



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 05:07:38 PM Jan 12, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 13/100
#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 823.990 MHz
-32.160 dBm

10 dB/div
Log

-13.00 dBm

Center 824.000 MHz
#Res BW 51 kHz

#VBW 150 kHz*

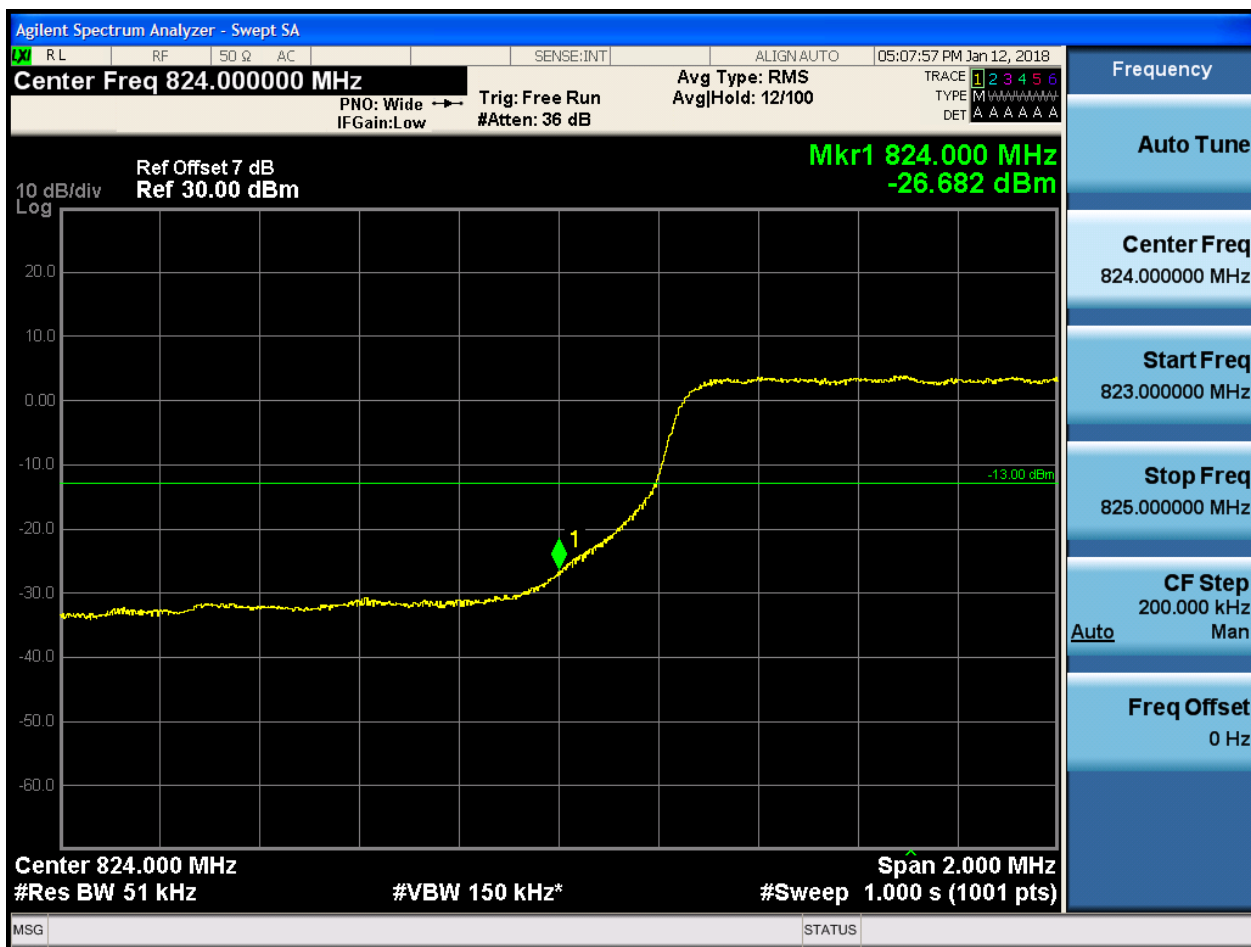
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency
Auto Tune
Center Freq 824.000000 MHz
Start Freq 823.000000 MHz
Stop Freq 825.000000 MHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz



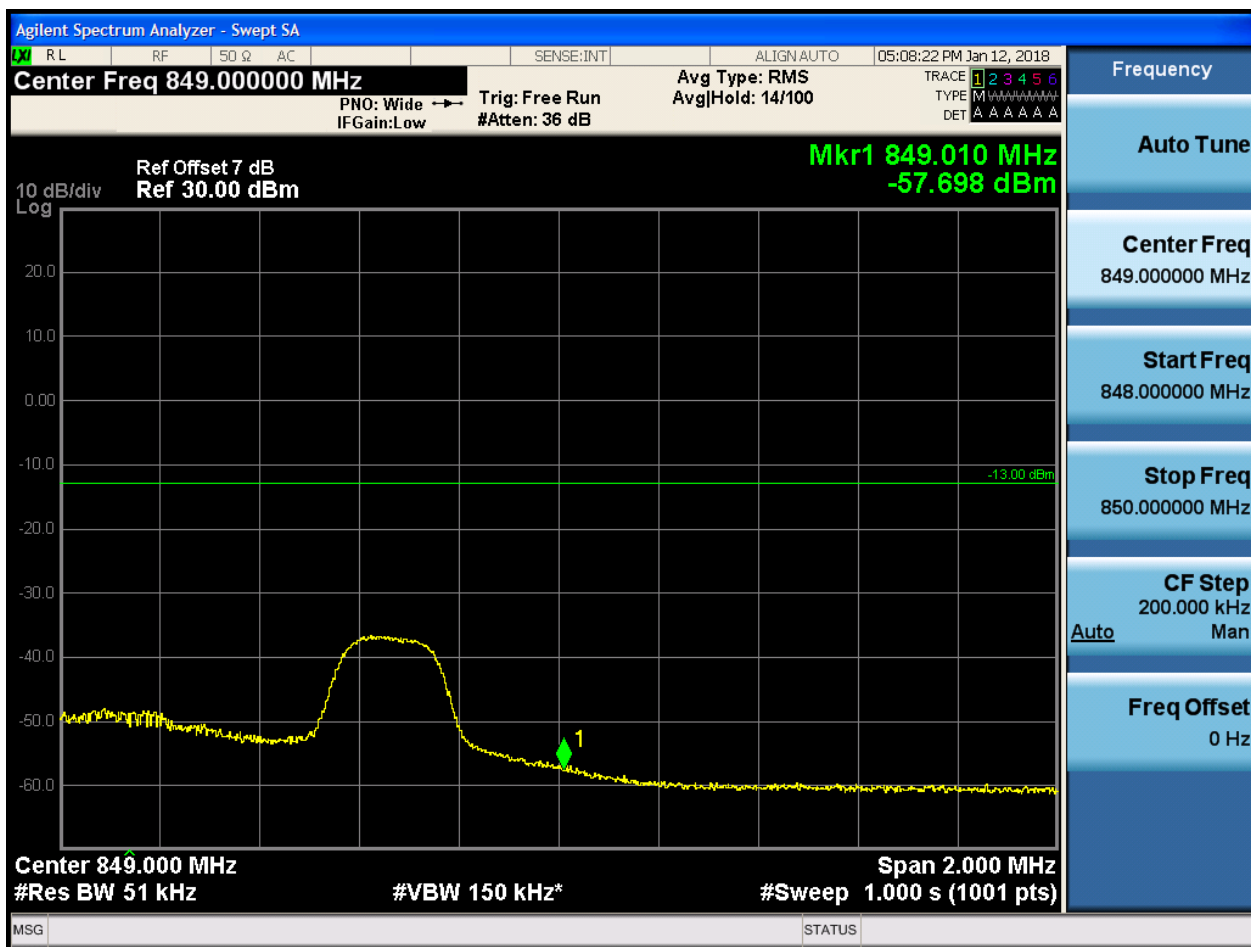
5.1.1.2.3.1.4 Test RB = RB25#0





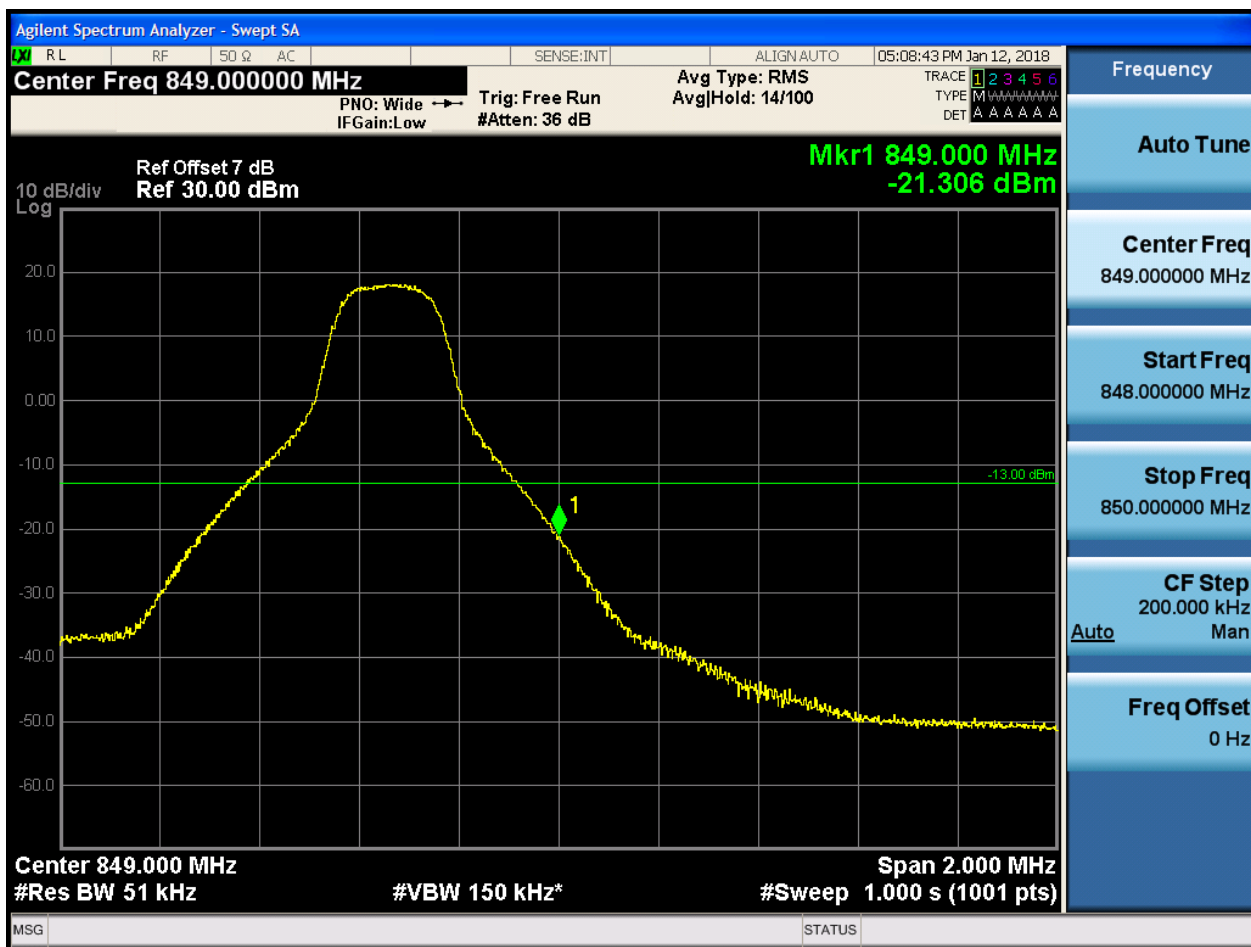
5.1.1.2.3.2 Test Channel = HCH

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





5.1.1.2.3.2.4 Test RB = RB25#0

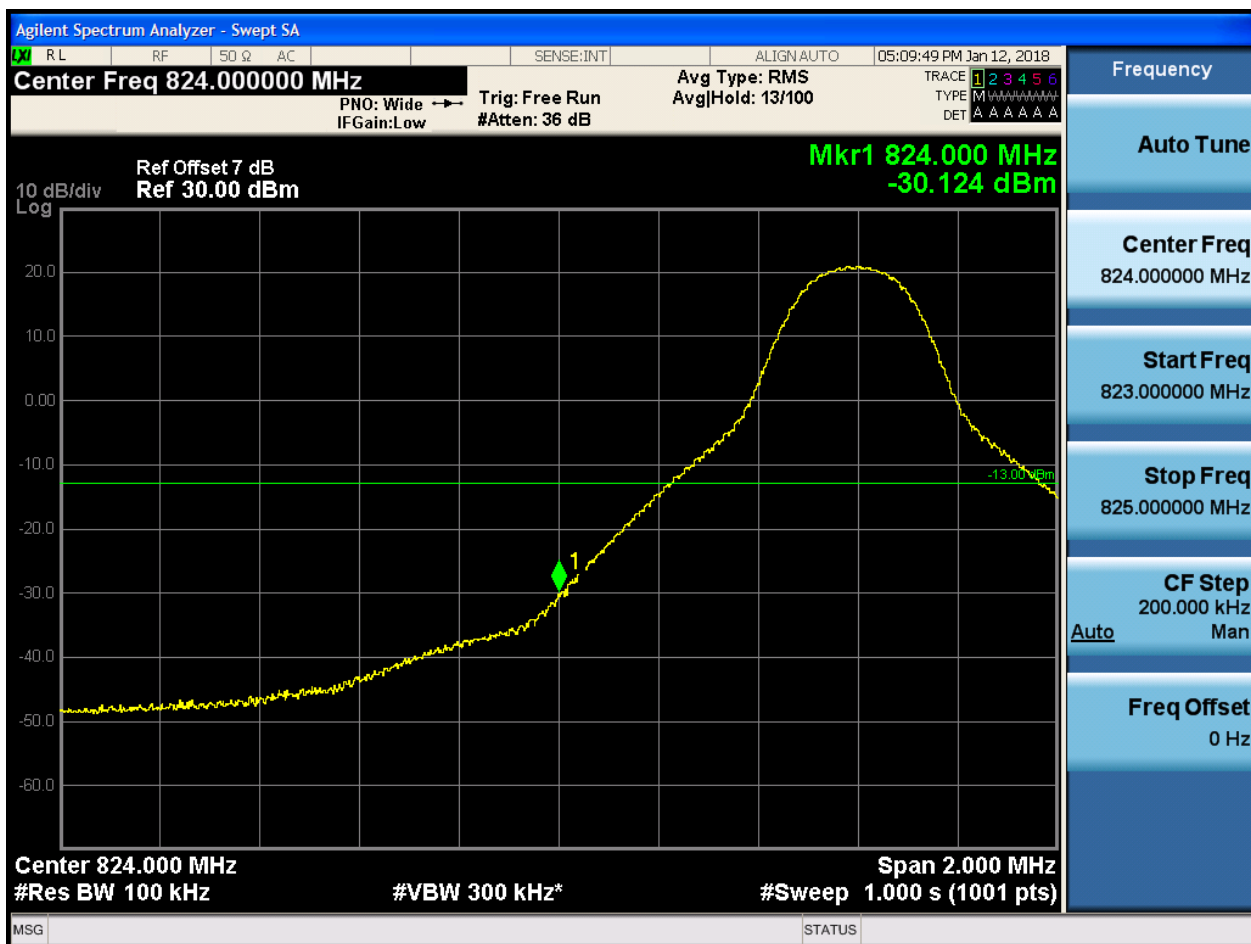




5.1.1.2.4 Test Bandwidth = 10

5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0





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Center Freq 824.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Mkr1 823.990 MHz
-49.448 dBm

