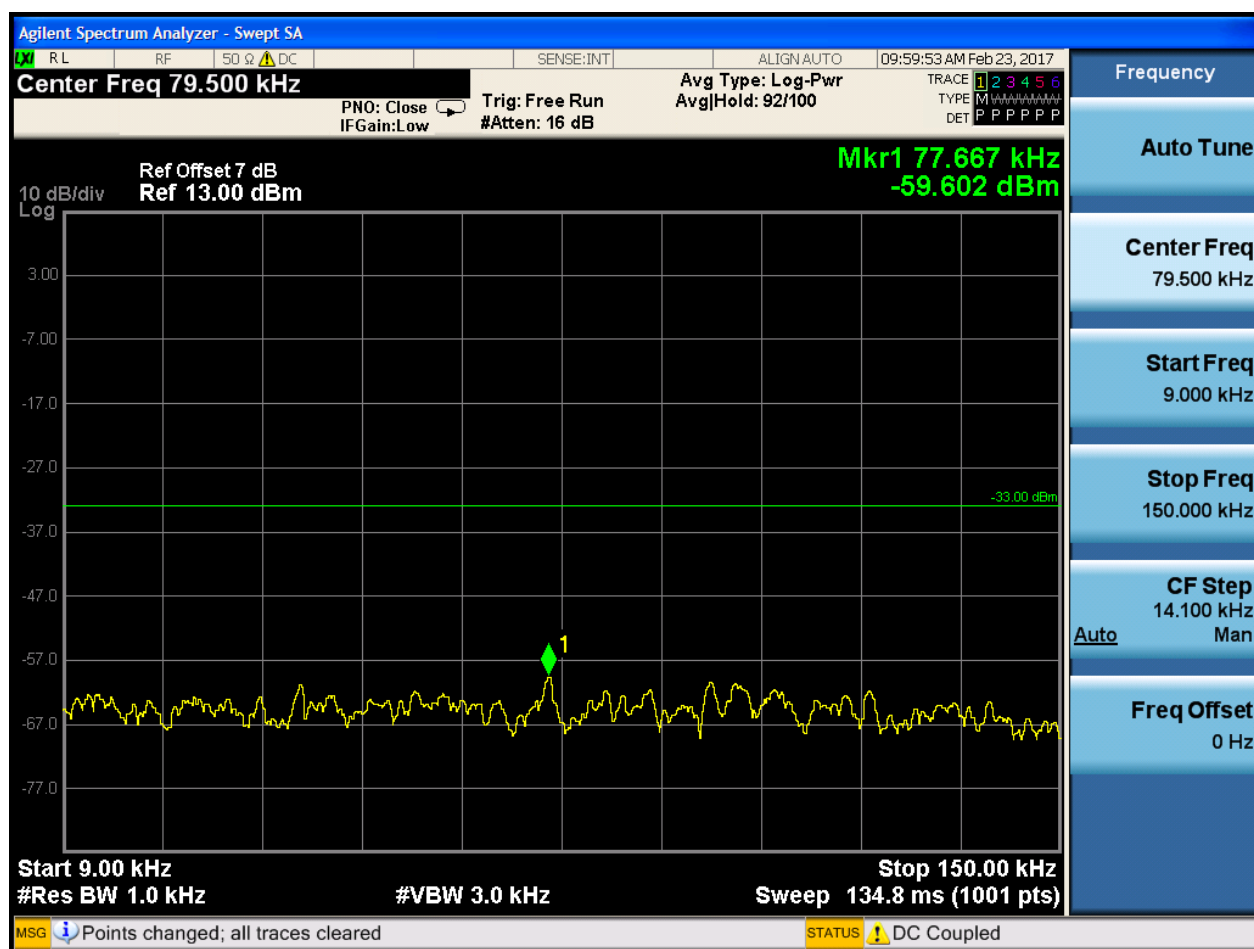


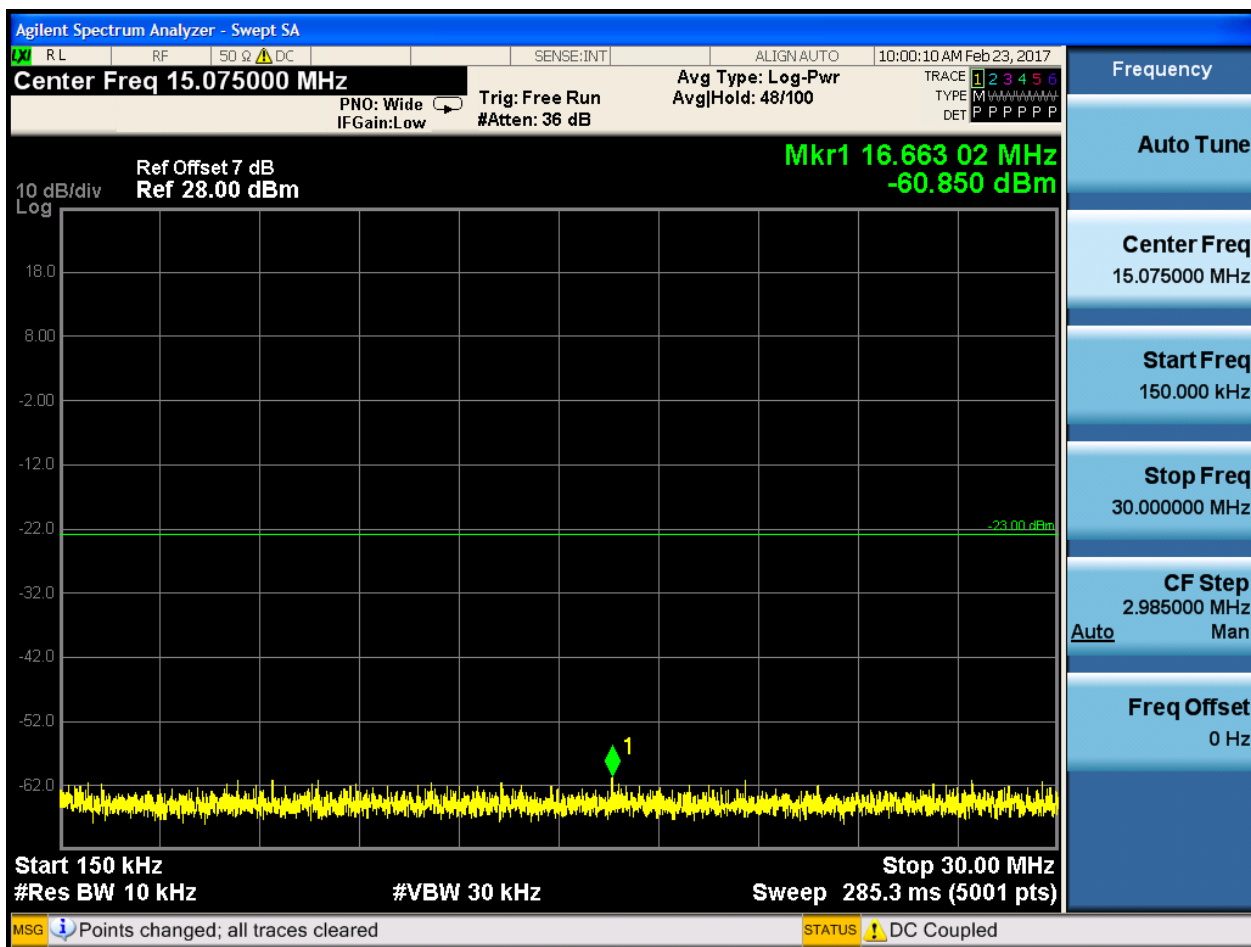


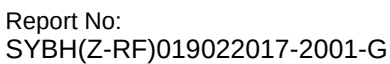
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0