-13.00 dBm

MSG STATUS

Frequency

Auto Tune

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 05:10:28 PM Jan 12, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 13/100
#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 823.940 MHz
-32.962 dBm

10 dB/div
Log

-13.00 dBm

1

Center 824.000 MHz
#Res BW 100 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

#VBW 300 kHz*

Frequency

Auto Tune

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Mkr1 824.000 MHz
-30.400 dBm

1

-13.00 dBm

MSG STATUS

Frequency

Auto Tune

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

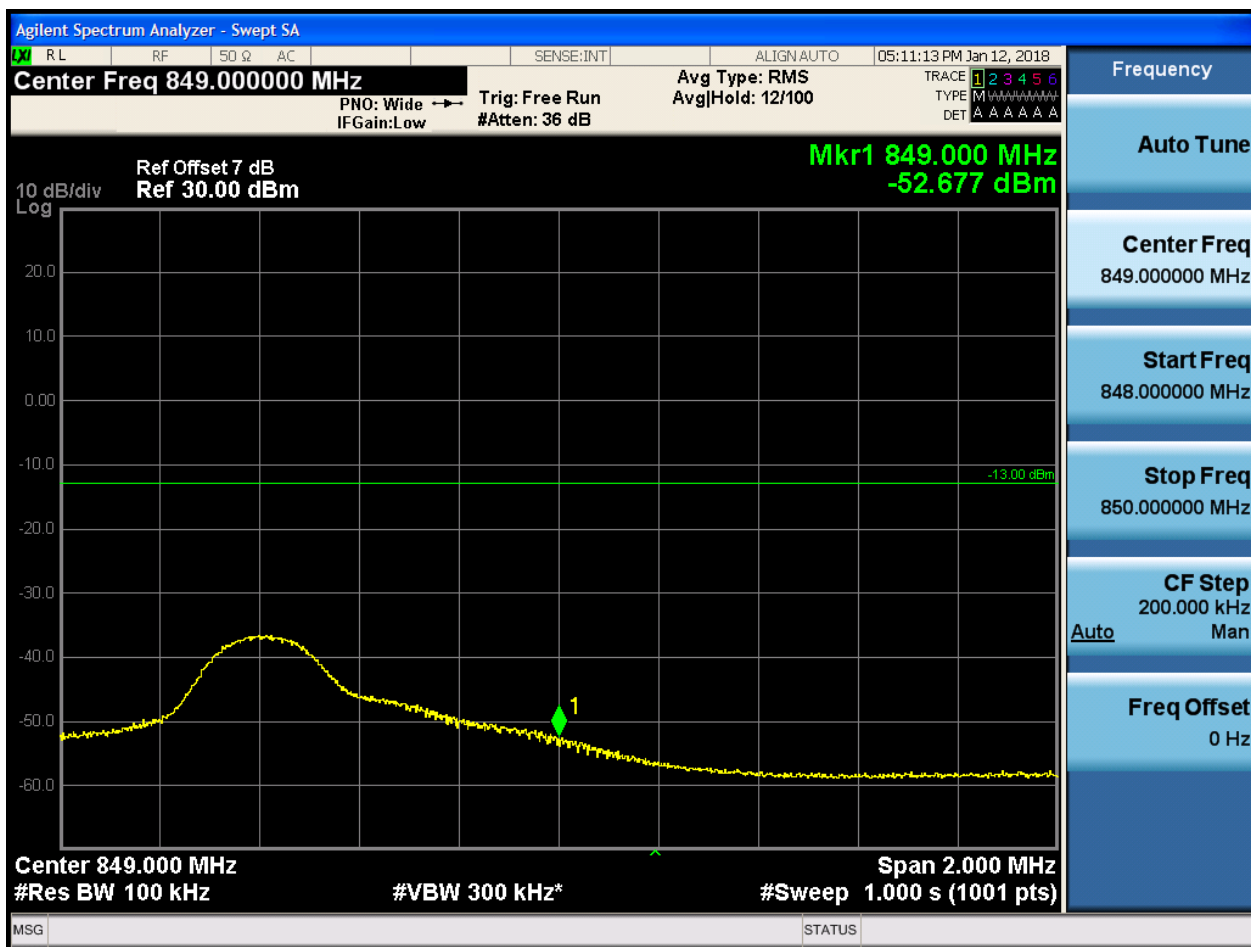
Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

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

Center Freq 849.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Mkr1 849.000 MHz
-27.784 dBm

-13.00 dBm

1

MSG STATUS

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Trig: Free Run
#Atten: 36 dB

Avg Type: RMS
Avg|Hold: 13/100

Mkr1 849.020 MHz
-34.117 dBm

-13.00 dBm

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 05:12:11 PM Jan 12, 2018

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 13/100
#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 849.010 MHz
-31.424 dBm

10 dB/div
Log

Center 849.000 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
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 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

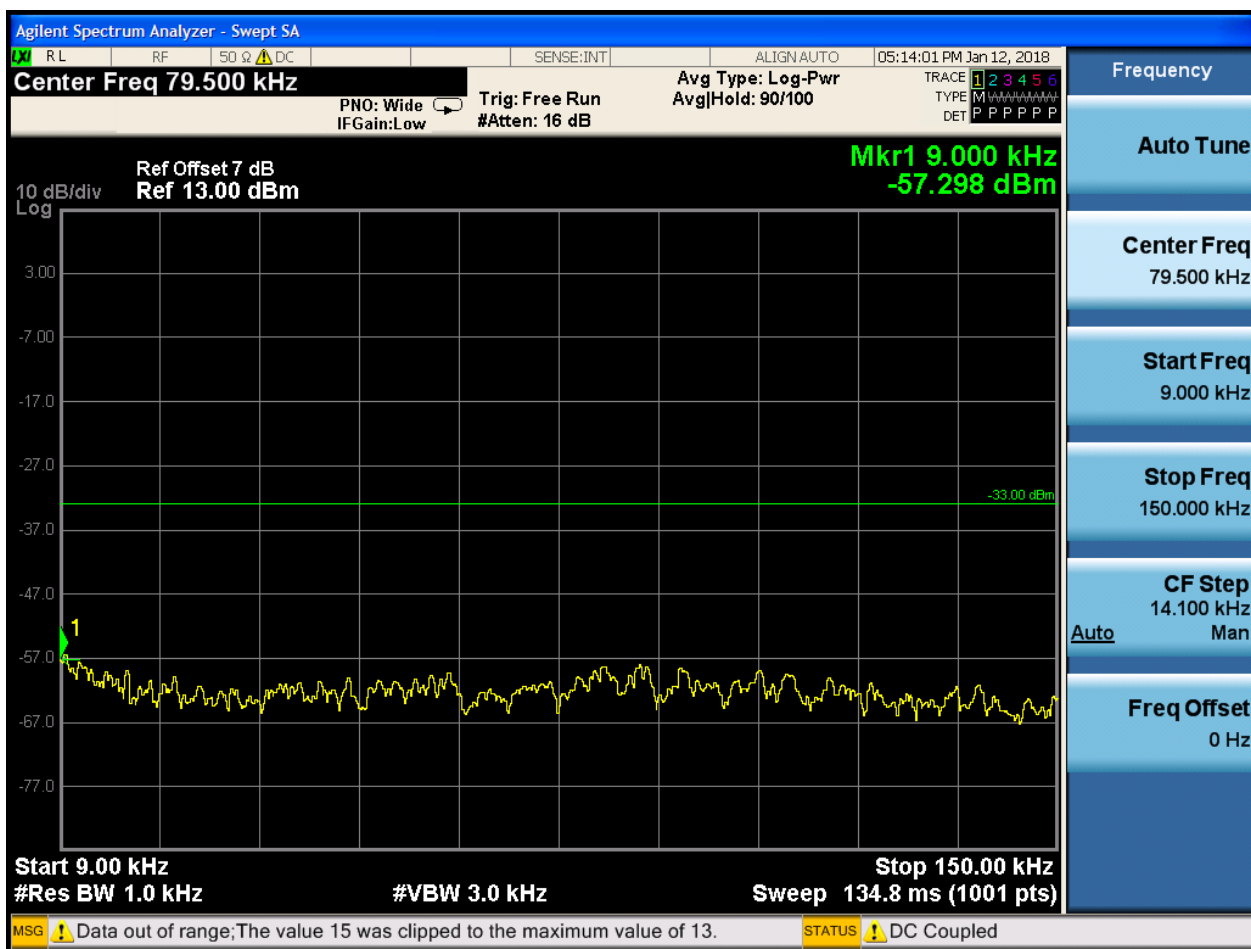
6.1.1 Test Band = BAND5

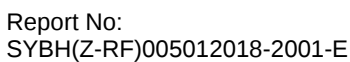
6.1.1.1 Test Mode = LTE/TM1

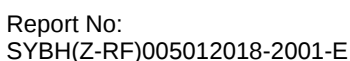
6.1.1.1.1 Test Bandwidth = 1.4

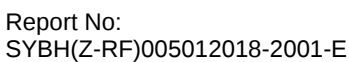
6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0