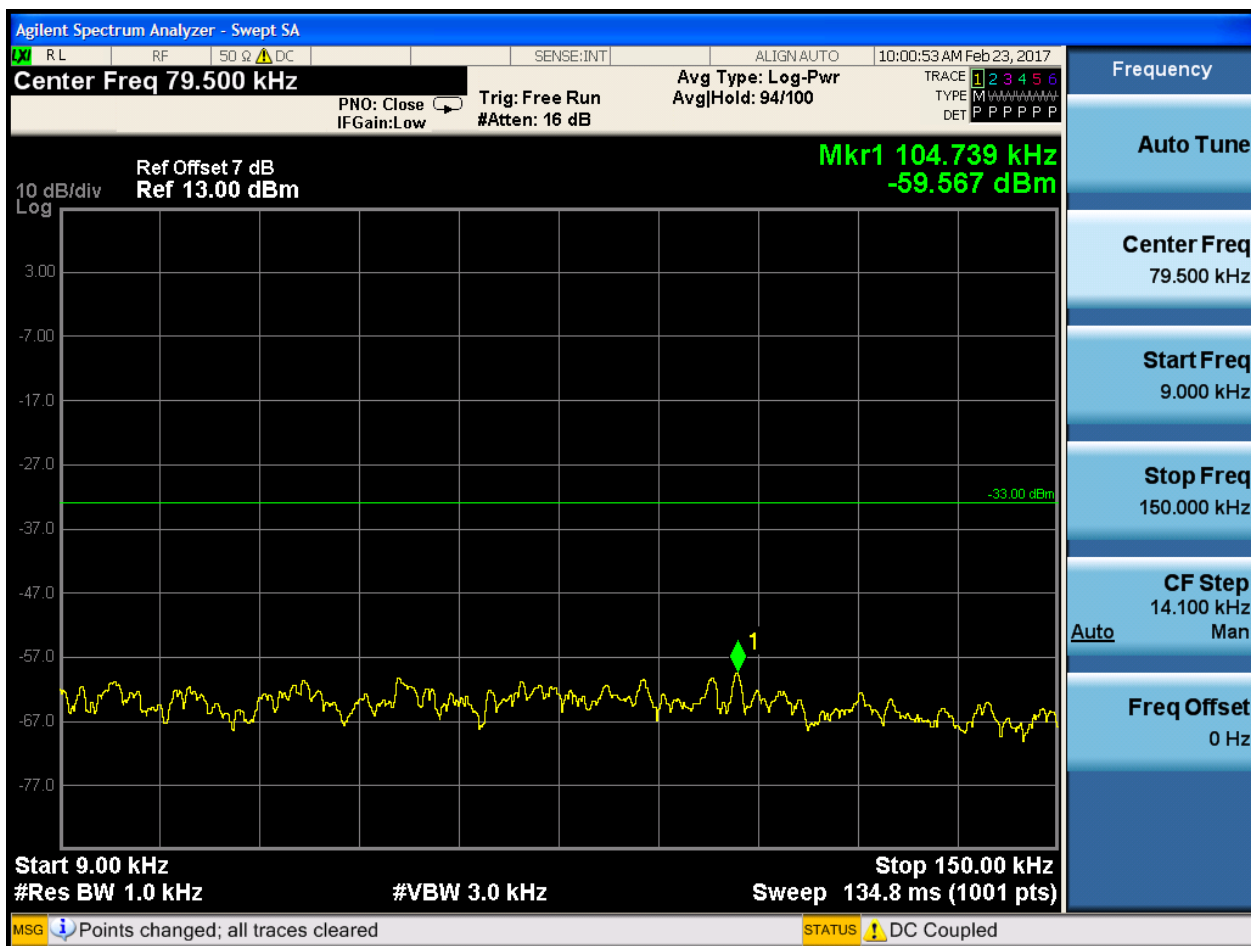


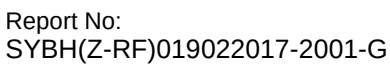


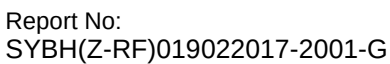


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0

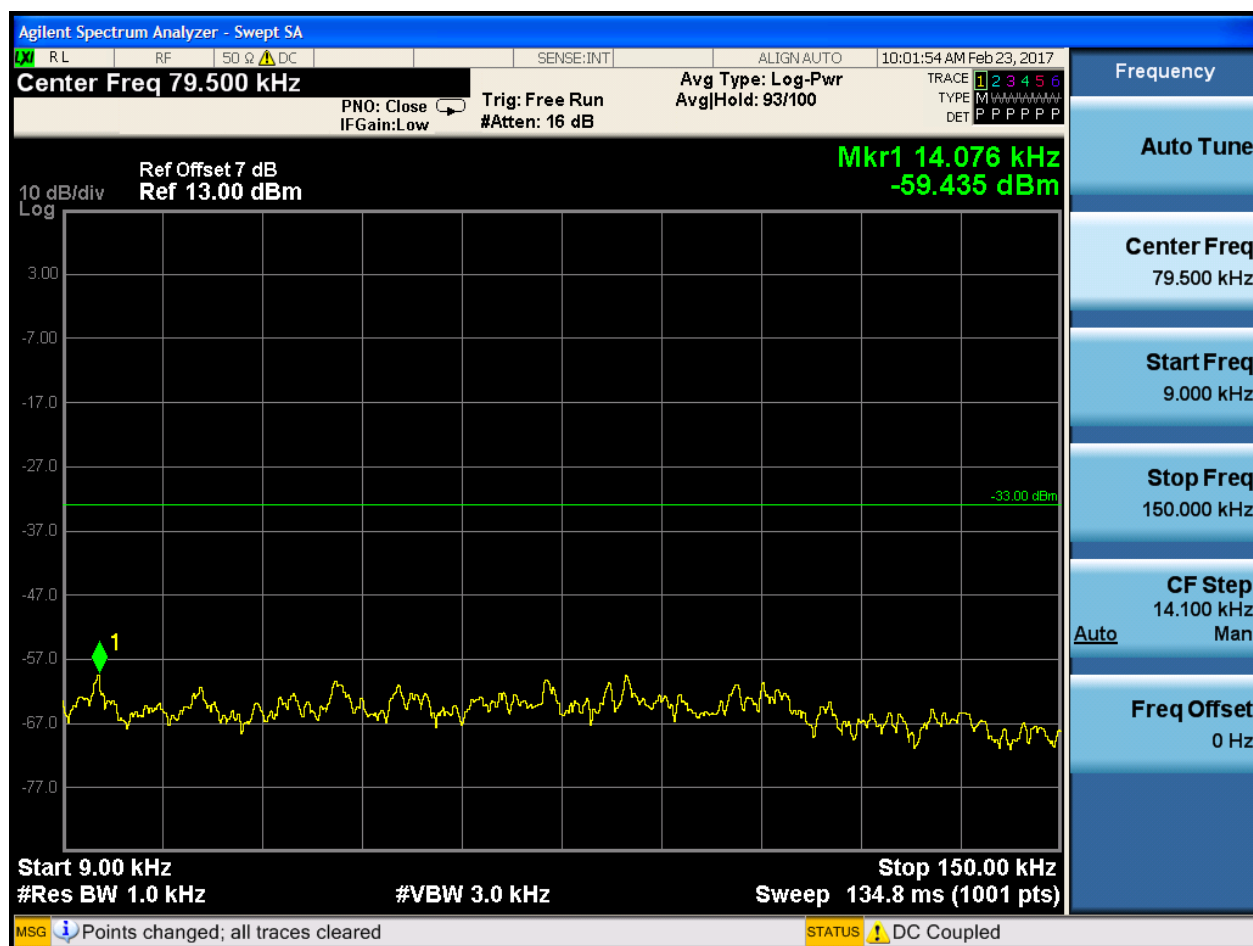


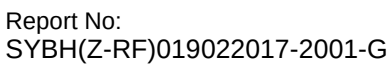


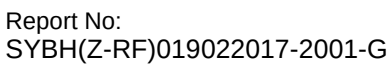


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





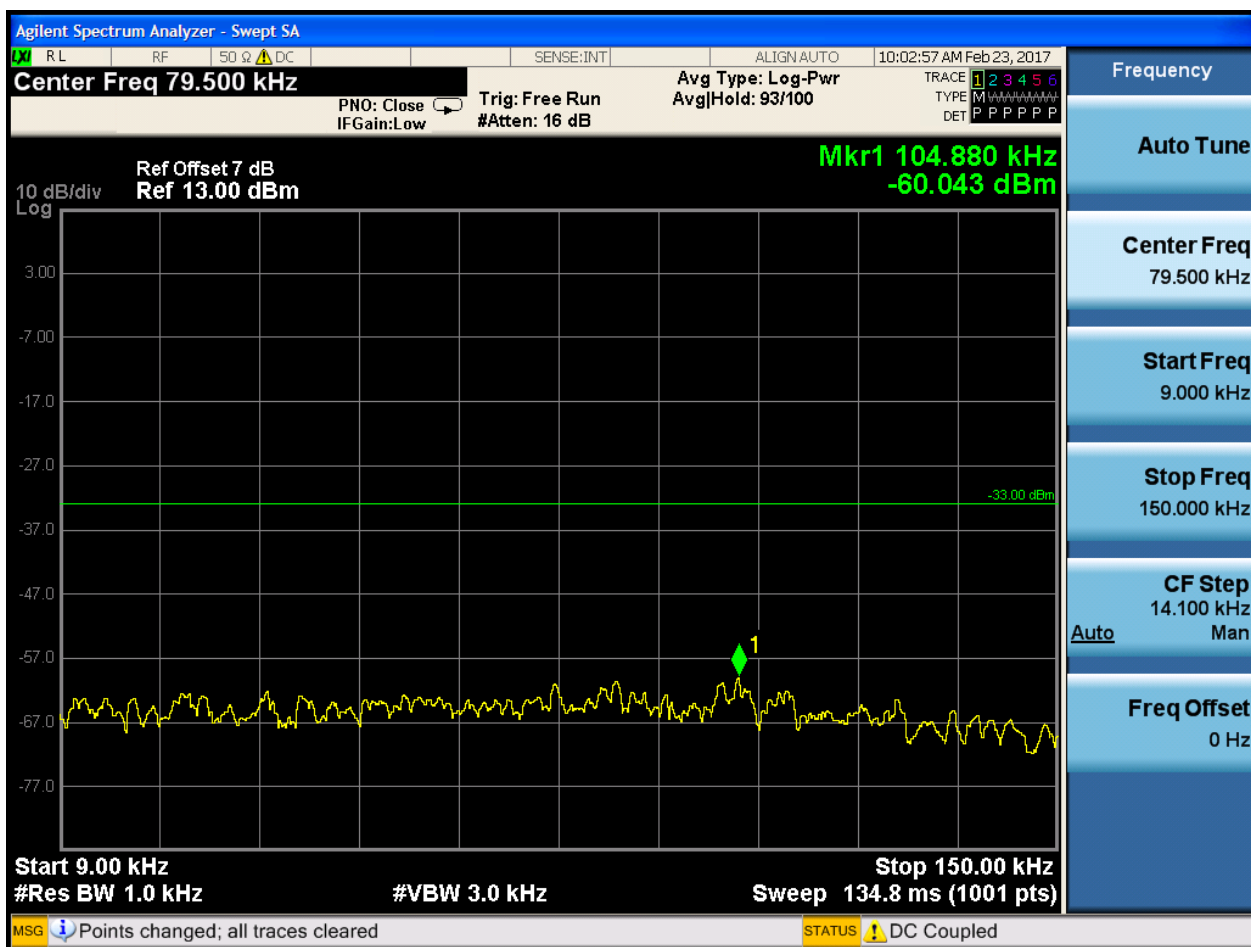


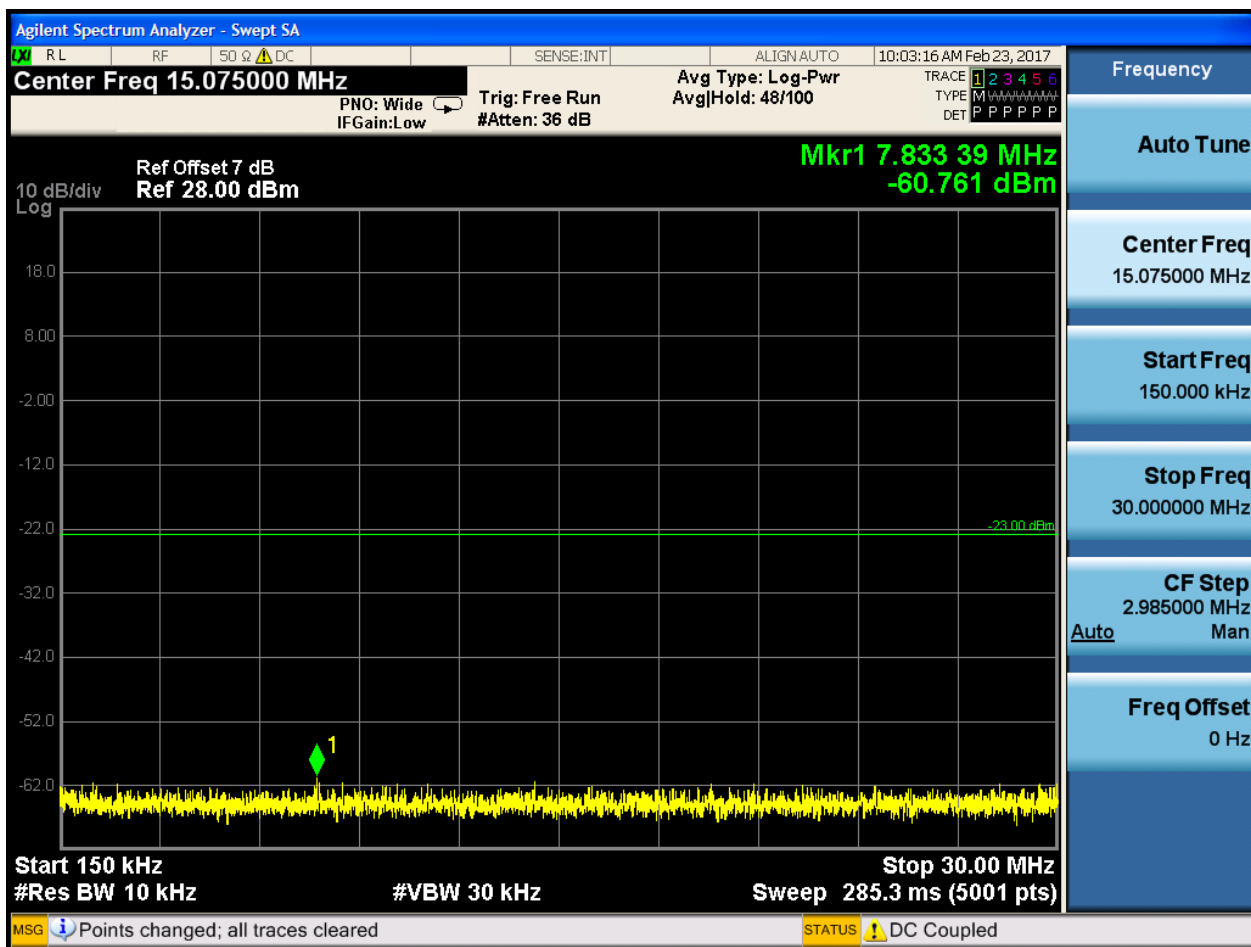


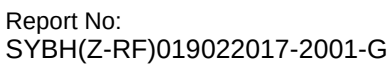
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