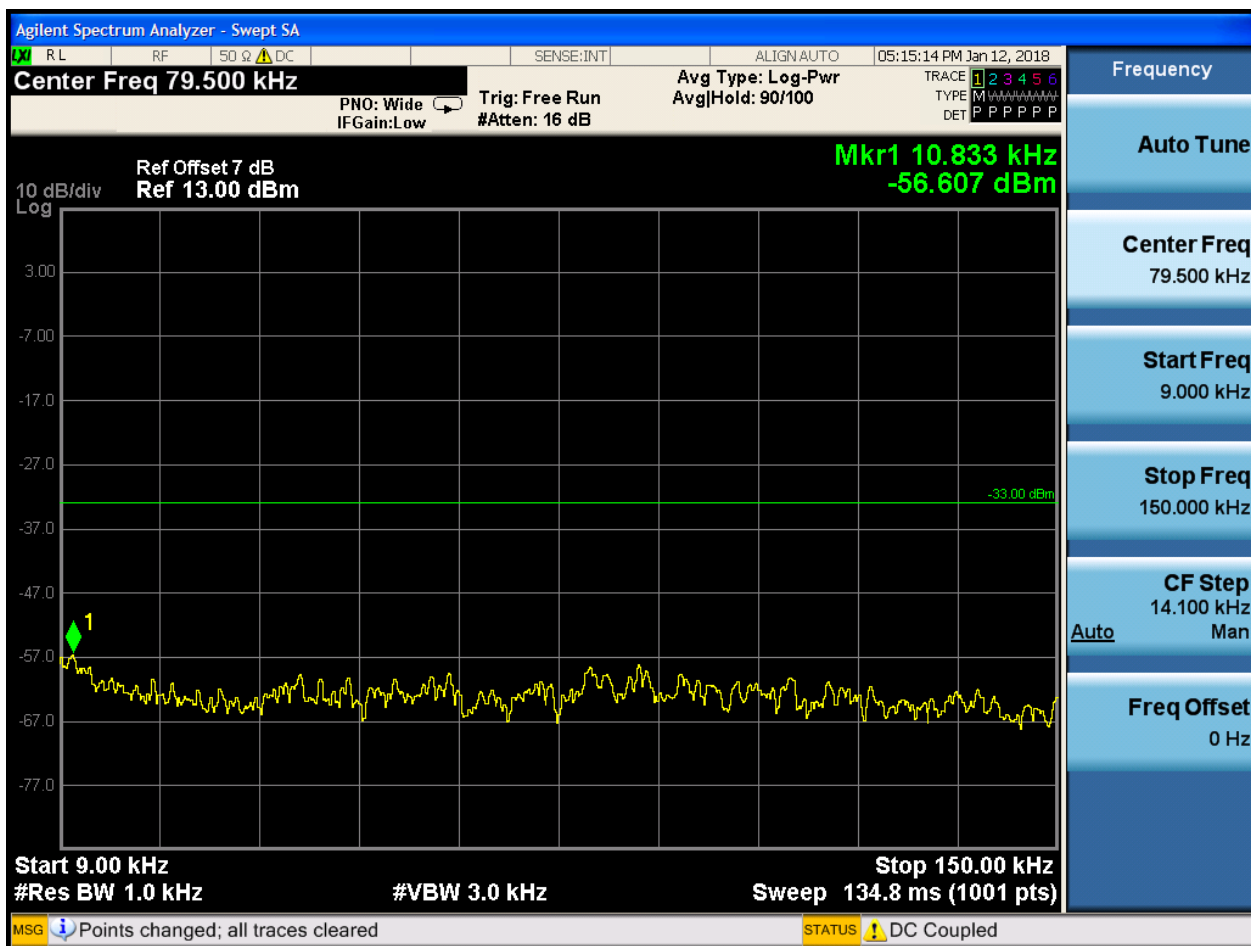


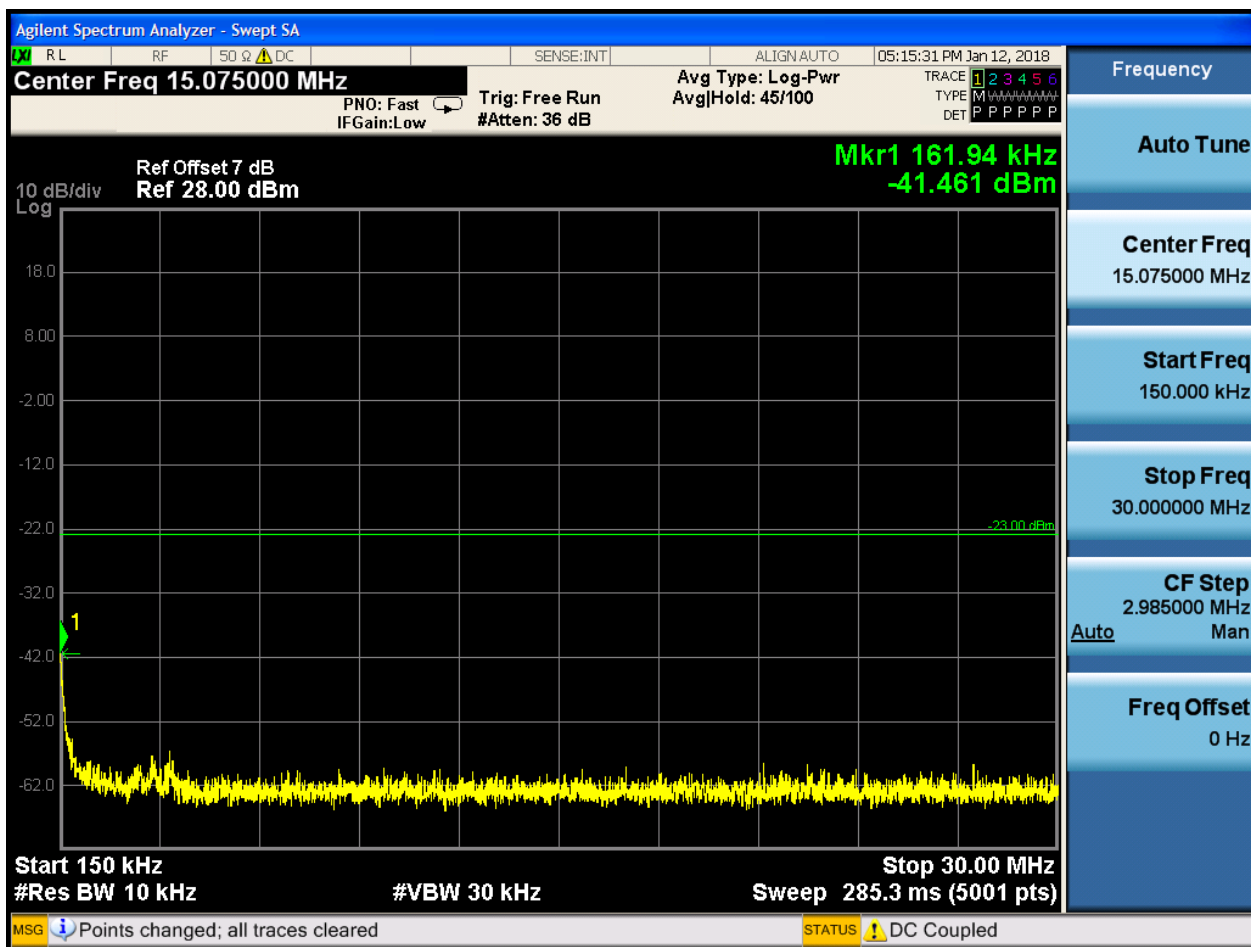


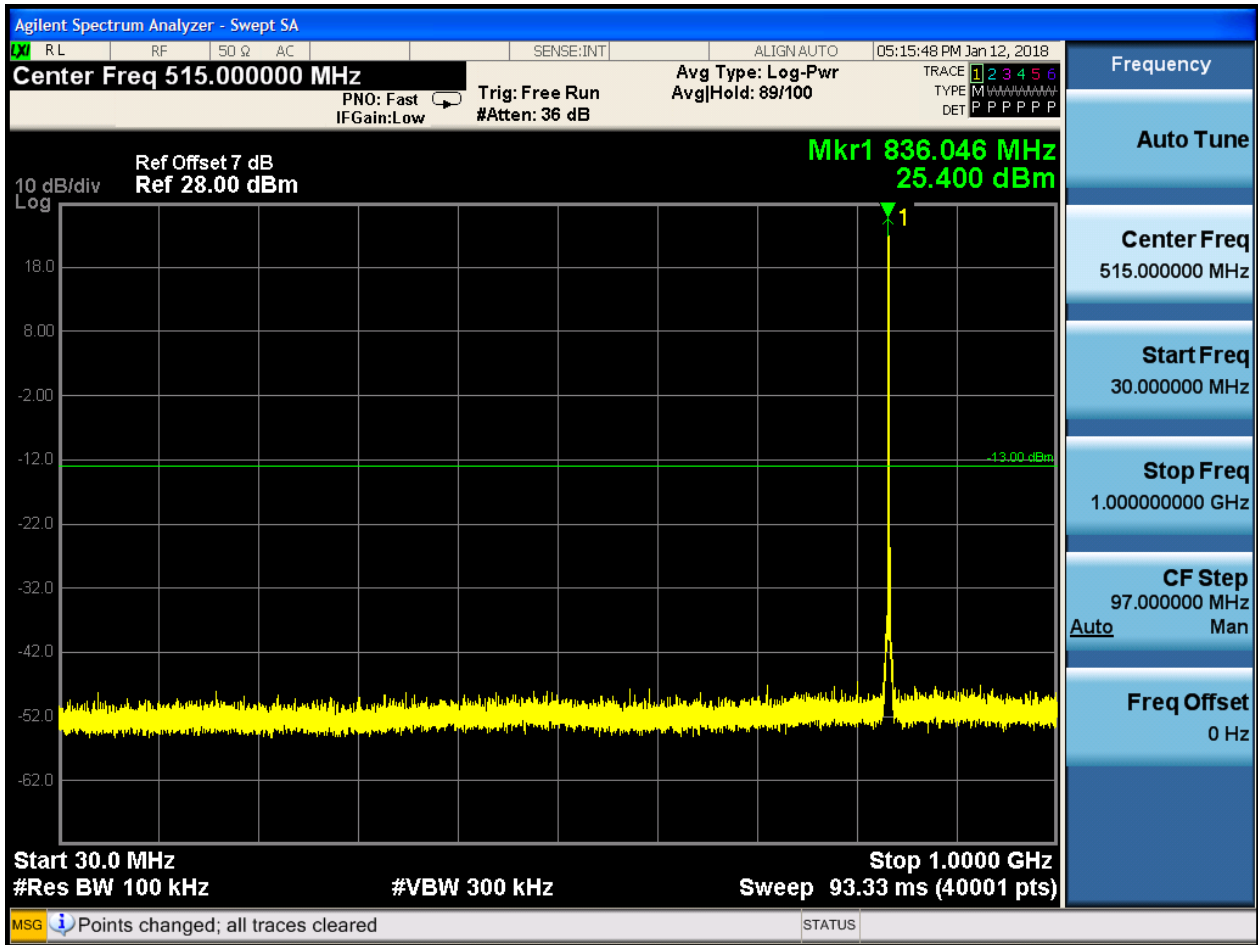


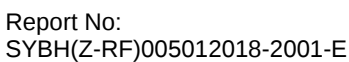
6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0





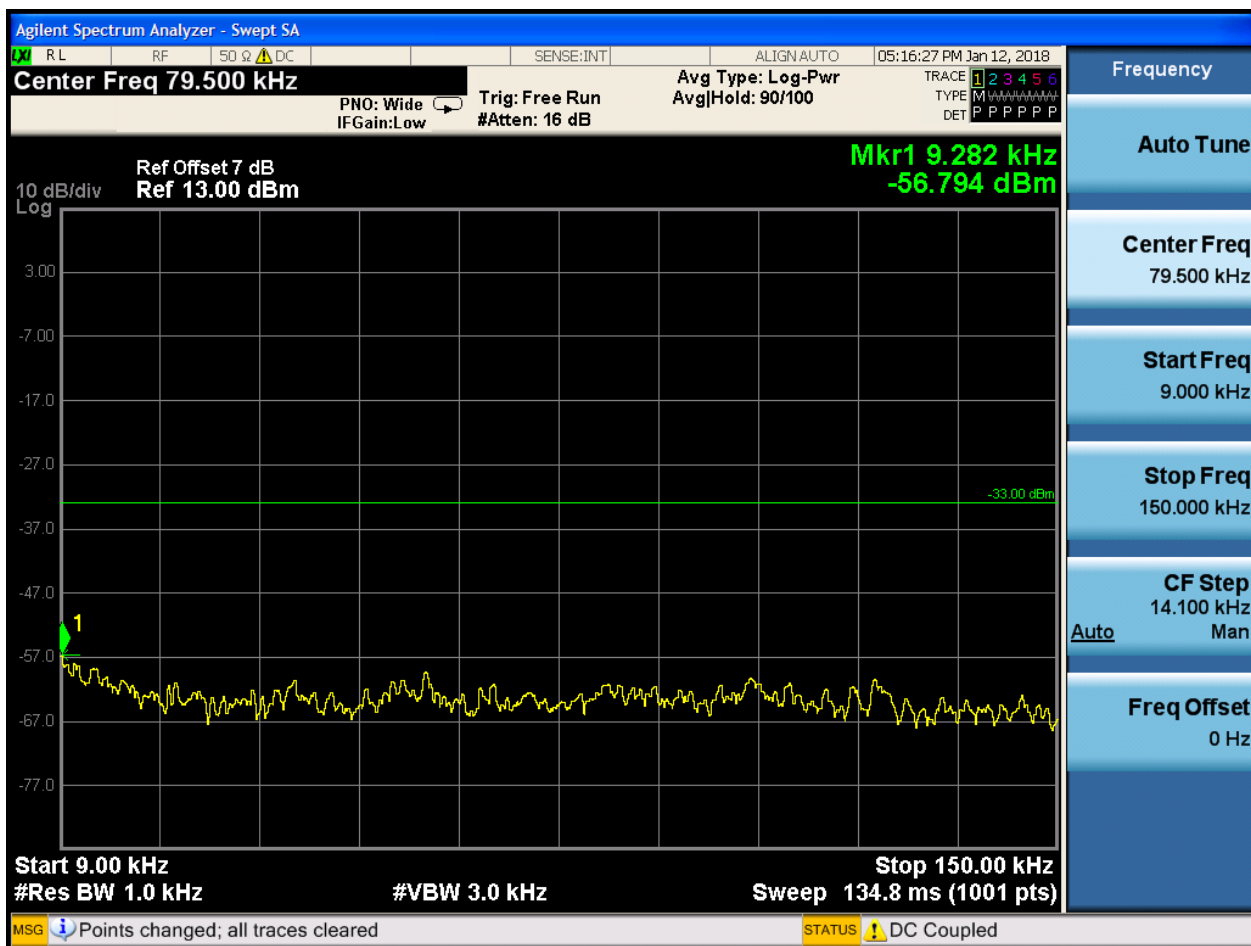


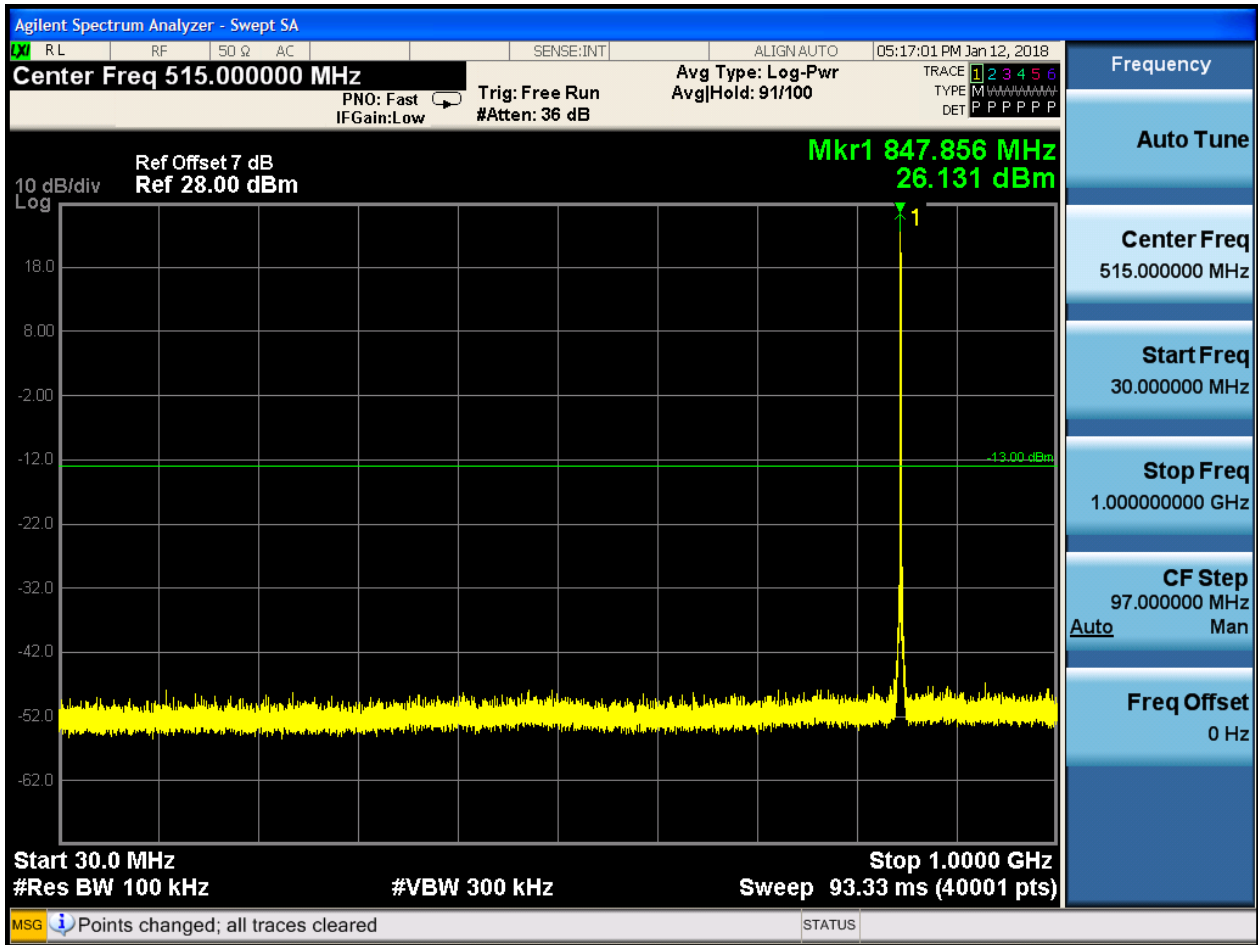


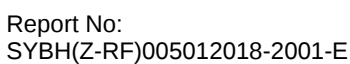


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0





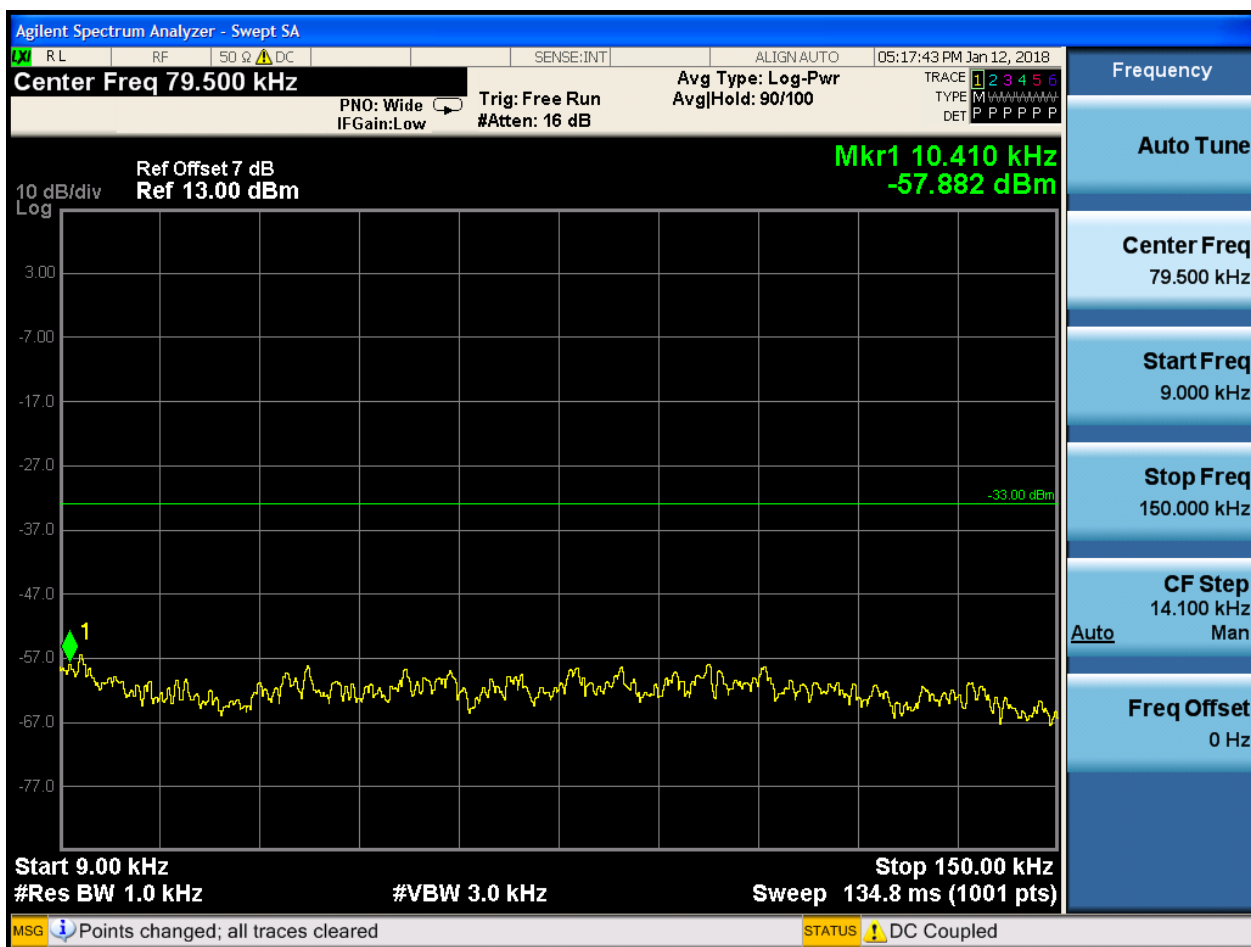


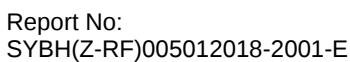


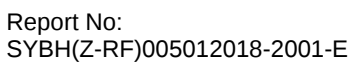
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