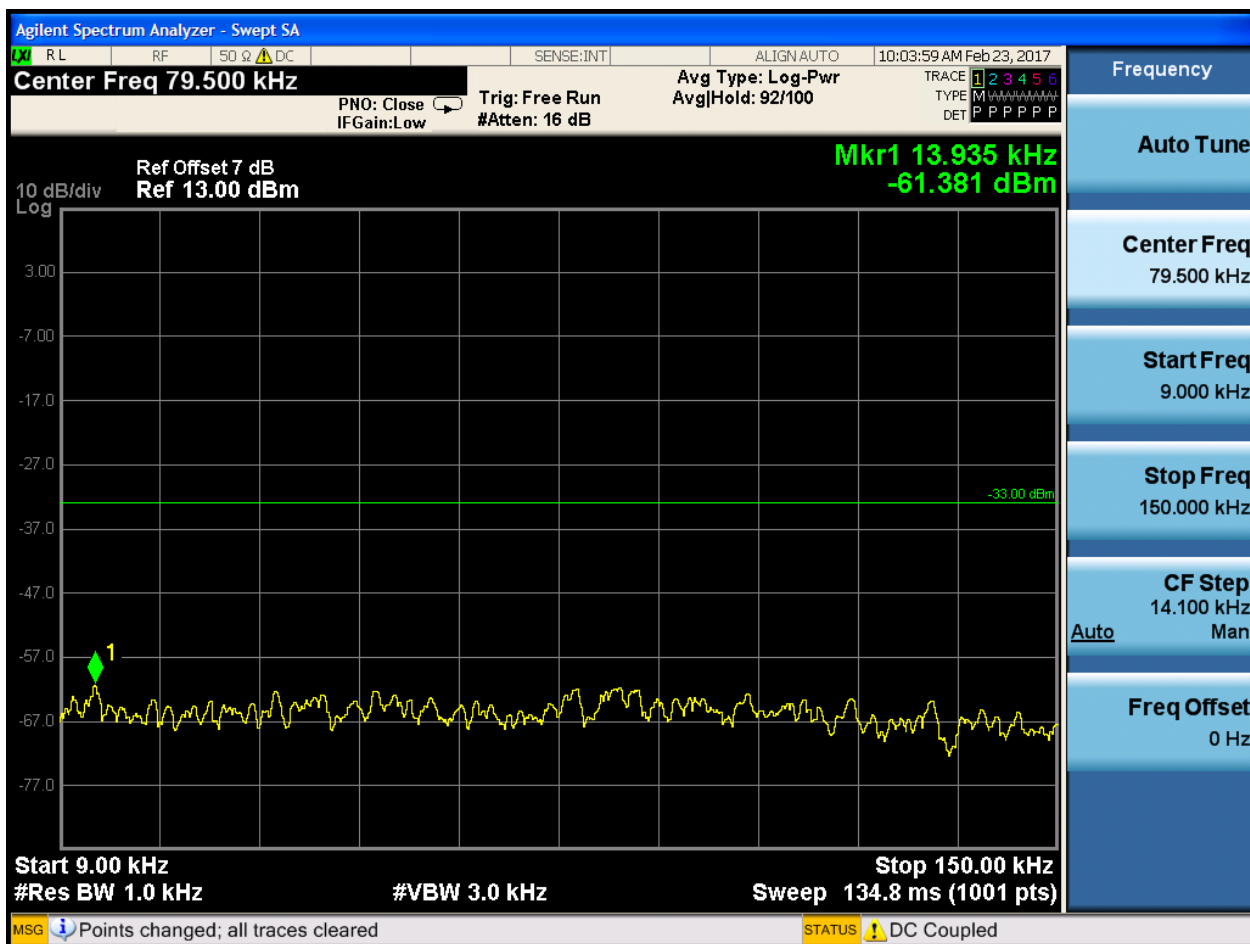


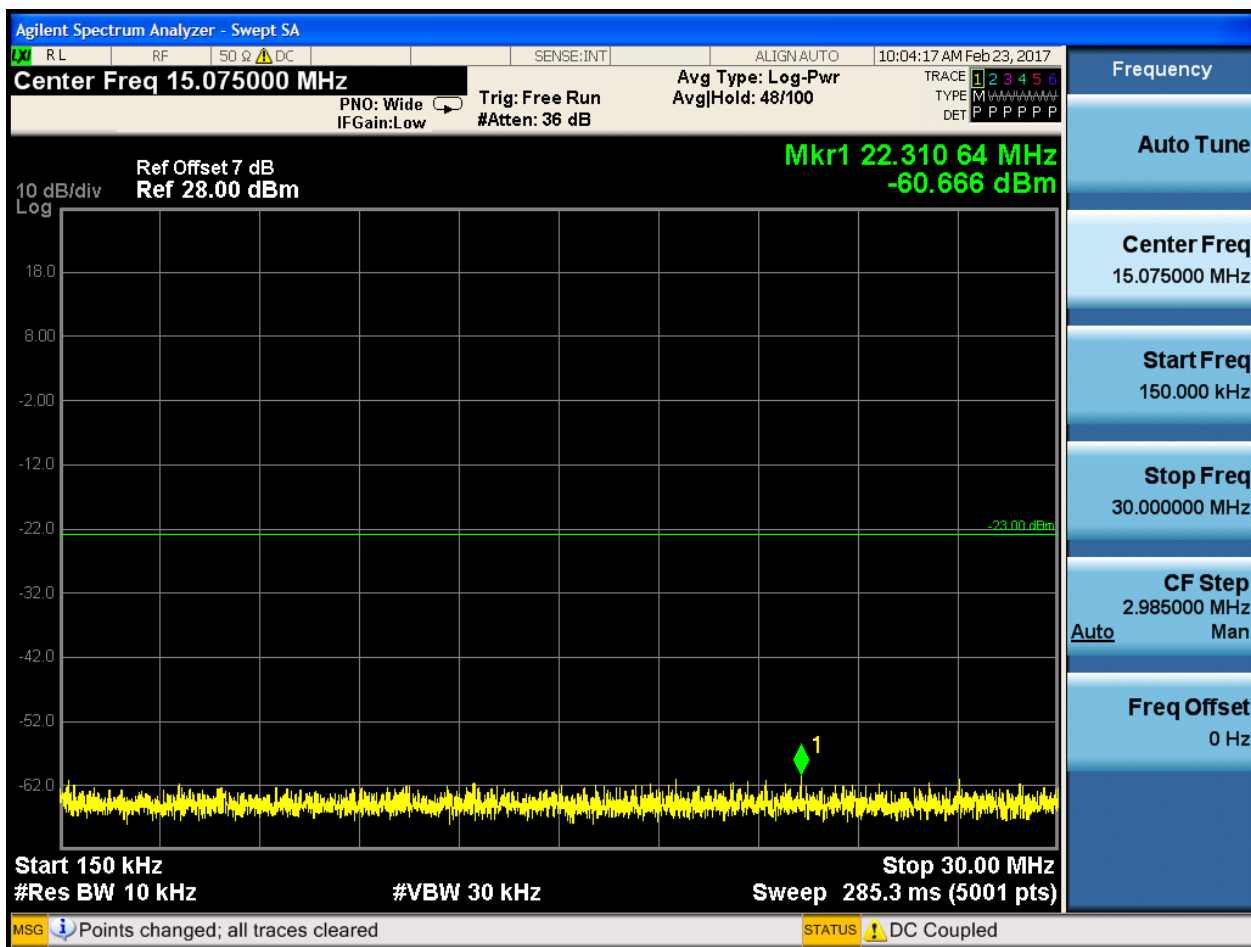


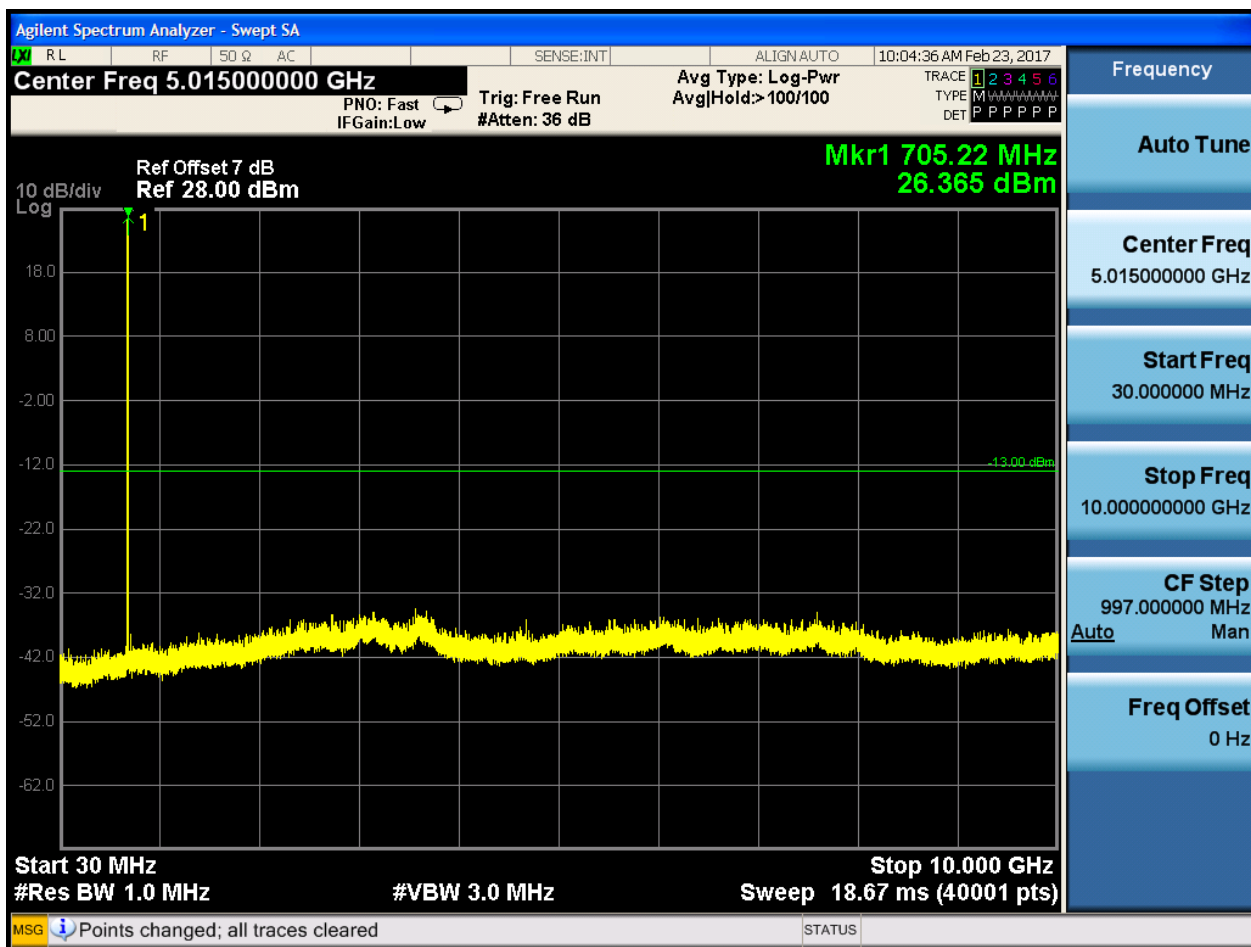




6.1.1.2.3.2.1 Test RB = RB1#0



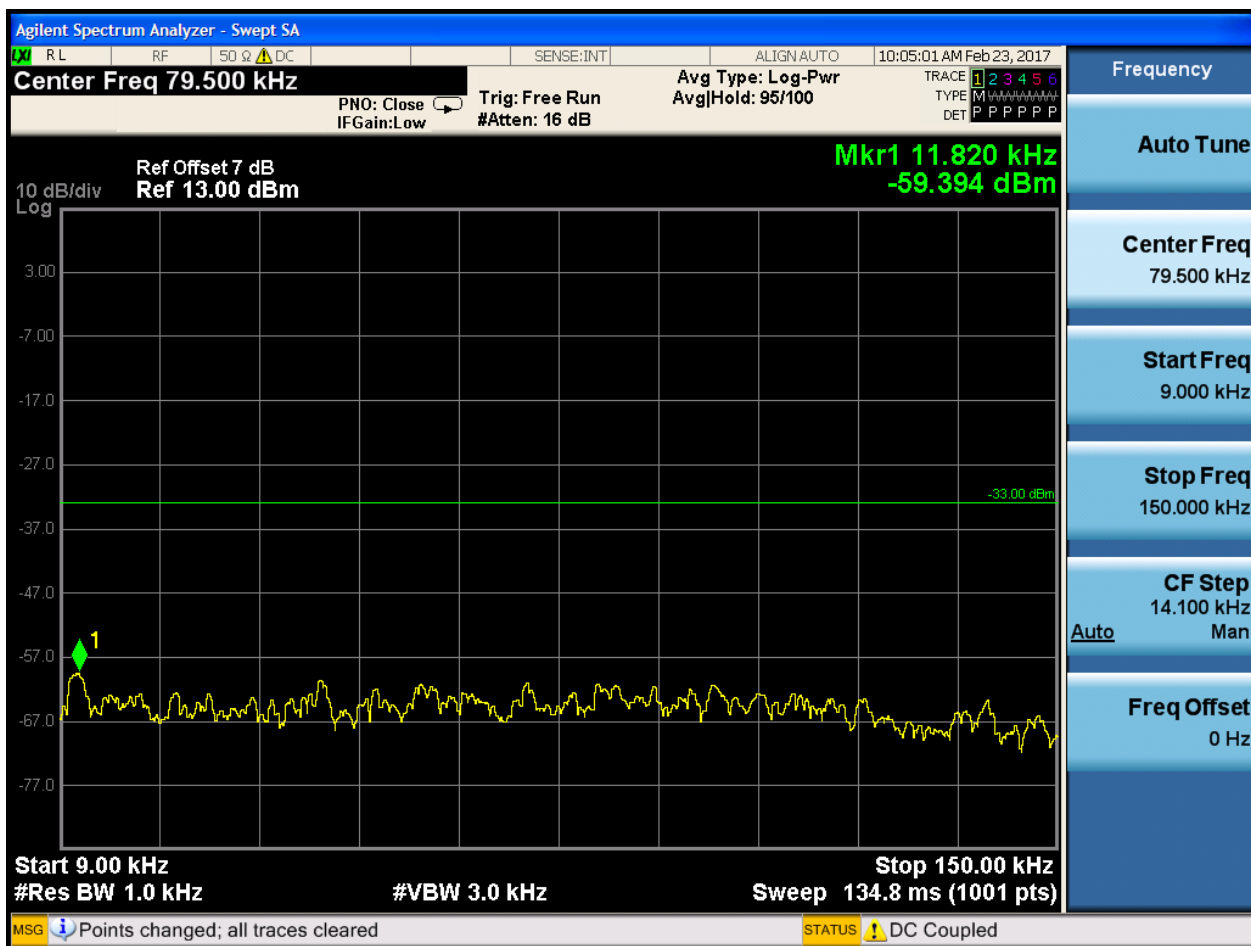


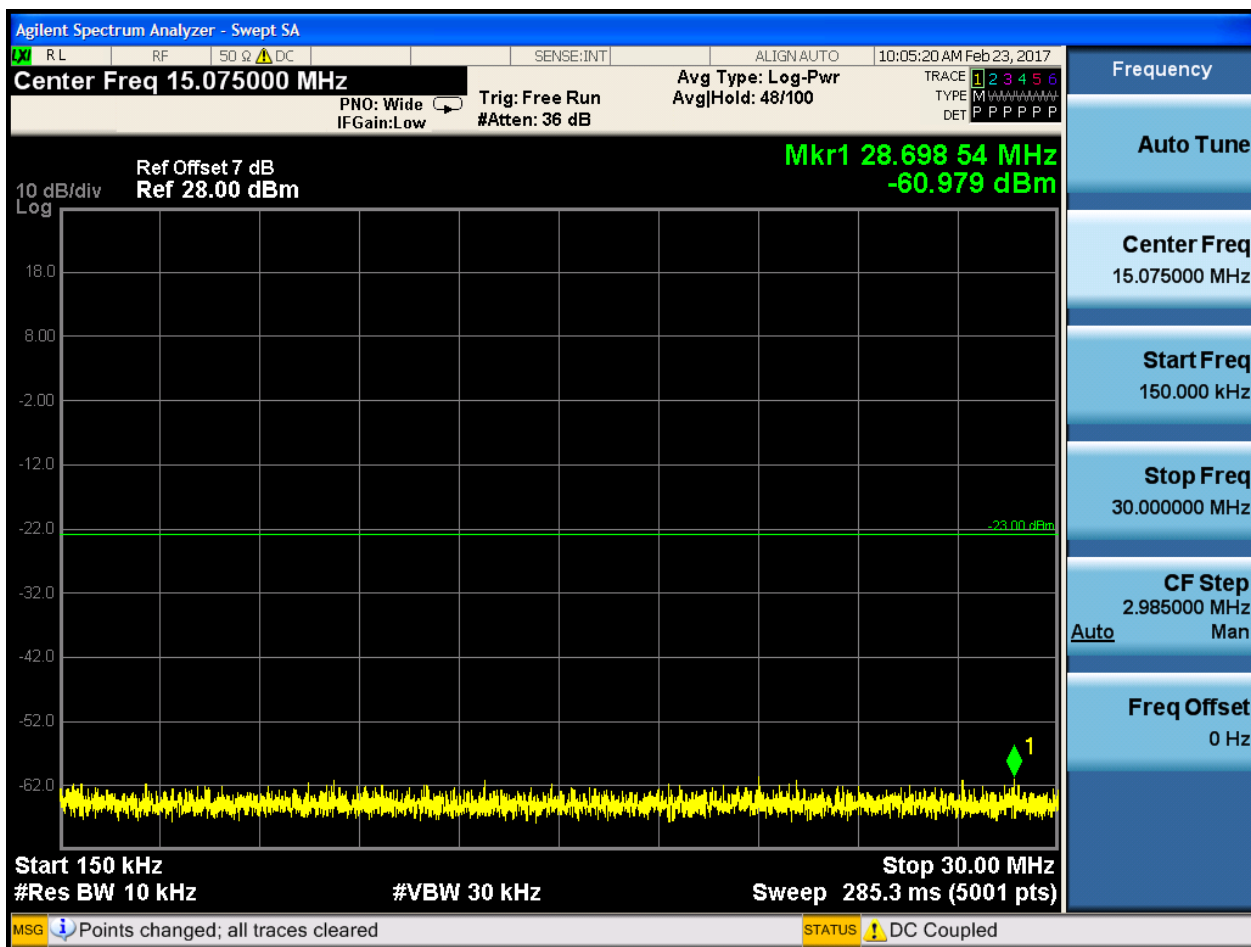


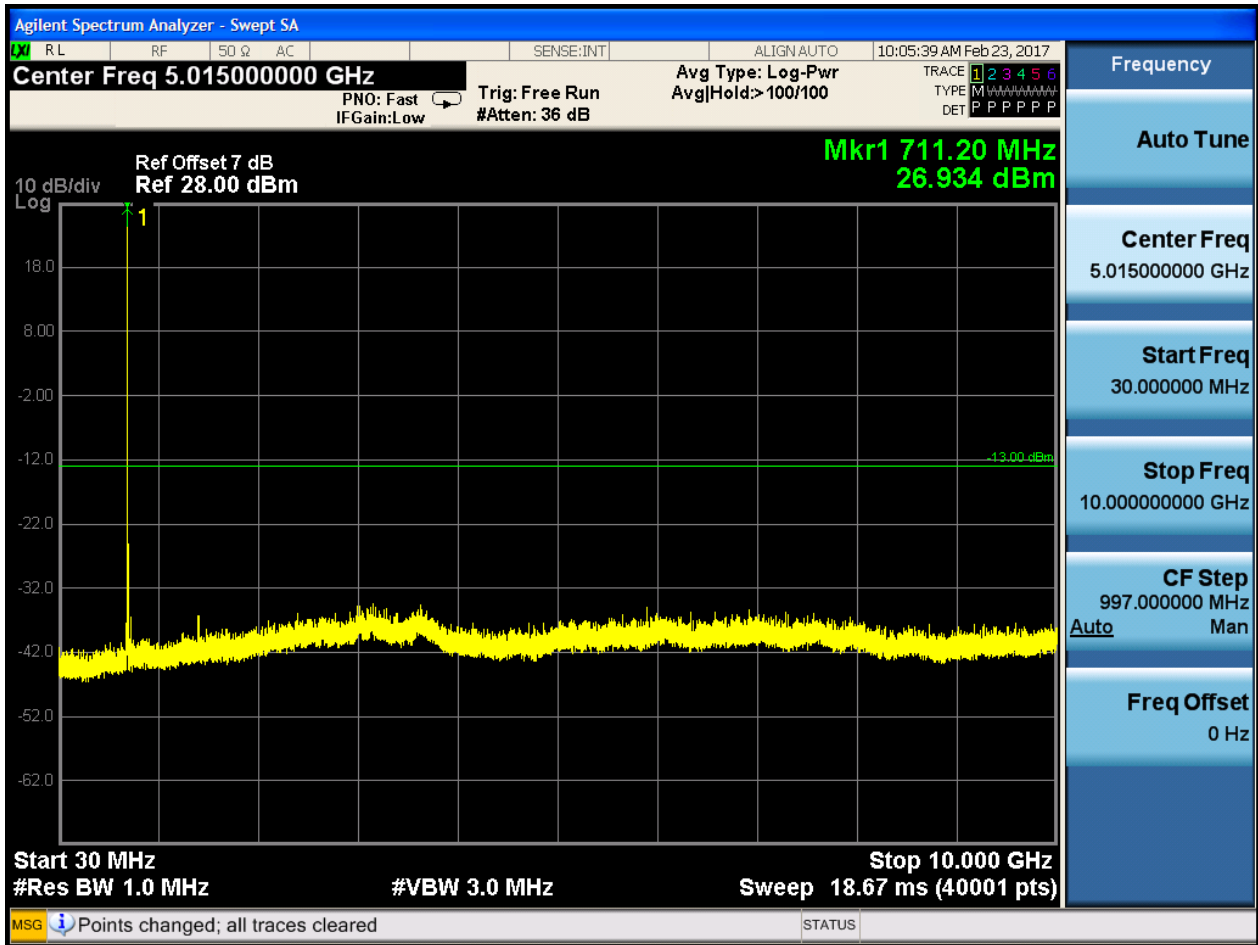


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0