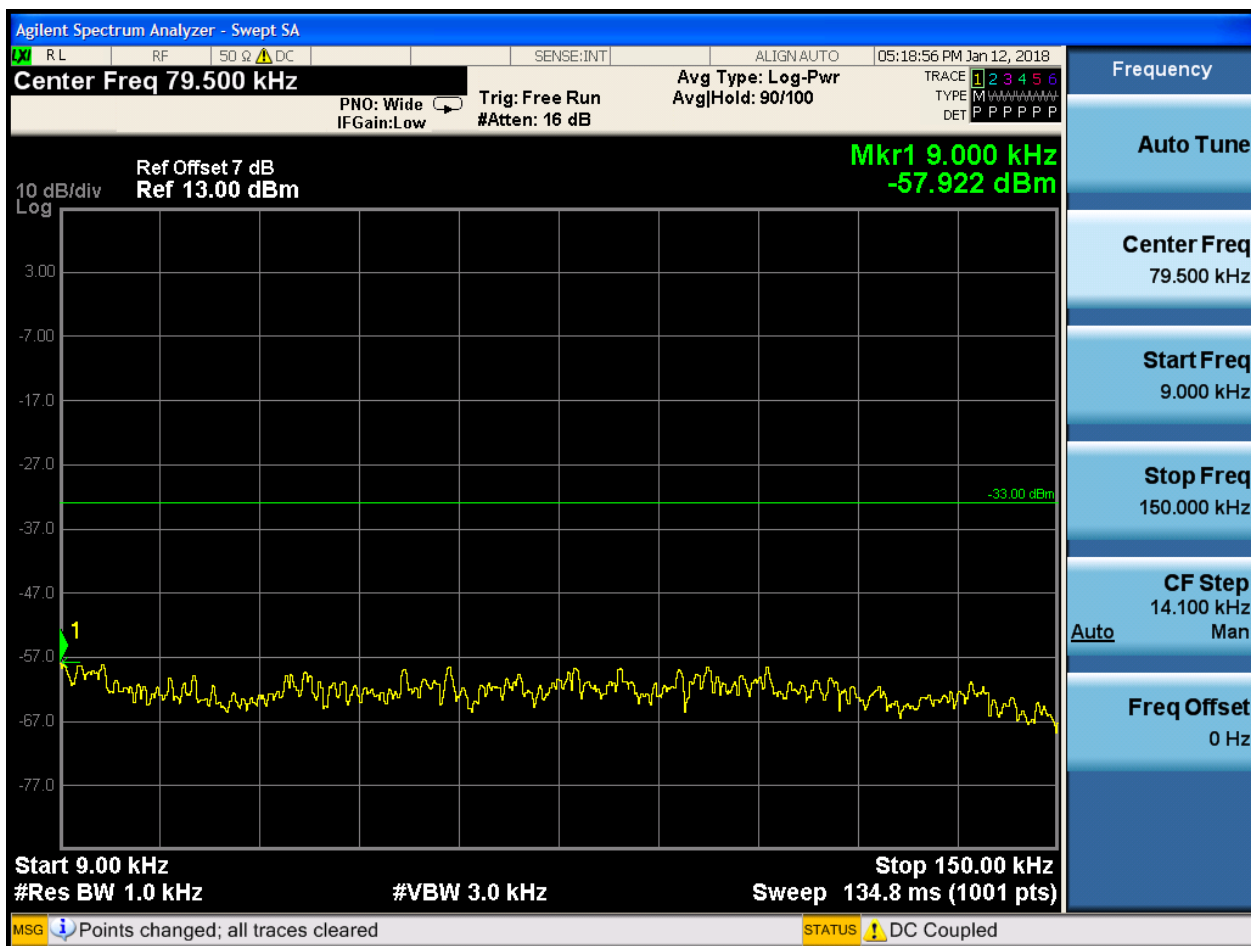


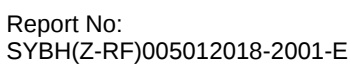


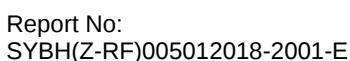


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0

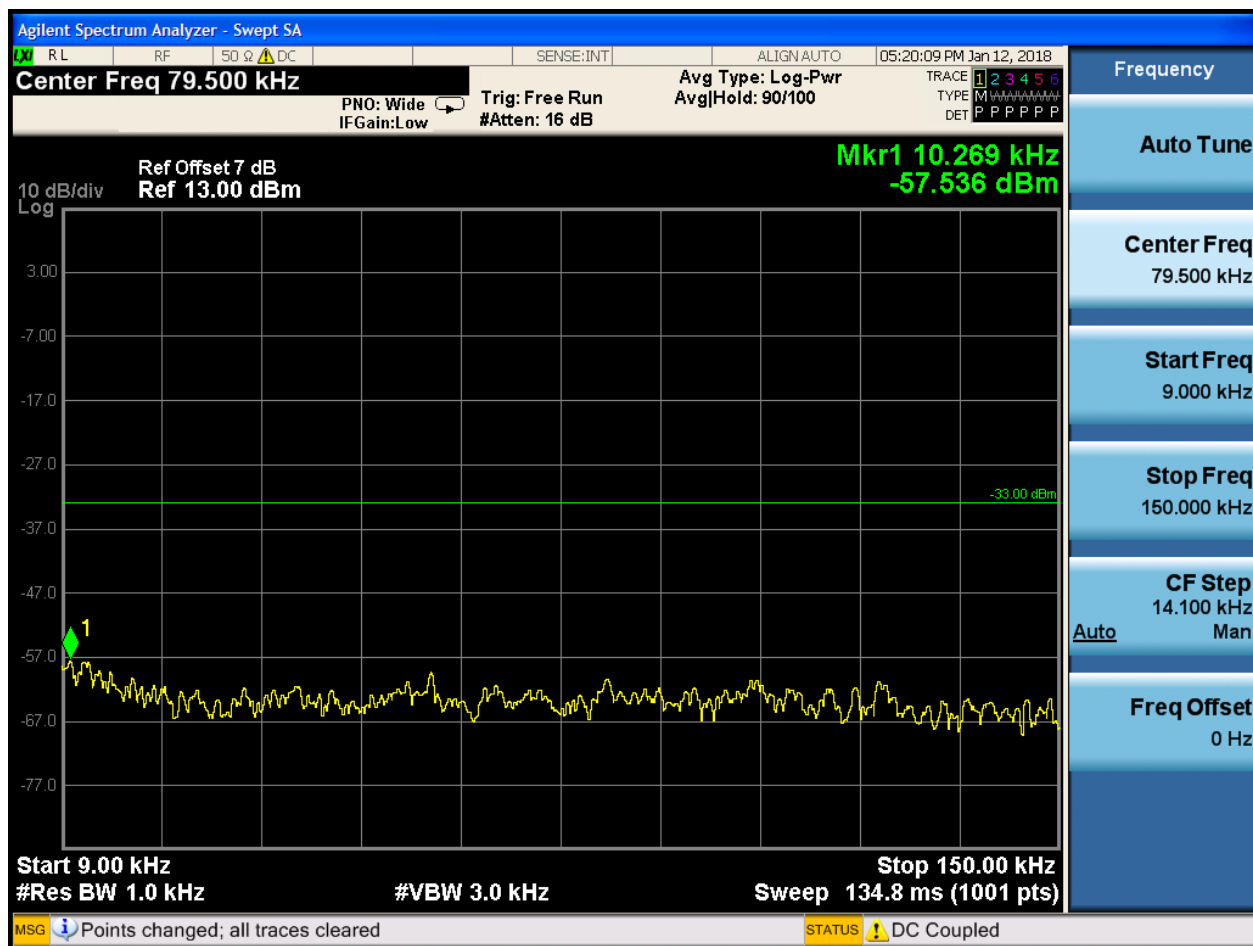


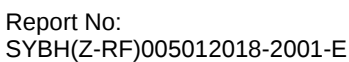


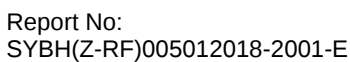


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





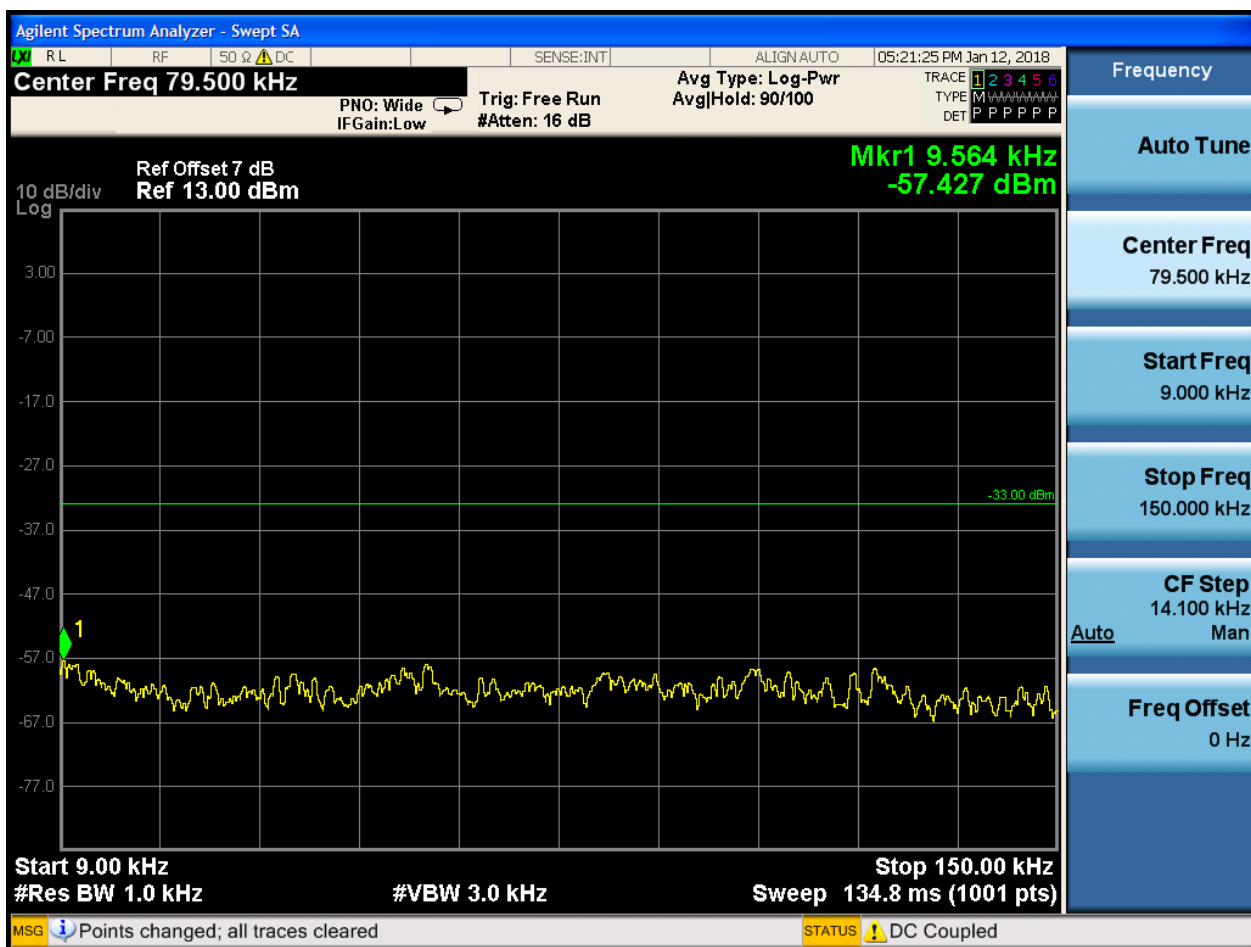


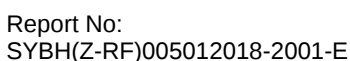


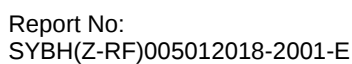
6.1.1.1.3 Test Bandwidth = 5

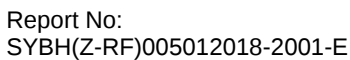
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0





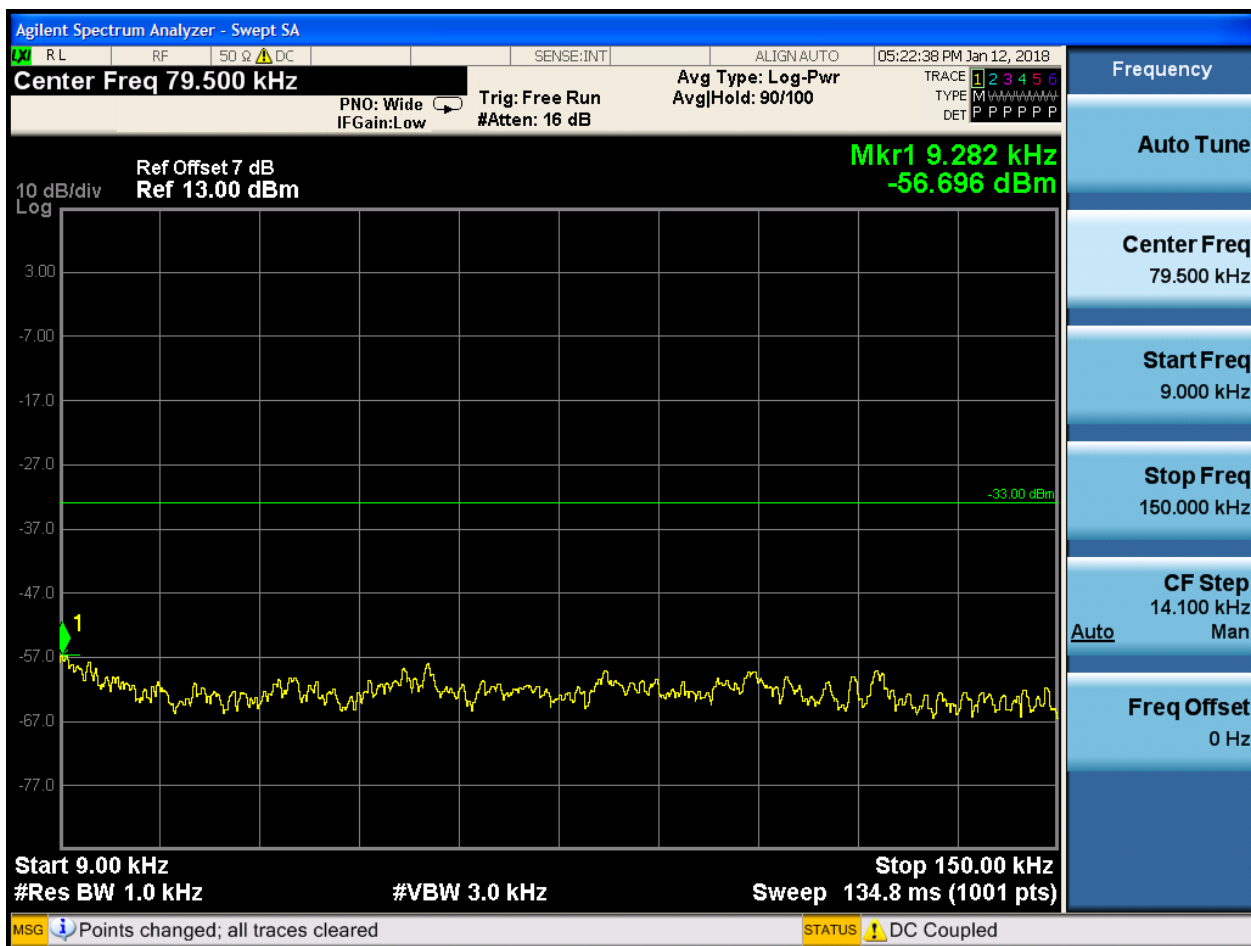


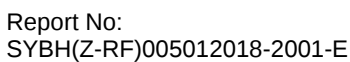


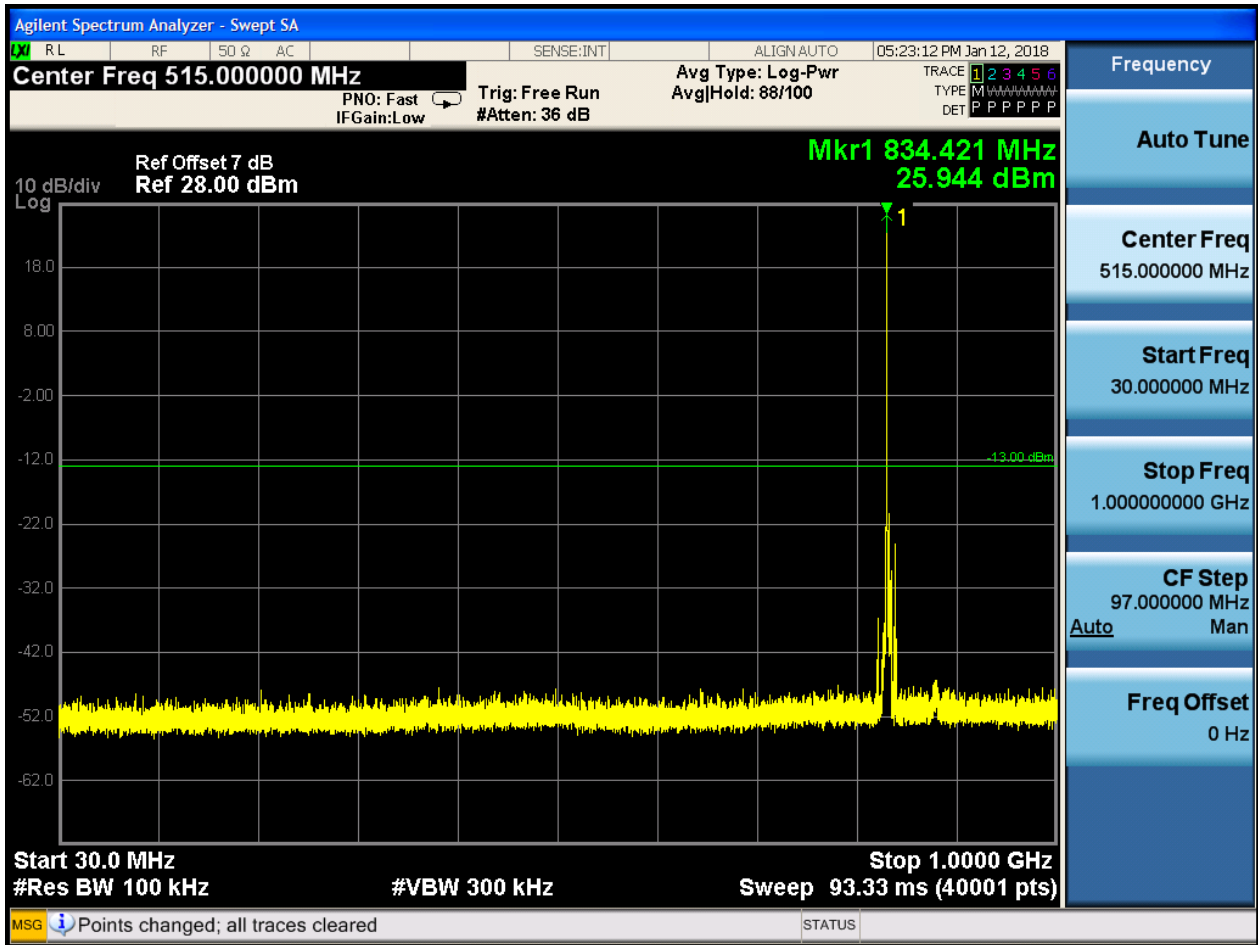


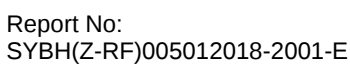
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0





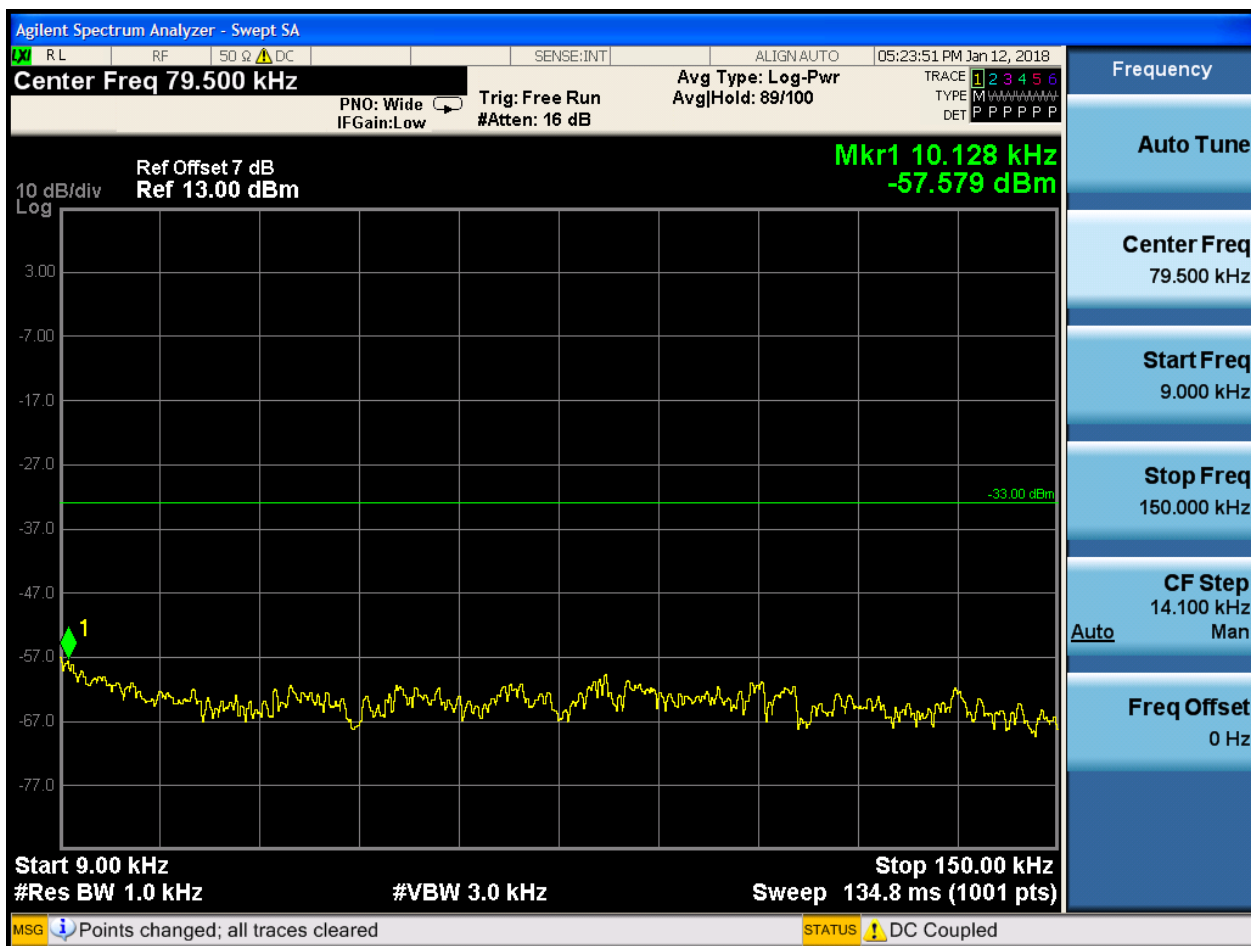


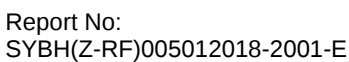


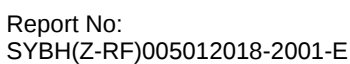


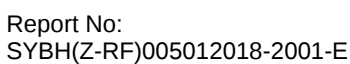
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0





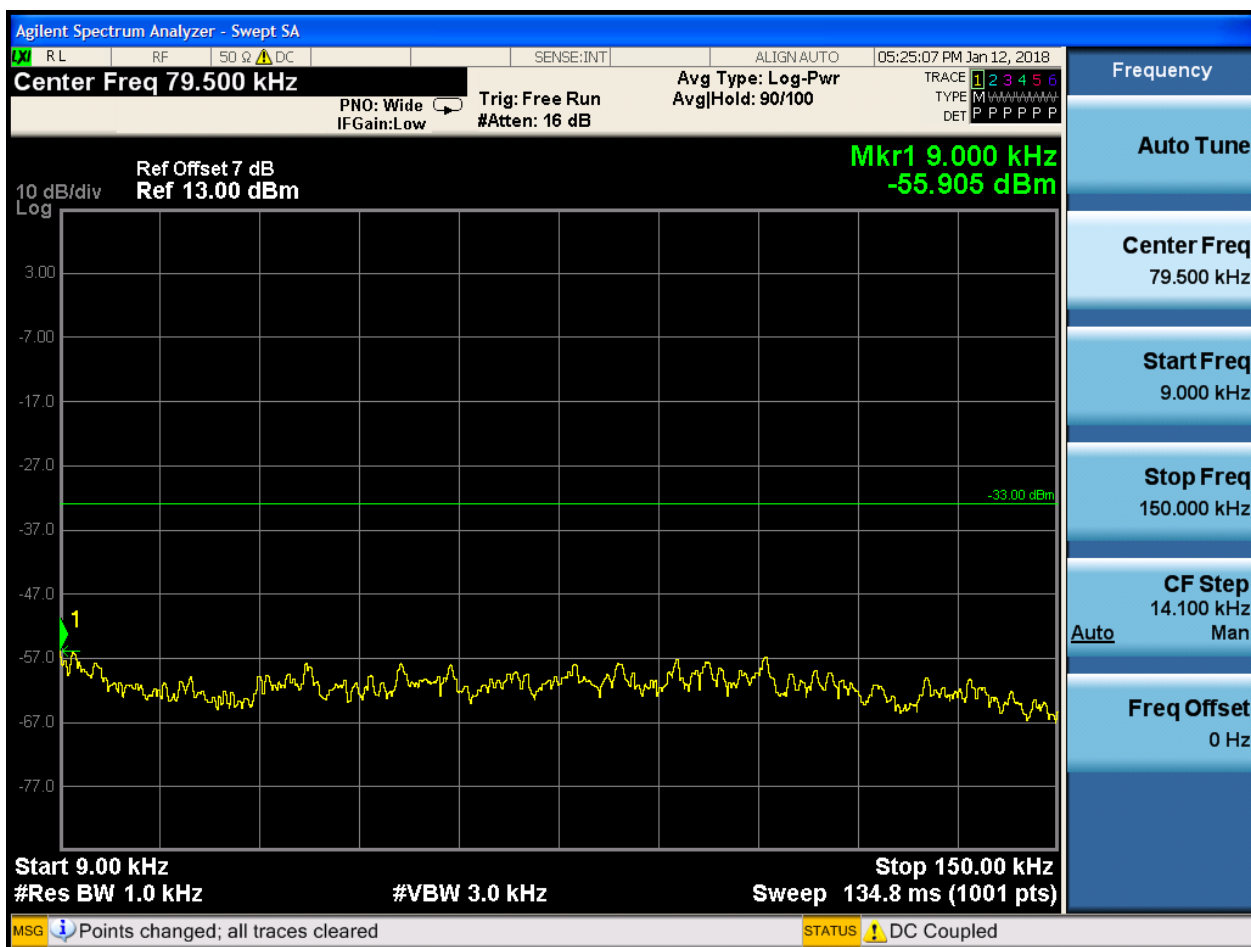


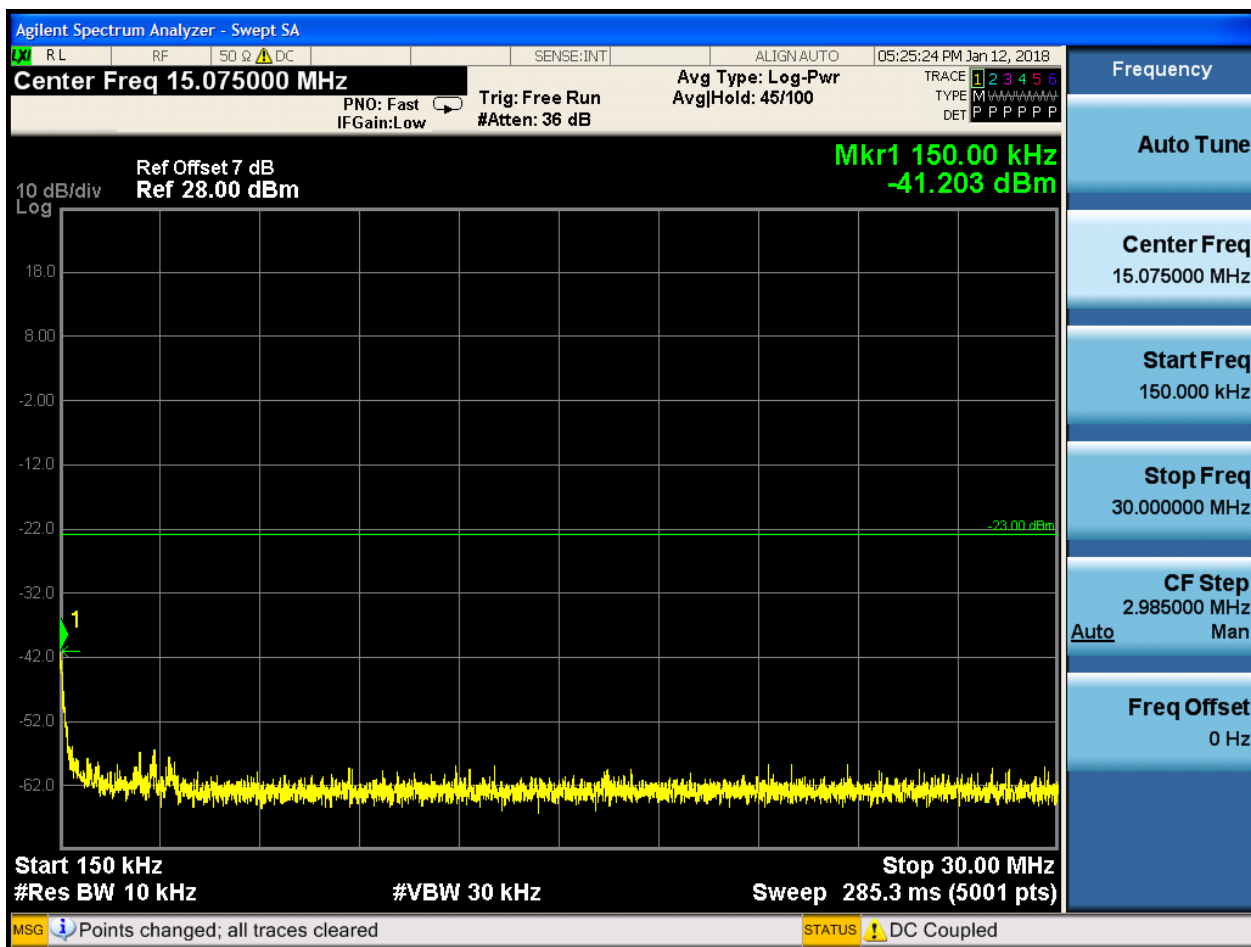


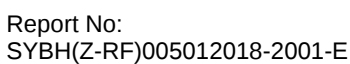
6.1.1.1.4 Test Bandwidth = 10

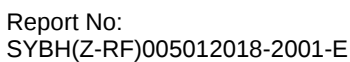
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