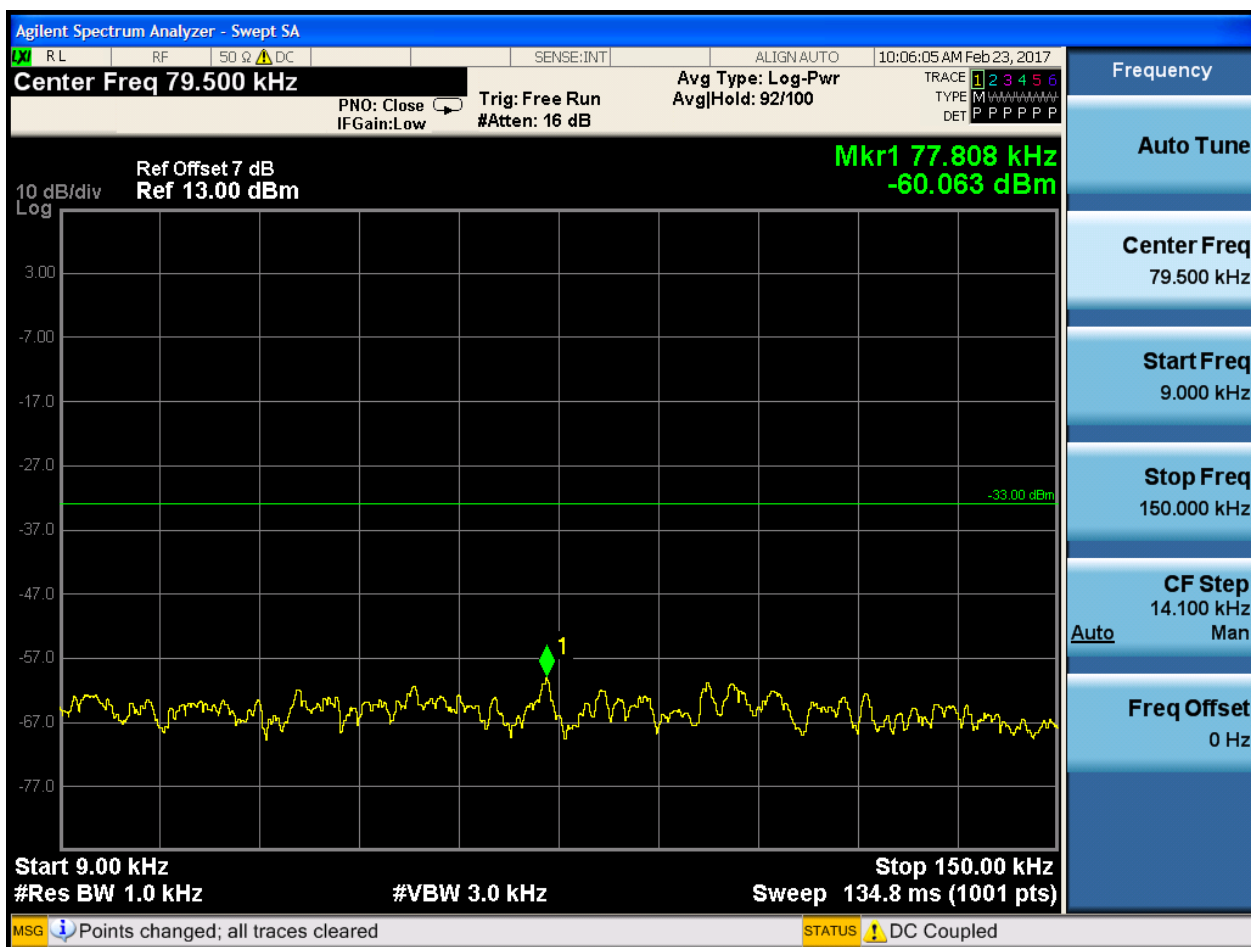


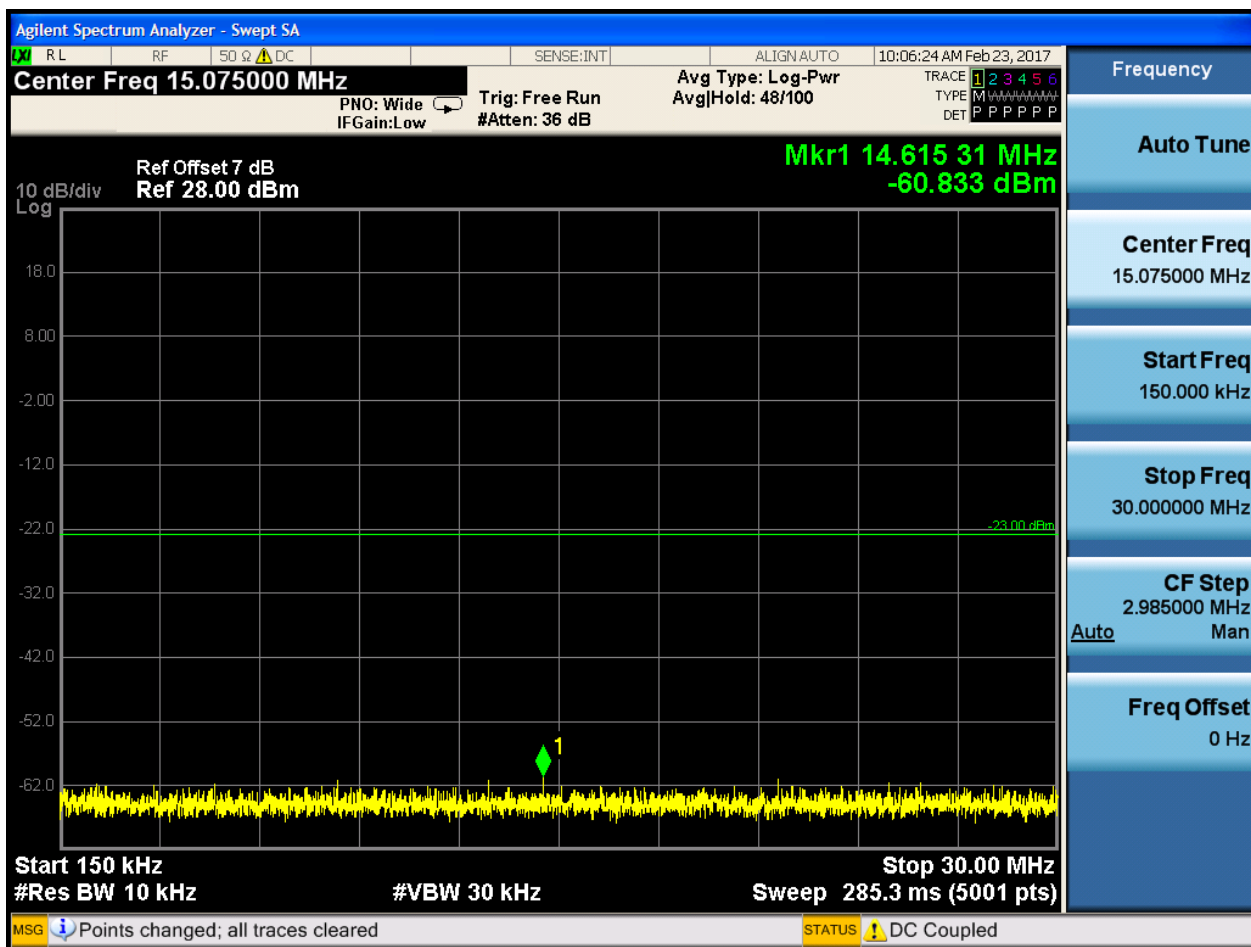


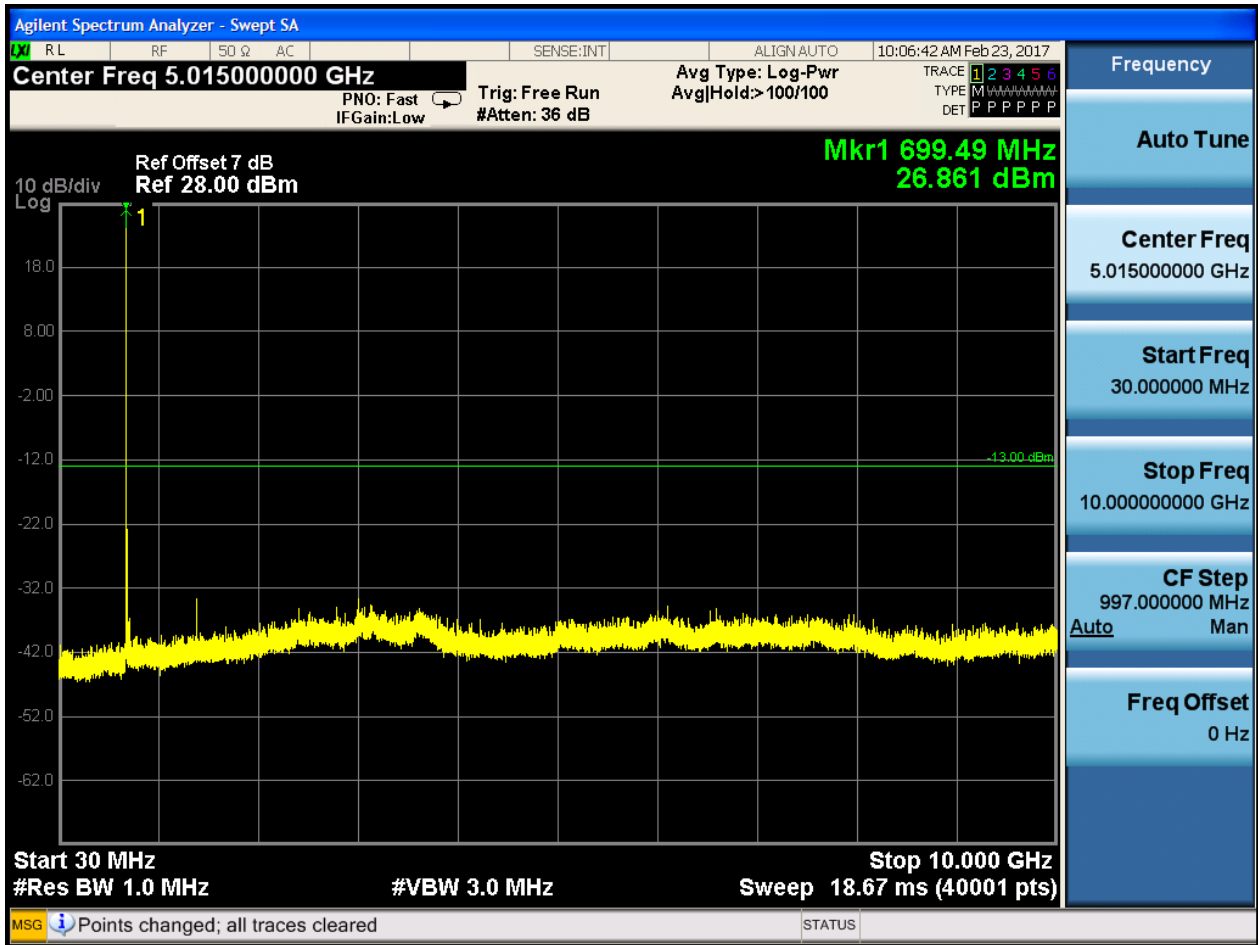
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