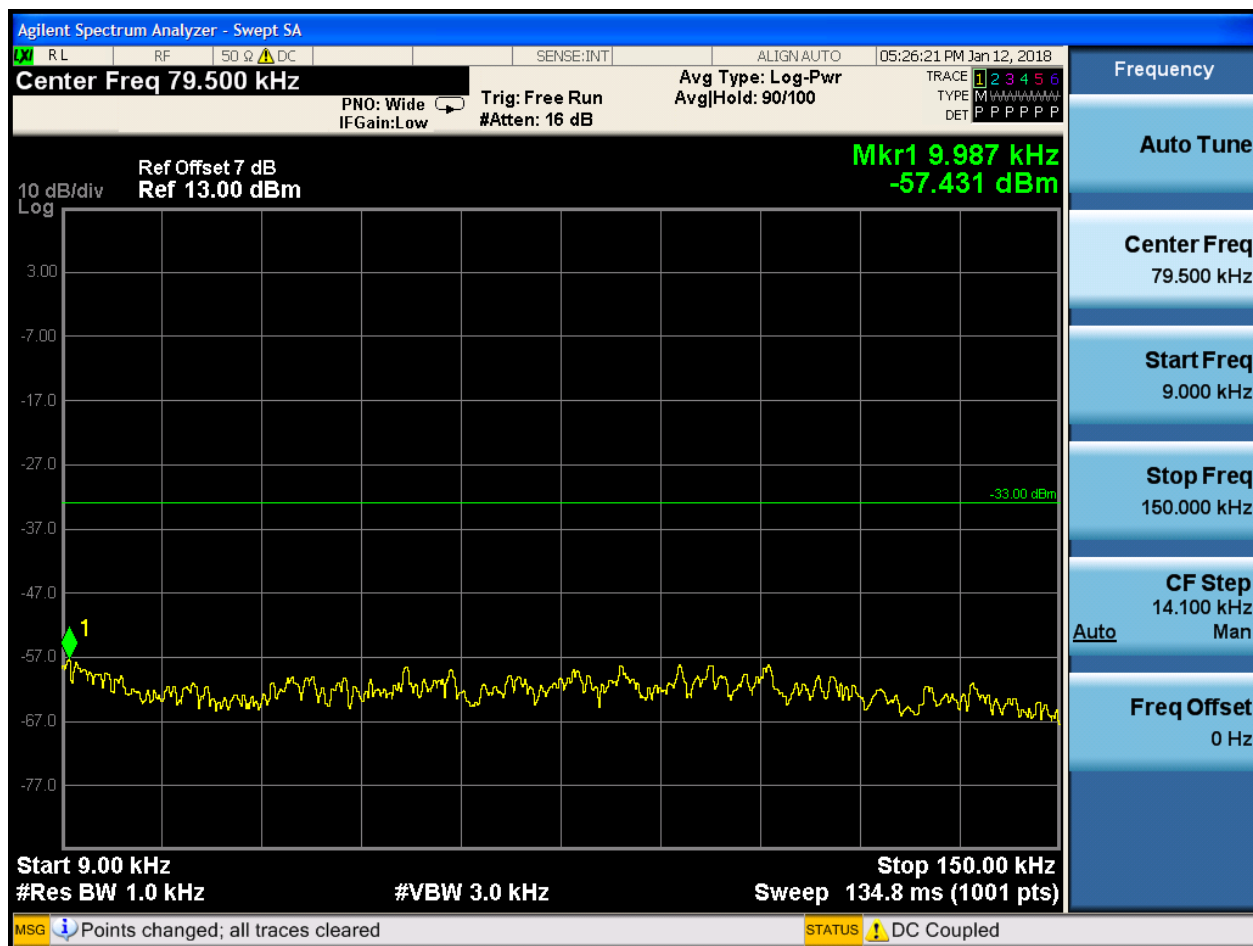


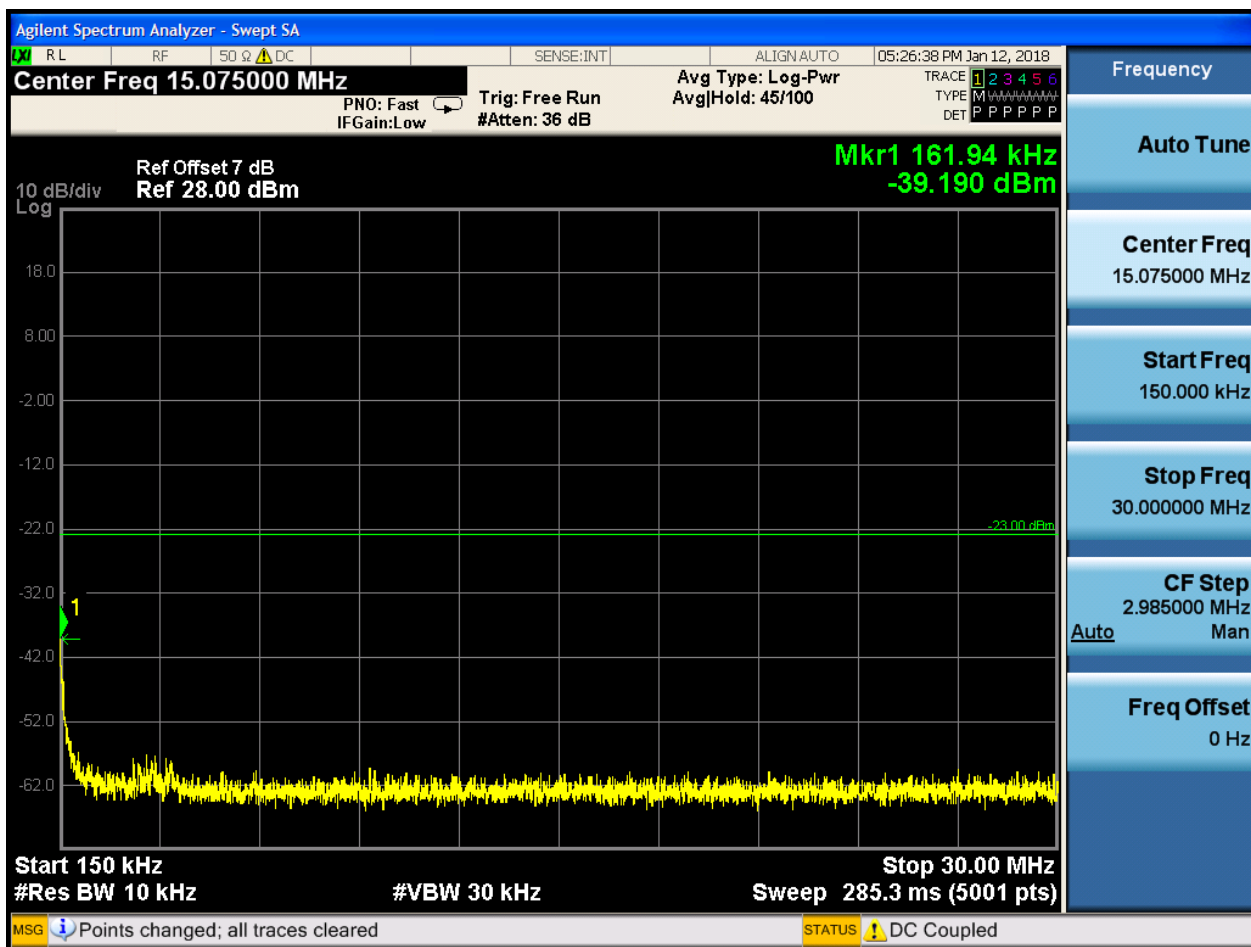


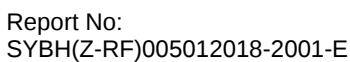


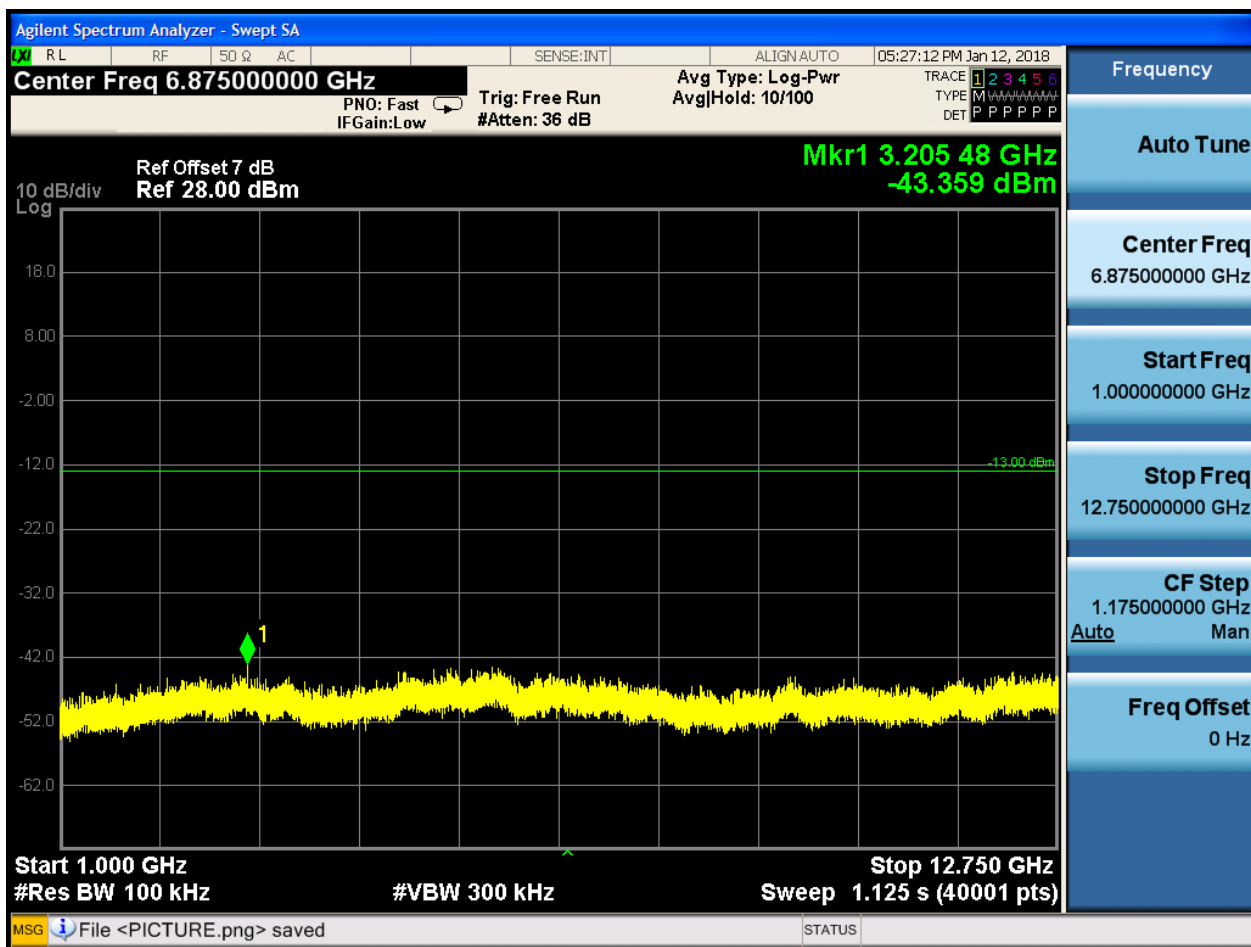
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0





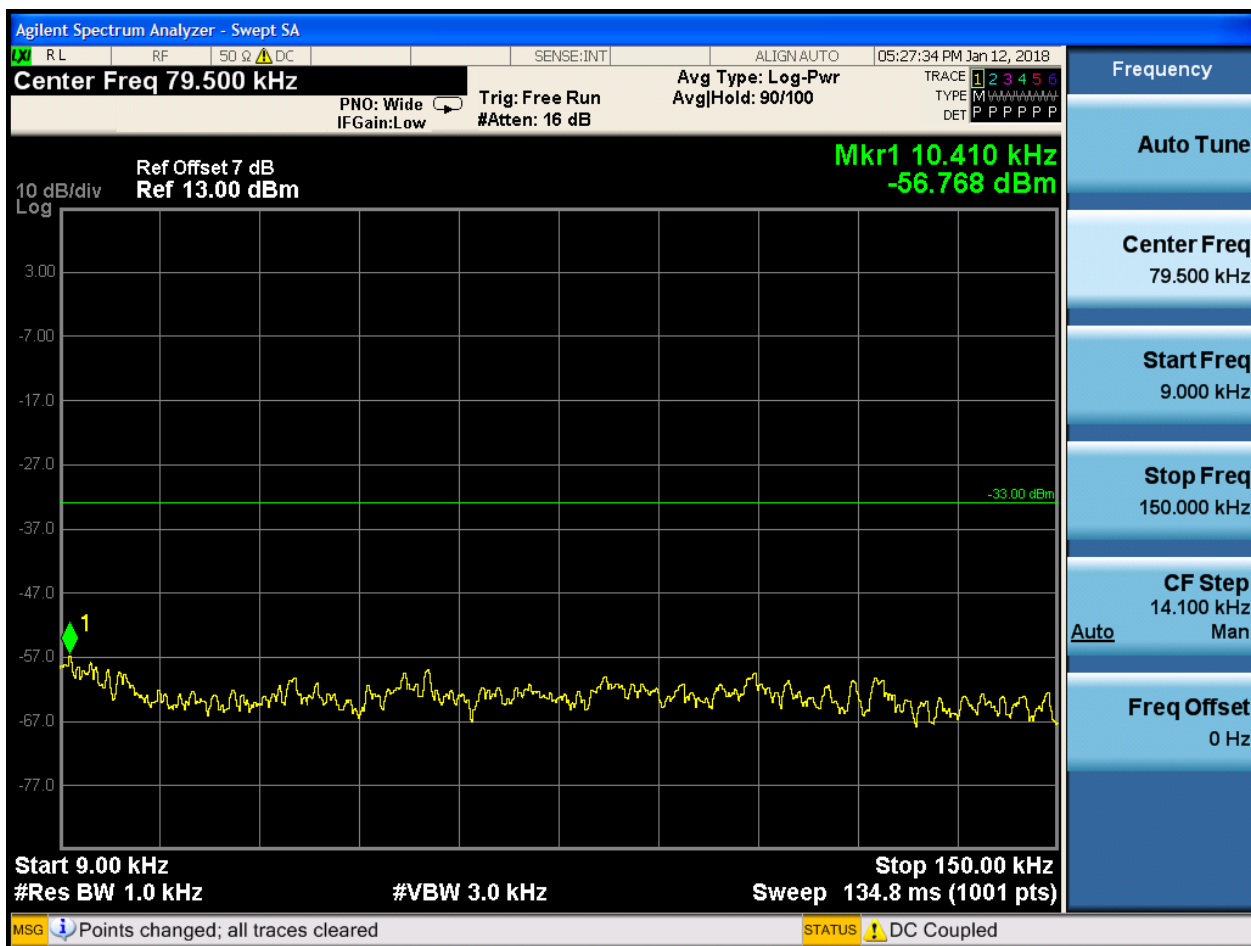


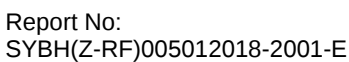


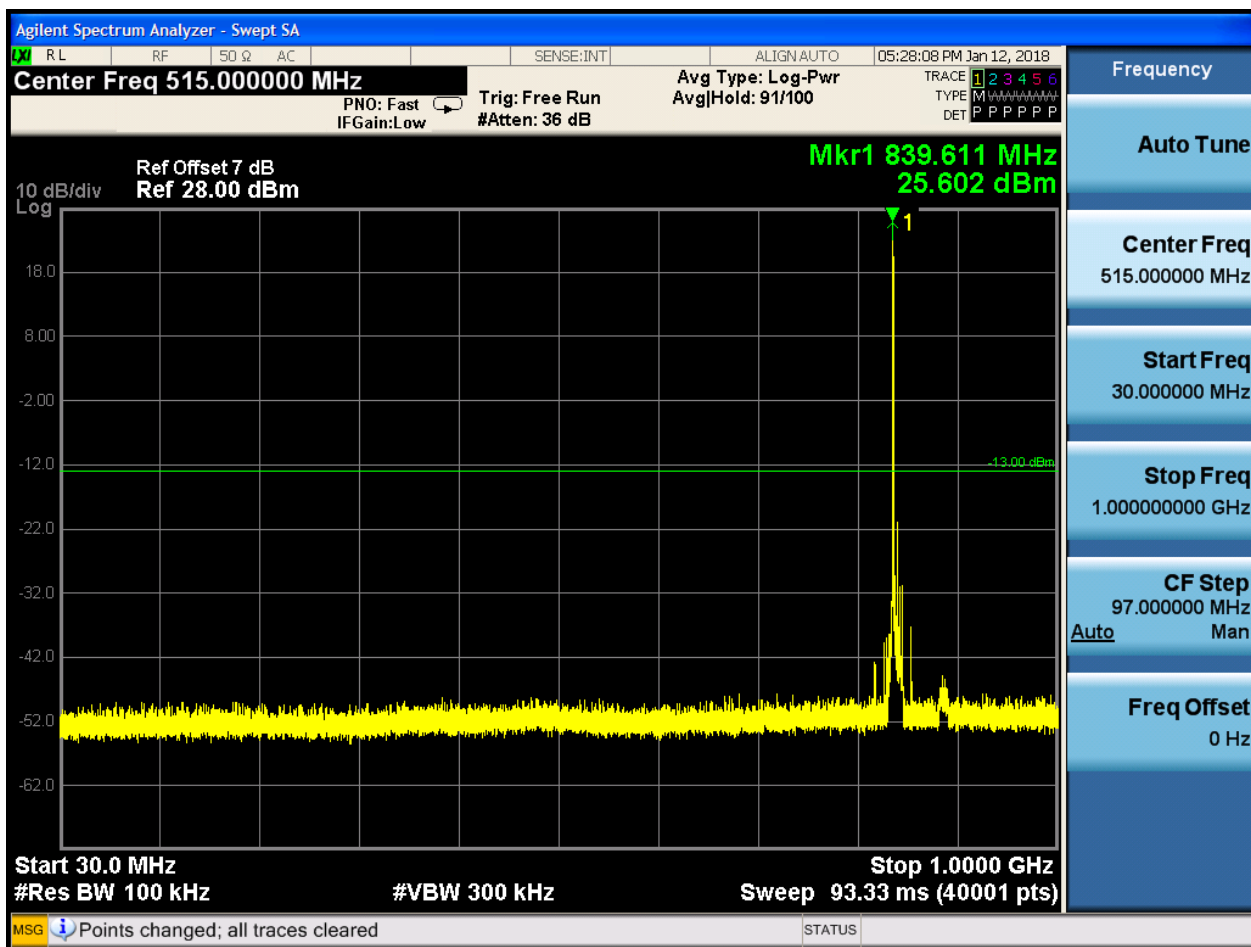


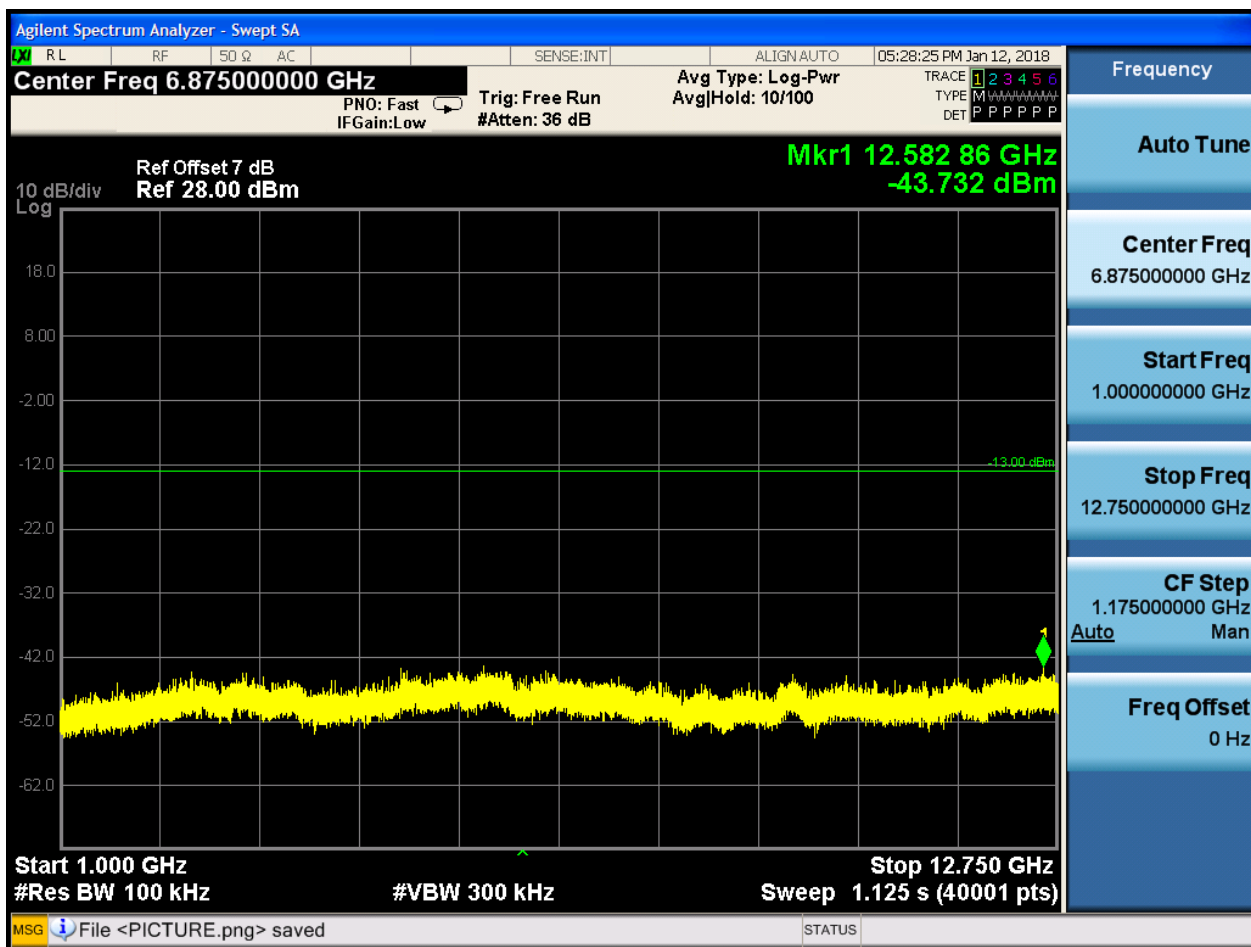
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









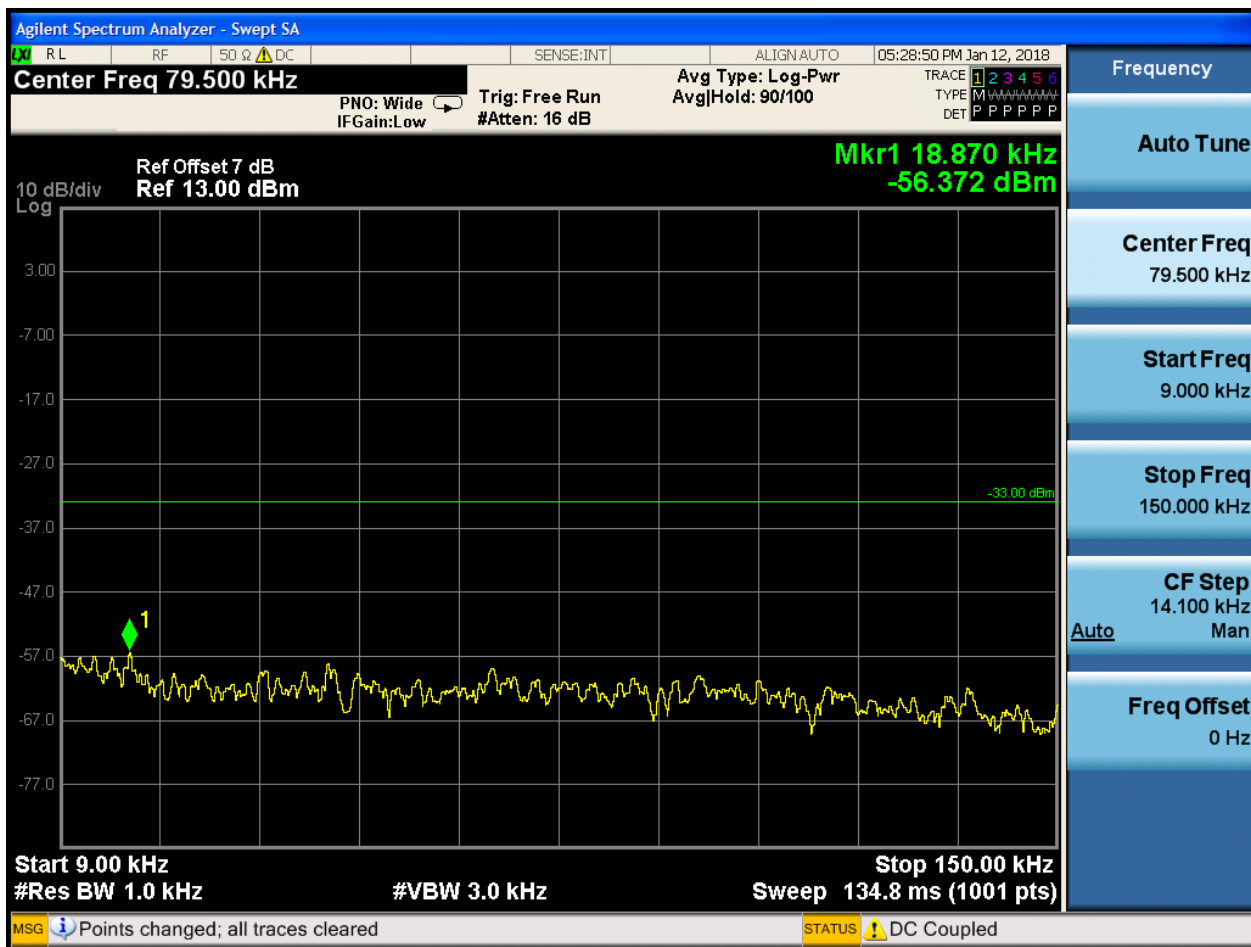


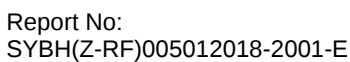
6.1.1.2 Test Mode = LTE/TM2

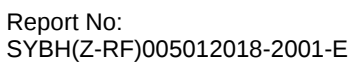
6.1.1.2.1 Test Bandwidth = 1.4

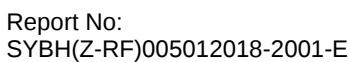
6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