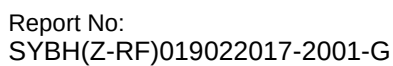


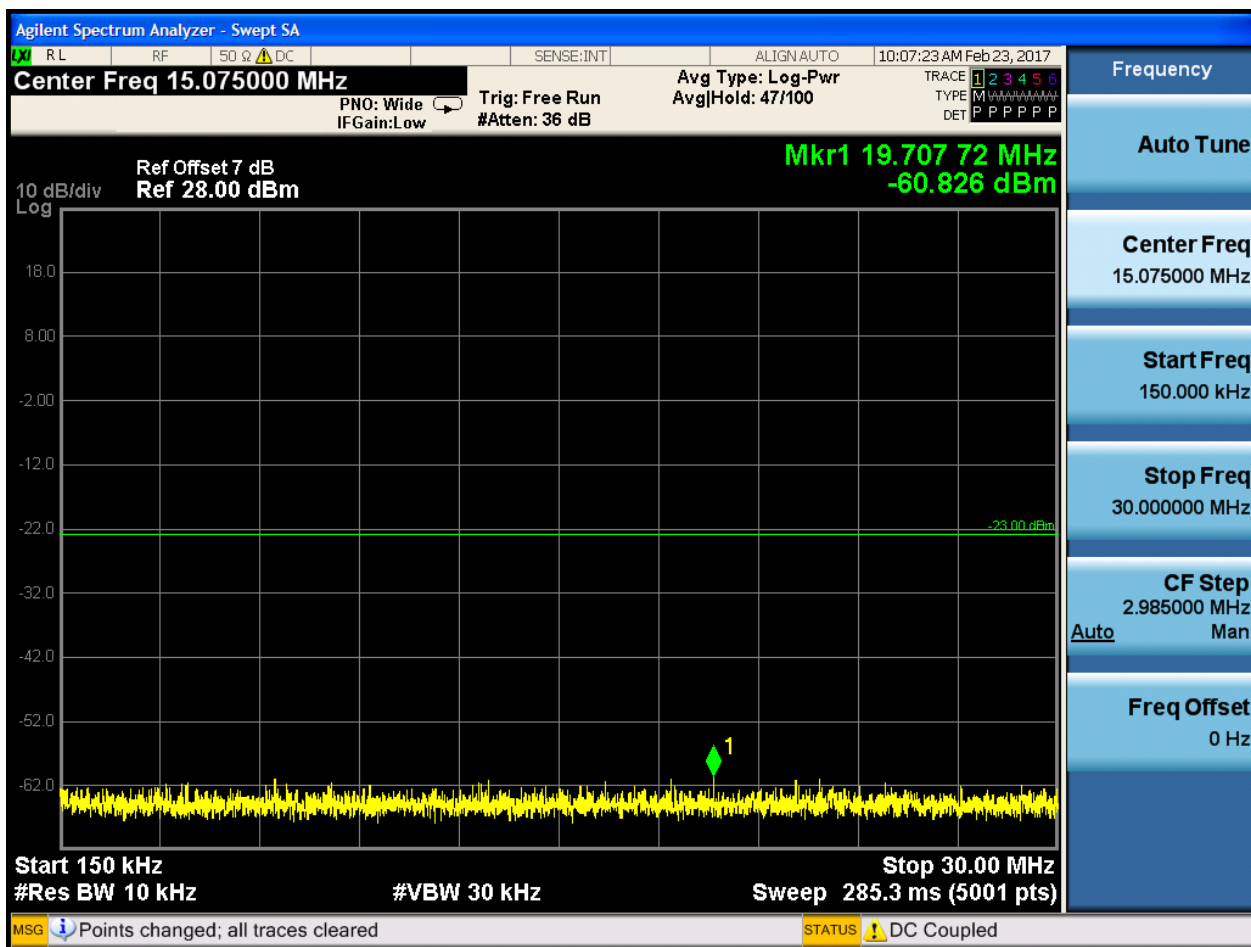


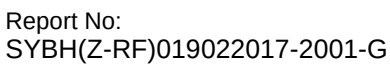




6.1.1.2.4.2.1 Test RB = RB1#0



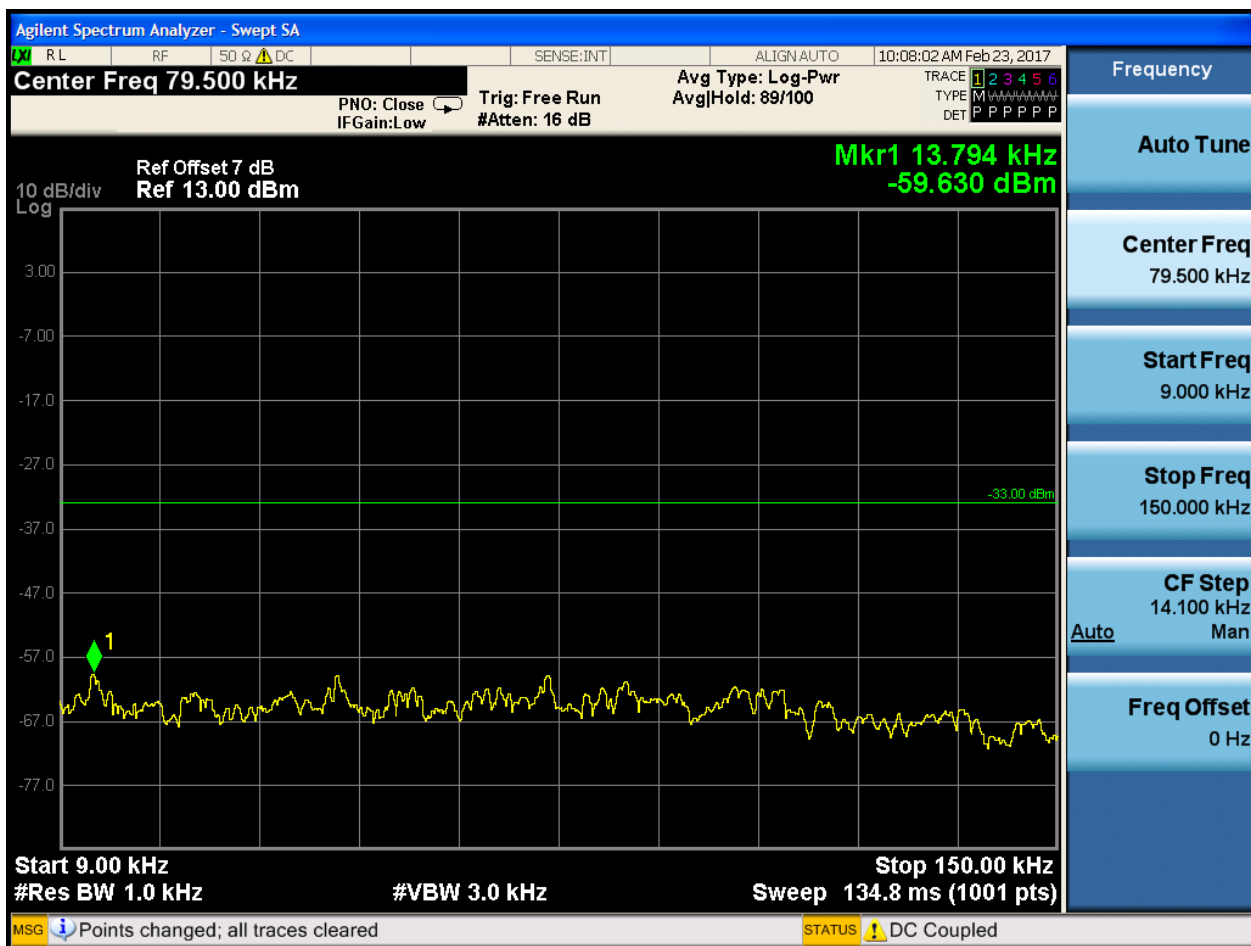


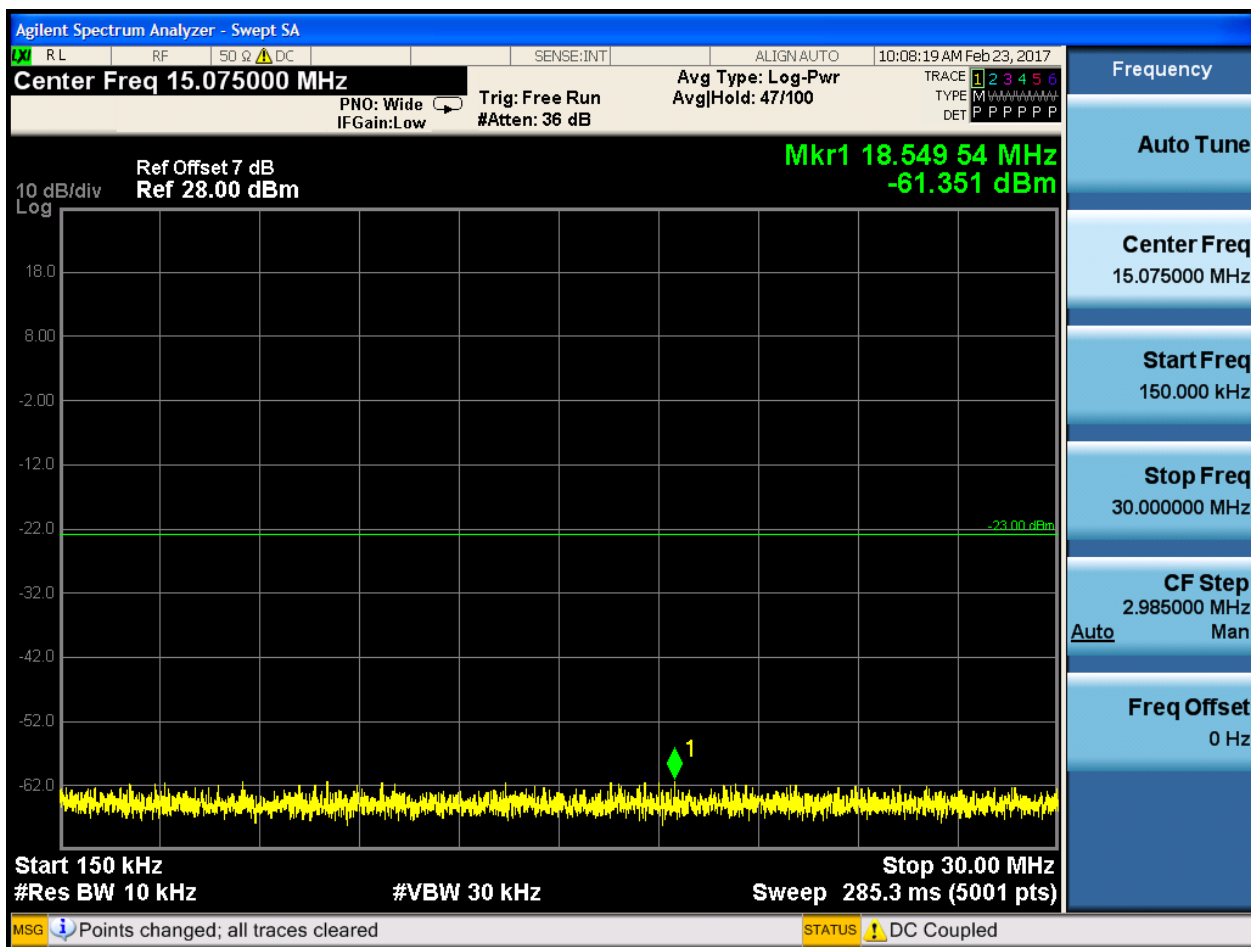


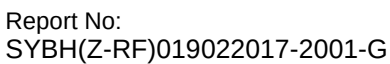


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







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

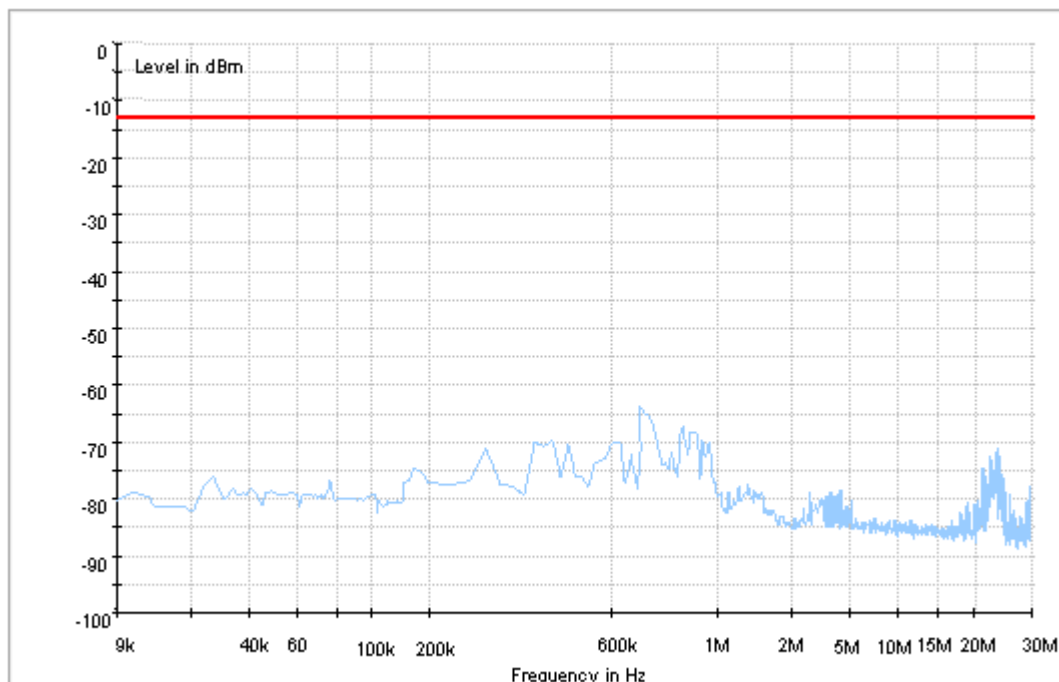
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

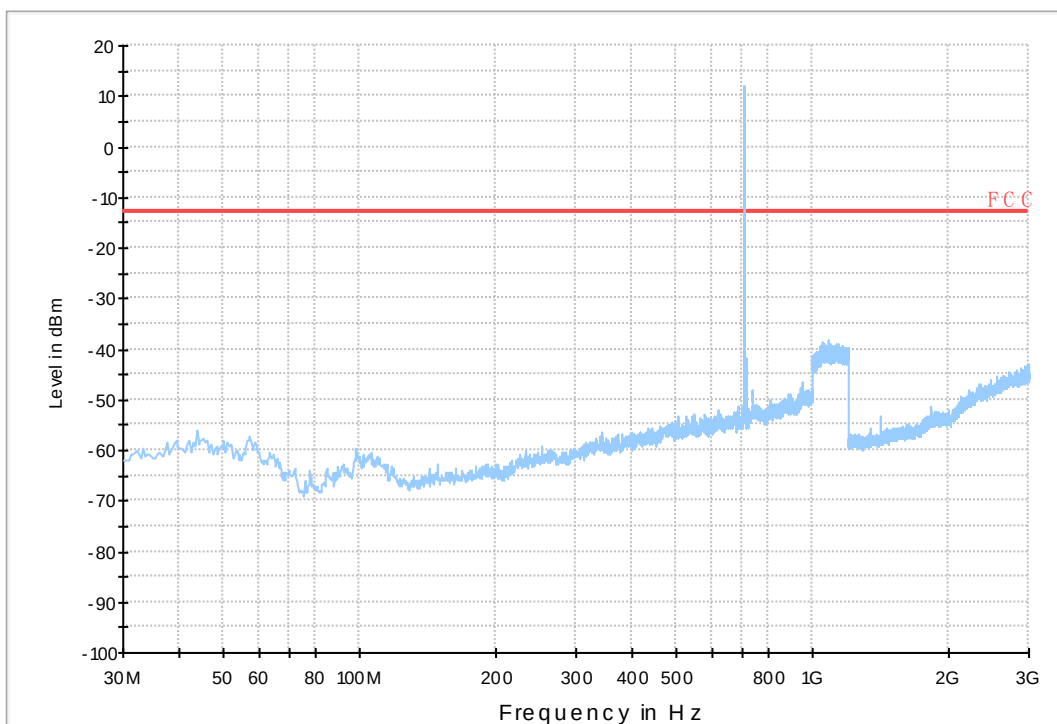
7.1 For LTE

7.1.1 Test Band = BAND12

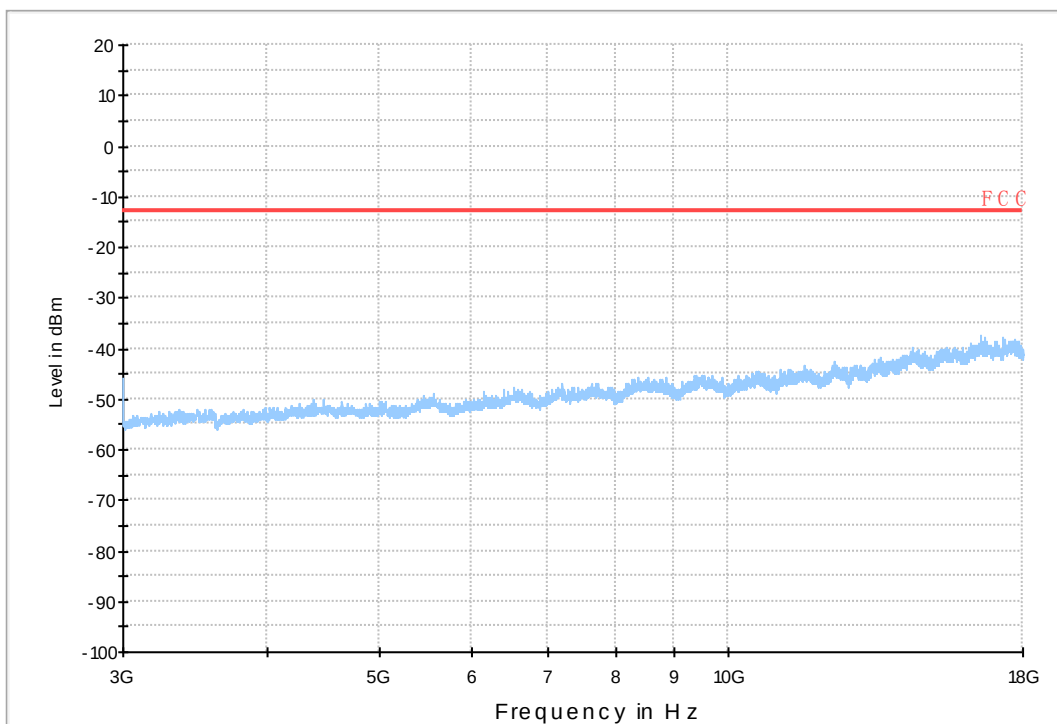
7.1.1.1 Test Bandwidth = 1.4



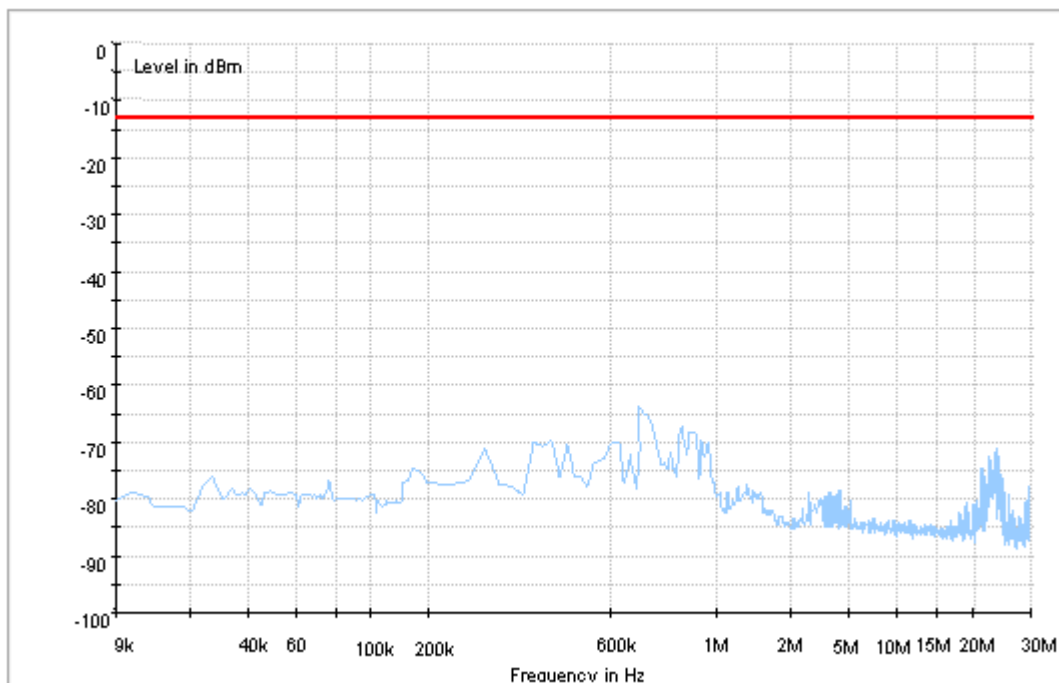
Copy of RSE-TX-DIRECTOR BELOW 1G_L



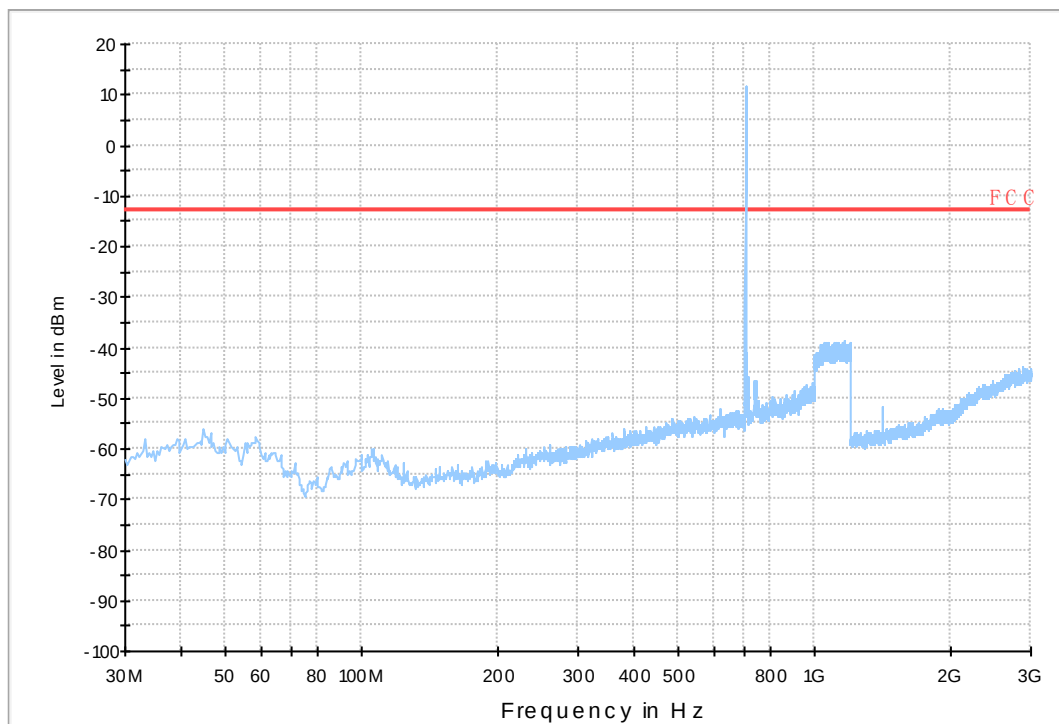
Copy of RSE-TX-DIRECTOR BELOW 1G_H



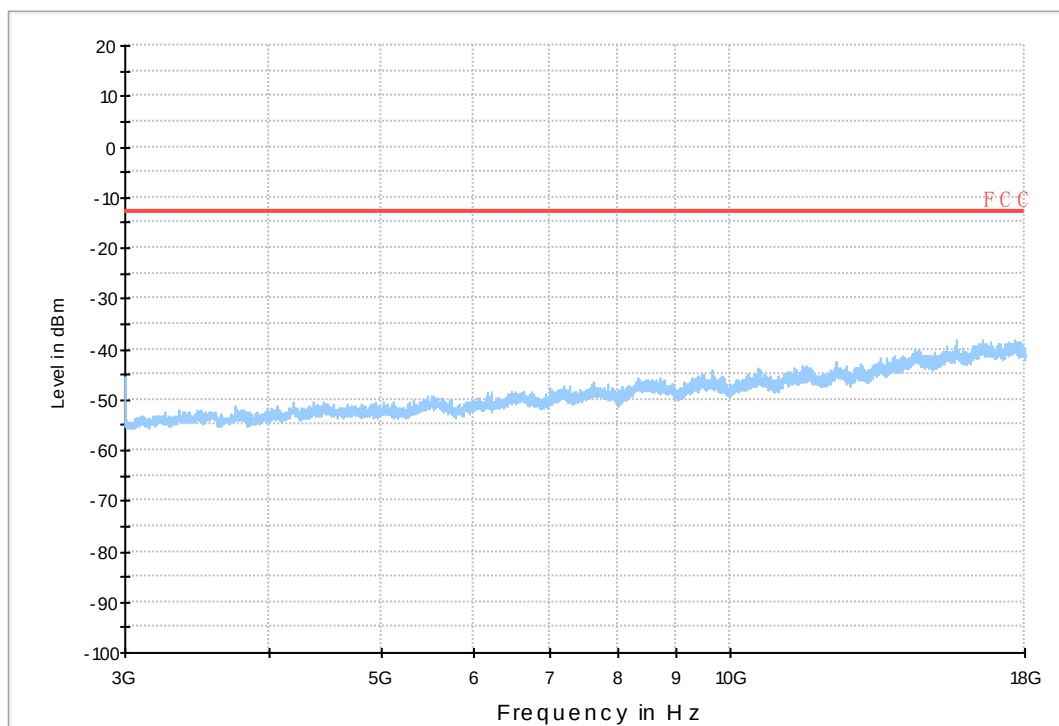
7.1.1.3 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_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
BAND12	LTE/TM1	1.4	LCH	TN	VL	0.76	0.00109	PASS
					VN	0.87	0.00124	PASS
					VH	0.43	0.00061	PASS
			MCH	TN	VL	-1.67	-0.00236	PASS
					VN	-1.86	-0.00263	PASS
					VH	-1.24	-0.00175	PASS
			HCH	TN	VL	-2.36	-0.0033	PASS
					VN	-2.85	-0.00398	PASS
					VH	-1.82	-0.00254	PASS
		3	LCH	TN	VL	-9.77	-0.01395	PASS
					VN	-11.52	-0.01645	PASS
					VH	-10.19	-0.01455	PASS
			MCH	TN	VL	-0.40	-0.00057	PASS
					VN	-0.13	-0.00018	PASS
					VH	-0.83	-0.00117	PASS
			HCH	TN	VL	-5.84	-0.00817	PASS
					VN	-5.88	-0.00823	PASS
					VH	-6.49	-0.00908	PASS
		5	LCH	TN	VL	0.99	0.00141	PASS
					VN	-0.59	-0.00084	PASS
					VH	0.01	0.00001	PASS
			MCH	TN	VL	-0.53	-0.00075	PASS
					VN	0.46	0.00065	PASS
					VH	-0.56	-0.00079	PASS
			HCH	TN	VL	-0.57	-0.0008	PASS
					VN	0.00	0	PASS
					VH	-1.59	-0.00223	PASS
		10	LCH	TN	VL	-1.06	-0.00151	PASS
					VN	-1.47	-0.00209	PASS
					VH	-1.37	-0.00195	PASS
			MCH	TN	VL	-2.55	-0.0036	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VN	-1.65	-0.00233	PASS
					VH	-1.46	-0.00206	PASS
					VL	0.99	0.00139	PASS
					VN	1.07	0.0015	PASS
					VH	2.13	0.003	PASS
					VL	0.51	0.00073	PASS
	LTE/TM2	1.4	LCH	TN	VN	1.43	0.00204	PASS
					VH	1.02	0.00146	PASS
					VL	-0.90	-0.00127	PASS
			MCH	TN	VN	-2.16	-0.00305	PASS
					VH	-2.50	-0.00353	PASS
					VL	-0.79	-0.0011	PASS
			HCH	TN	VN	-0.26	-0.00036	PASS
					VH	-0.90	-0.00126	PASS
					VL	-10.01	-0.01429	PASS
		3	LCH	TN	VN	-10.01	-0.01429	PASS
					VH	-11.73	-0.01675	PASS
					VL	-1.10	-0.00155	PASS
			MCH	TN	VN	0.30	0.00042	PASS
					VH	-1.44	-0.00204	PASS
					VL	-4.58	-0.00641	PASS
			HCH	TN	VN	-6.35	-0.00889	PASS
					VH	-4.43	-0.0062	PASS
					VL	0.19	0.00027	PASS
		5	LCH	TN	VN	-0.57	-0.00081	PASS
					VH	-0.54	-0.00077	PASS
					VL	-0.72	-0.00102	PASS
			MCH	TN	VN	-1.14	-0.00161	PASS
					VH	-0.67	-0.00095	PASS
					VL	-0.84	-0.00118	PASS
			HCH	TN	VN	-1.29	-0.00181	PASS
					VH	-0.86	-0.00121	PASS
					VL	0.57	0.00081	PASS
		10	LCH	TN	VN	0.84	0.00119	PASS
					VH	-0.80	-0.00114	PASS
					VL	-0.74	-0.00105	PASS
			MCH	TN	VN	0.24	0.00034	PASS
					VH	0.83	0.00117	PASS
					VL	-1.85	-0.0026	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-1.75	-0.00246	PASS
					VH	-1.72	-0.00242	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
BAND12	LTE/TM1	1.4	LCH	VN	-30	0.72	0.00103	PASS
					-20	1.12	0.0016	PASS
					-10	0.76	0.00109	PASS
					0	1.06	0.00151	PASS
					10	-0.24	-0.00034	PASS
					20	0.01	0.00001	PASS
					30	1.27	0.00182	PASS
					40	1.29	0.00184	PASS
					50	1.09	0.00156	PASS
			MCH	VN	-30	-1.49	-0.00211	PASS
					-20	-1.33	-0.00188	PASS
					-10	-2.07	-0.00293	PASS
					0	-1.22	-0.00172	PASS
					10	-1.59	-0.00225	PASS
					20	-1.19	-0.00168	PASS
					30	-1.54	-0.00218	PASS
					40	-2.36	-0.00334	PASS
					50	-1.07	-0.00151	PASS
			HCH	VN	-30	-1.62	-0.00226	PASS
					-20	-0.50	-0.0007	PASS
					-10	-1.22	-0.00171	PASS
					0	-2.12	-0.00296	PASS
					10	-0.82	-0.00115	PASS
					20	0.07	0.0001	PASS
					30	-0.77	-0.00108	PASS
					40	-1.03	-0.00144	PASS
					50	-0.43	-0.0006	PASS
		3	LCH	VN	-30	-10.39	-0.01483	PASS
					-20	-13.30	-0.01899	PASS
					-10	-12.67	-0.01809	PASS
					0	-13.43	-0.01917	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-11.87	-0.01695	PASS
					20	-12.13	-0.01732	PASS
					30	-11.42	-0.0163	PASS
					40	-12.86	-0.01836	PASS
					50	-12.00	-0.01713	PASS
			MCH	VN	-30	0.56	0.00079	PASS
					-20	0.53	0.00075	PASS
					-10	-0.43	-0.00061	PASS
					0	0.89	0.00126	PASS
					10	0.16	0.00023	PASS
					20	-1.49	-0.00211	PASS
					30	0.69	0.00098	PASS
					40	0.07	0.0001	PASS
					50	-0.87	-0.00123	PASS
			HCH	VN	-30	-3.81	-0.00533	PASS
					-20	-5.02	-0.00703	PASS
					-10	-4.91	-0.00687	PASS
					0	-4.11	-0.00575	PASS
					10	-4.31	-0.00603	PASS
					20	-5.39	-0.00754	PASS
					30	-2.96	-0.00414	PASS
					40	-3.49	-0.00488	PASS
					50	-3.98	-0.00557	PASS
		5	LCH	VN	-30	0.20	0.00029	PASS
					-20	-0.84	-0.0012	PASS
					-10	0.04	0.00006	PASS
					0	0.66	0.00094	PASS
					10	-1.33	-0.0019	PASS
					20	0.59	0.00084	PASS
					30	-0.54	-0.00077	PASS
					40	0.53	0.00076	PASS
					50	-0.03	-0.00004	PASS
			MCH	VN	-30	-0.56	-0.00079	PASS
					-20	-0.63	-0.00089	PASS
					-10	-0.19	-0.00027	PASS
					0	-0.27	-0.00038	PASS
					10	-0.60	-0.00085	PASS
					20	-0.64	-0.0009	PASS
					30	-0.97	-0.00137	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	0.30	0.00042	PASS
					50	-0.67	-0.00095	PASS
			HCH	VN	-30	-0.40	-0.00056	PASS
					-20	-1.20	-0.00168	PASS
					-10	-0.69	-0.00097	PASS
					0	-0.93	-0.0013	PASS
					10	-1.14	-0.0016	PASS
					20	0.41	0.00057	PASS
					30	-1.43	-0.002	PASS
					40	-1.16	-0.00163	PASS
					50	-1.06	-0.00149	PASS
		10	LCH	VN	-30	-1.86	-0.00264	PASS
					-20	-2.49	-0.00354	PASS
					-10	-0.86	-0.00122	PASS
					0	-2.25	-0.0032	PASS
					10	-2.15	-0.00305	PASS
					20	-1.06	-0.00151	PASS
					30	-1.06	-0.00151	PASS
					40	-1.47	-0.00209	PASS
					50	-2.33	-0.00331	PASS
			MCH	VN	-30	-3.00	-0.00424	PASS
					-20	-2.15	-0.00304	PASS
					-10	-2.88	-0.00407	PASS
					0	-1.72	-0.00243	PASS
					10	-1.82	-0.00257	PASS
					20	-1.36	-0.00192	PASS
					30	-1.76	-0.00249	PASS
					40	-2.59	-0.00366	PASS
					50	-1.37	-0.00194	PASS
			HCH	VN	-30	1.12	0.00158	PASS
					-20	1.27	0.00179	PASS
					-10	2.43	0.00342	PASS
					0	1.93	0.00271	PASS
					10	1.30	0.00183	PASS
					20	1.03	0.00145	PASS
					30	1.26	0.00177	PASS
					40	0.73	0.00103	PASS
					50	1.65	0.00232	PASS
	LTE/TM2	1.4	LCH	VN	-30	0.01	0.00001	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	0.23	0.00033	PASS
					-10	1.14	0.00163	PASS
					0	1.02	0.00146	PASS
					10	0.59	0.00084	PASS
					20	-0.70	-0.001	PASS
					30	-0.29	-0.00041	PASS
					40	-0.24	-0.00034	PASS
					50	-0.40	-0.00057	PASS
			MCH	VN	-30	-0.59	-0.00083	PASS
					-20	-0.06	-0.00008	PASS
					-10	-2.00	-0.00283	PASS
					0	-0.57	-0.00081	PASS
					10	-2.52	-0.00356	PASS
					20	-0.66	-0.00093	PASS
					30	-1.09	-0.00154	PASS
					40	-0.07	-0.0001	PASS
					50	-1.32	-0.00187	PASS
			HCH	VN	-30	0.14	0.0002	PASS
					-20	0.16	0.00022	PASS
					-10	-0.23	-0.00032	PASS
					0	0.23	0.00032	PASS
					10	0.20	0.00028	PASS
					20	0.53	0.00074	PASS
					30	-0.57	-0.0008	PASS
					40	-1.06	-0.00148	PASS
					50	-0.13	-0.00018	PASS
		3	LCH	VN	-30	-12.37	-0.01766	PASS
					-20	-10.99	-0.01569	PASS
					-10	-13.30	-0.01899	PASS
					0	-12.07	-0.01723	PASS
					10	-11.94	-0.01704	PASS
					20	-12.47	-0.0178	PASS
					30	-12.53	-0.01789	PASS
					40	-11.76	-0.01679	PASS
					50	-13.15	-0.01877	PASS
			MCH	VN	-30	-1.10	-0.00155	PASS
					-20	-0.44	-0.00062	PASS
					-10	-0.13	-0.00018	PASS
					0	0.79	0.00112	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-0.60	-0.00085	PASS
					20	-1.06	-0.0015	PASS
					30	-0.60	-0.00085	PASS
					40	-0.90	-0.00127	PASS
					50	-0.83	-0.00117	PASS
			HCH	VN	-30	-3.63	-0.00508	PASS
					-20	-2.42	-0.00339	PASS
					-10	-4.08	-0.00571	PASS
					0	-3.65	-0.00511	PASS
					10	-4.05	-0.00567	PASS
					20	-4.02	-0.00563	PASS
					30	-3.15	-0.00441	PASS
					40	-3.25	-0.00455	PASS
					50	-4.35	-0.00609	PASS
		5	LCH	VN	-30	-1.30	-0.00185	PASS
					-20	0.10	0.00014	PASS
					-10	-0.80	-0.00114	PASS
					0	-0.17	-0.00024	PASS
					10	-0.56	-0.0008	PASS
					20	-0.23	-0.00033	PASS
					30	-0.07	-0.0001	PASS
					40	0.27	0.00038	PASS
					50	0.87	0.00124	PASS
			MCH	VN	-30	-1.02	-0.00144	PASS
					-20	-0.54	-0.00076	PASS
					-10	-0.53	-0.00075	PASS
					0	-0.41	-0.00058	PASS
					10	-0.23	-0.00033	PASS
					20	-0.93	-0.00131	PASS
					30	0.04	0.00006	PASS
					40	-0.59	-0.00083	PASS
					50	0.20	0.00028	PASS
			HCH	VN	-30	-0.56	-0.00078	PASS
					-20	0.11	0.00015	PASS
					-10	-0.99	-0.00139	PASS
					0	-0.69	-0.00097	PASS
					10	-1.49	-0.00209	PASS
					20	-0.17	-0.00024	PASS
					30	-0.89	-0.00125	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-0.24	-0.00034	PASS
					50	-1.13	-0.00158	PASS
		10	LCH	VN	-30	0.57	0.00081	PASS
					-20	0.09	0.00013	PASS
					-10	-1.17	-0.00166	PASS
					0	1.32	0.00188	PASS
					10	-0.26	-0.00037	PASS
					20	0.27	0.00038	PASS
					30	-0.51	-0.00072	PASS
					40	1.03	0.00146	PASS
					50	1.85	0.00263	PASS
			MCH	VN	-30	-0.57	-0.00081	PASS
					-20	-0.62	-0.00088	PASS
					-10	0.23	0.00033	PASS
					0	-0.93	-0.00131	PASS
					10	-0.60	-0.00085	PASS
					20	0.60	0.00085	PASS
					30	-0.79	-0.00112	PASS
					40	-0.47	-0.00066	PASS
					50	-0.46	-0.00065	PASS
			HCH	VN	-30	-0.19	-0.00027	PASS
					-20	-1.17	-0.00165	PASS
					-10	-1.04	-0.00146	PASS
					0	-0.39	-0.00055	PASS
					10	0.19	0.00027	PASS
					20	-1.22	-0.00172	PASS
					30	-1.72	-0.00242	PASS
					40	-1.49	-0.0021	PASS
					50	-1.24	-0.00174	PASS

END