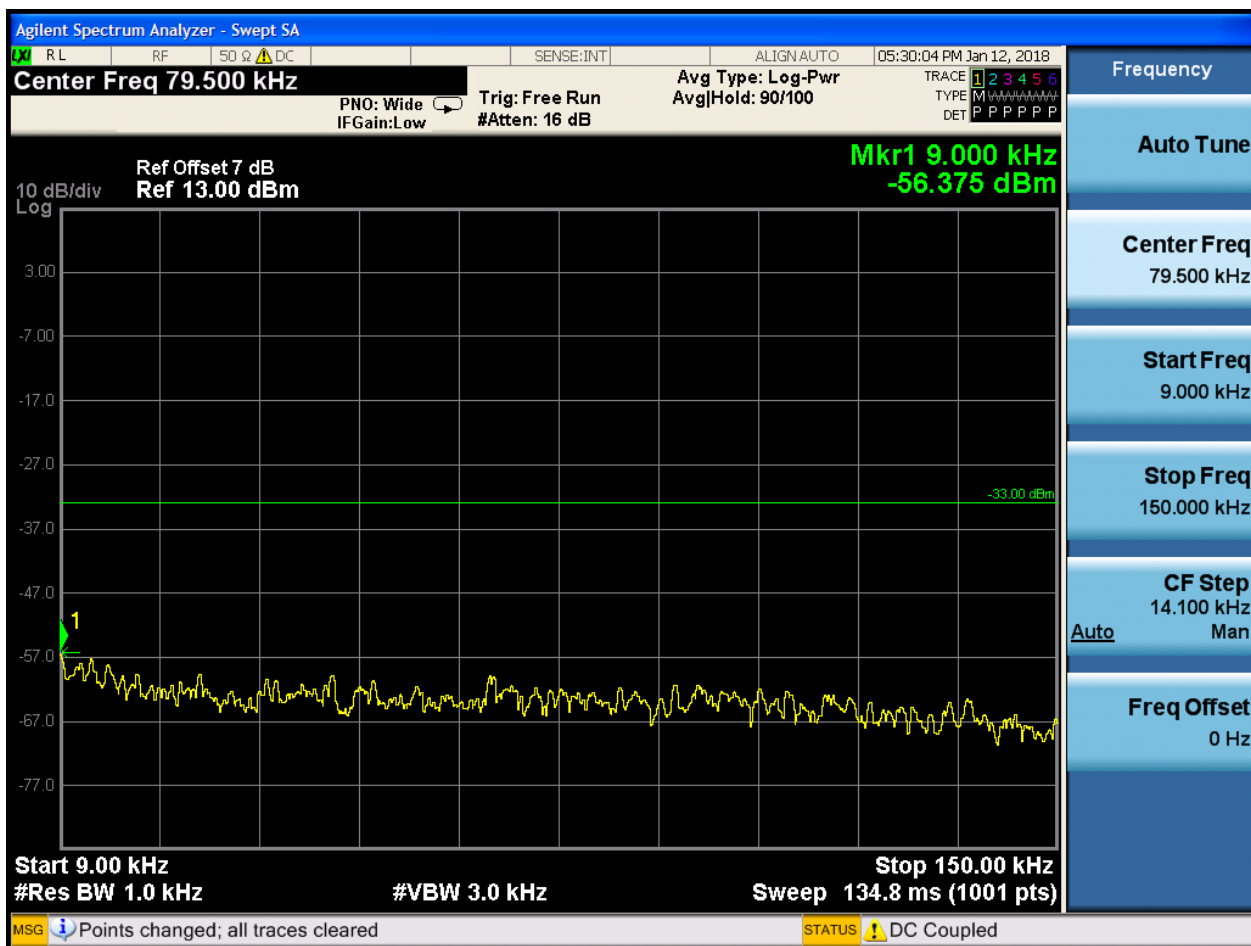


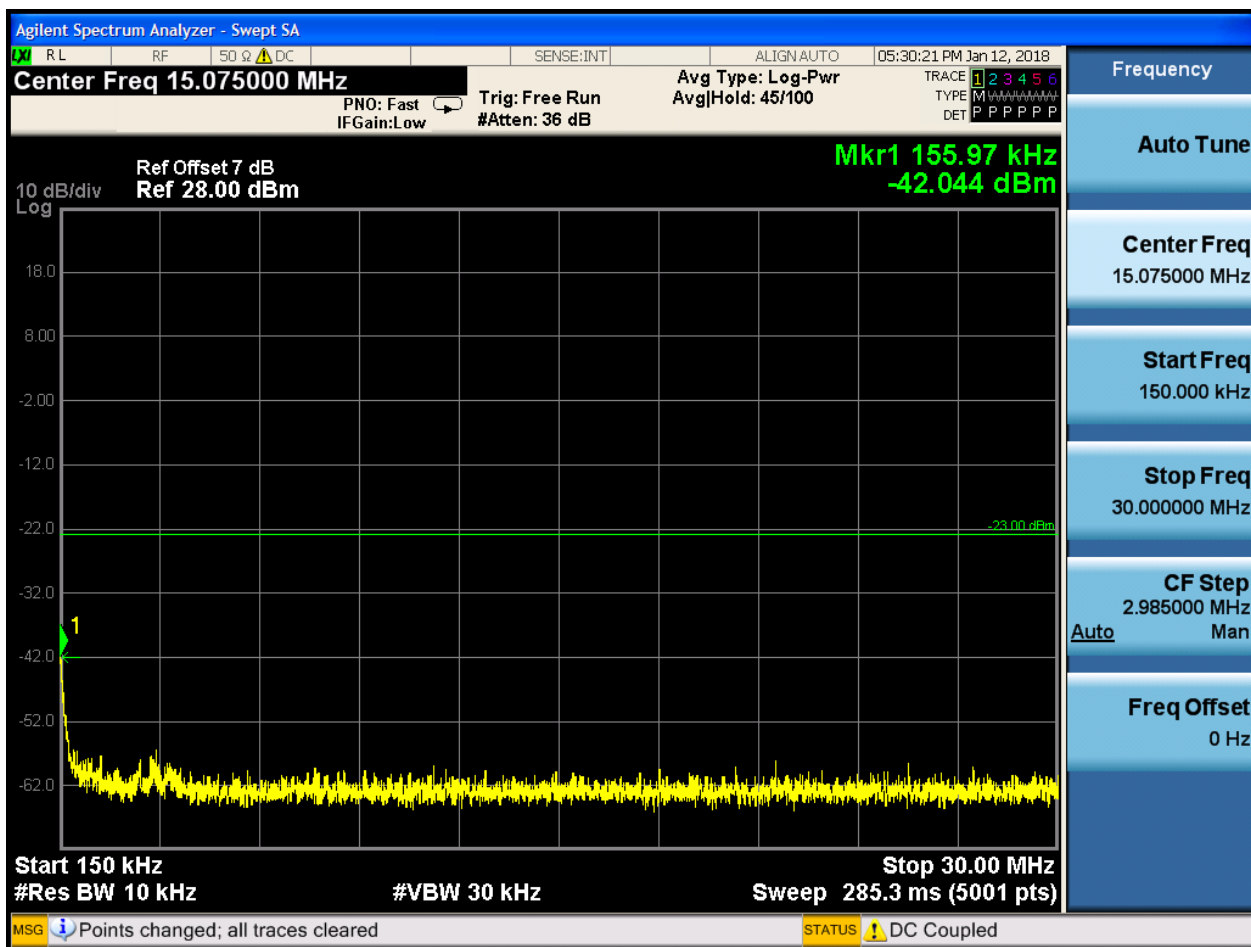


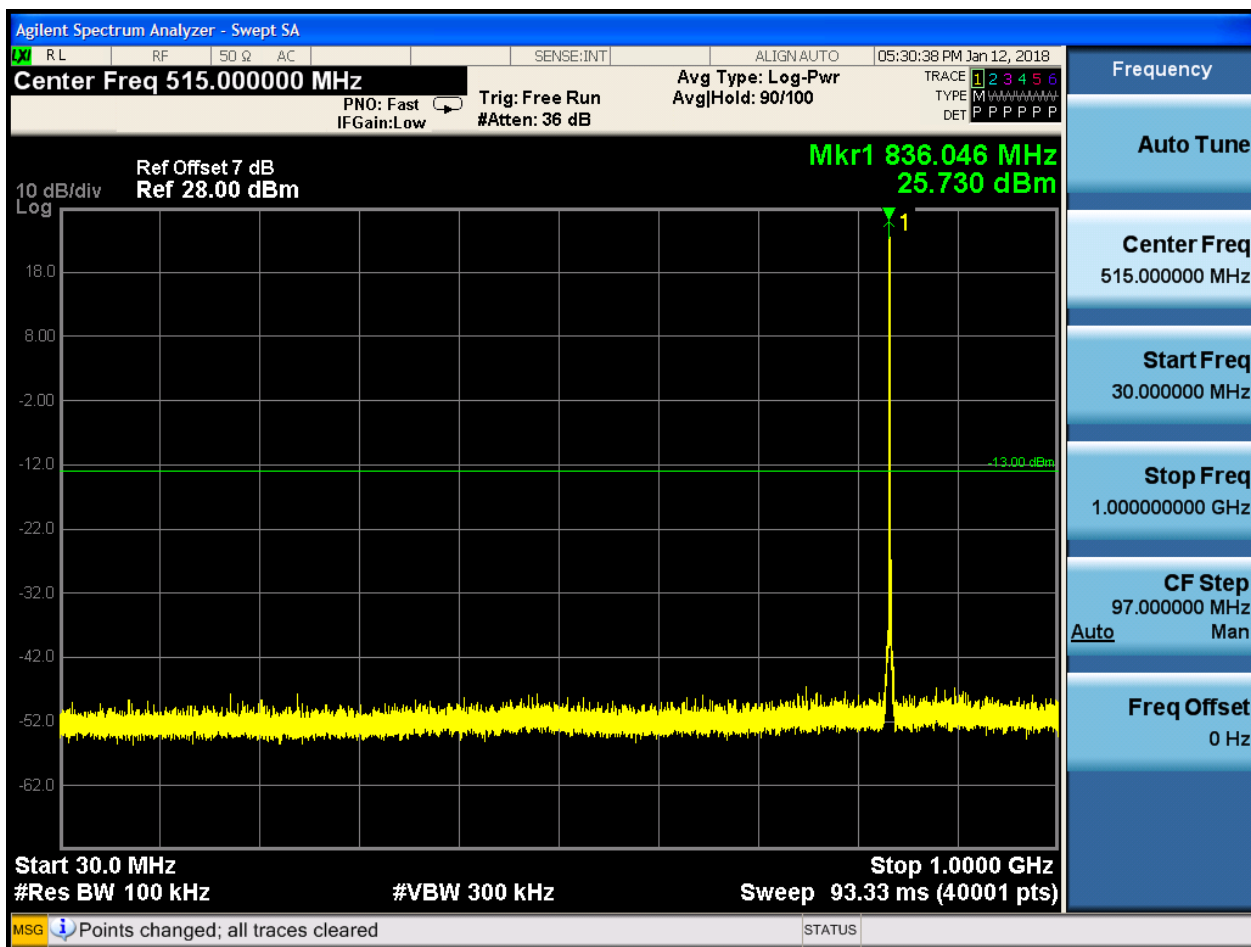


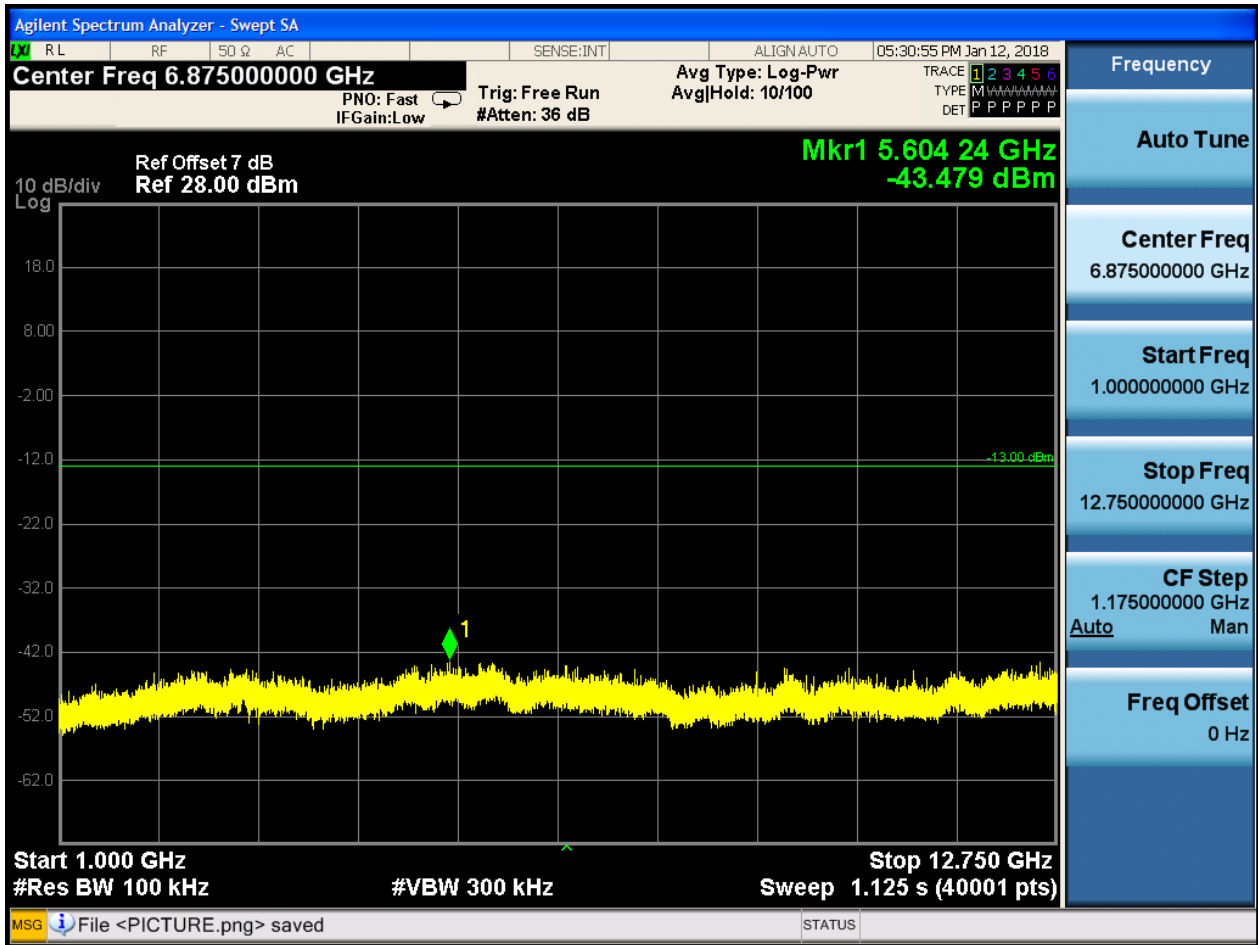
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0





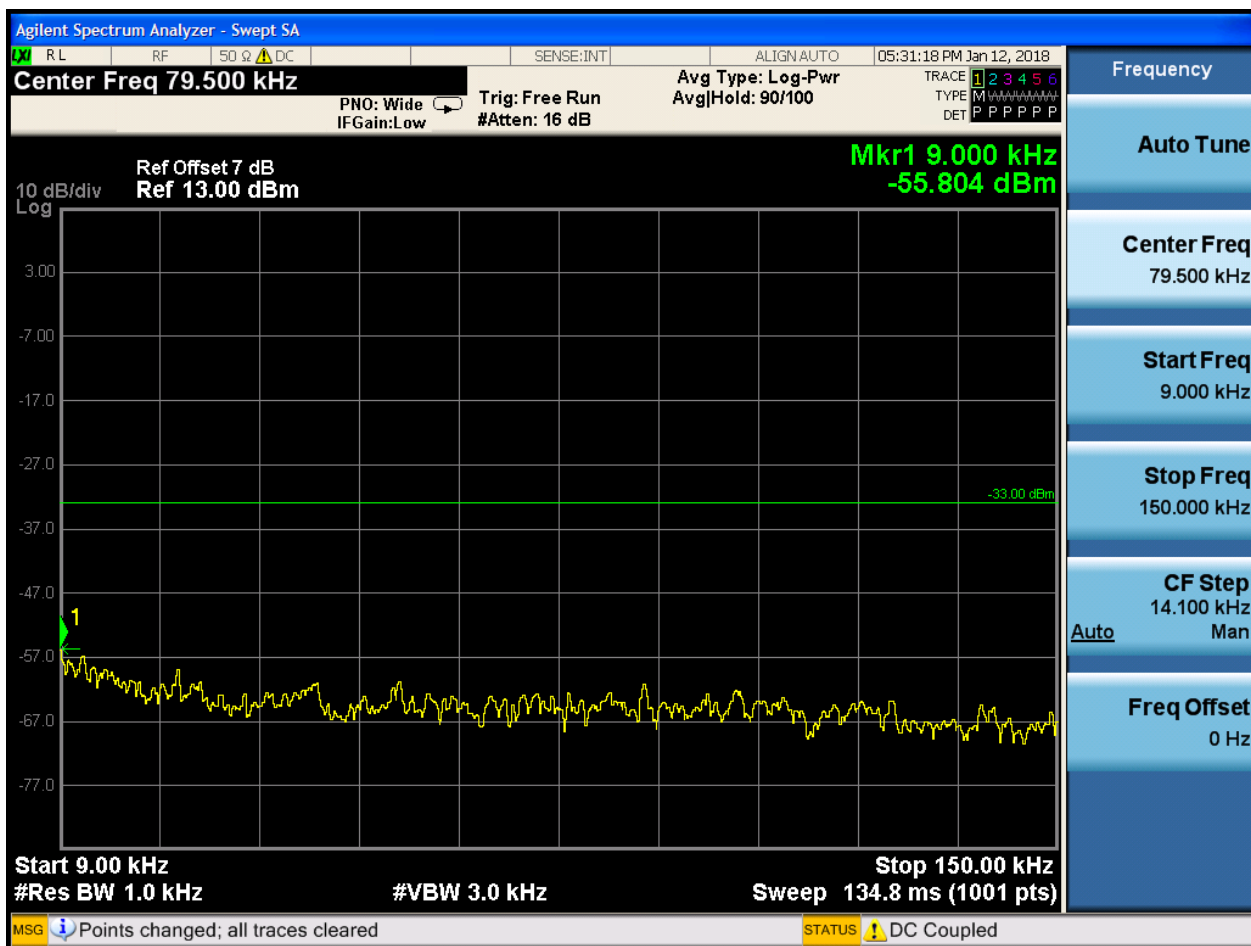


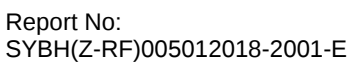


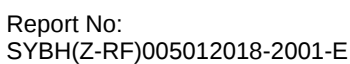


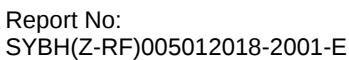
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0







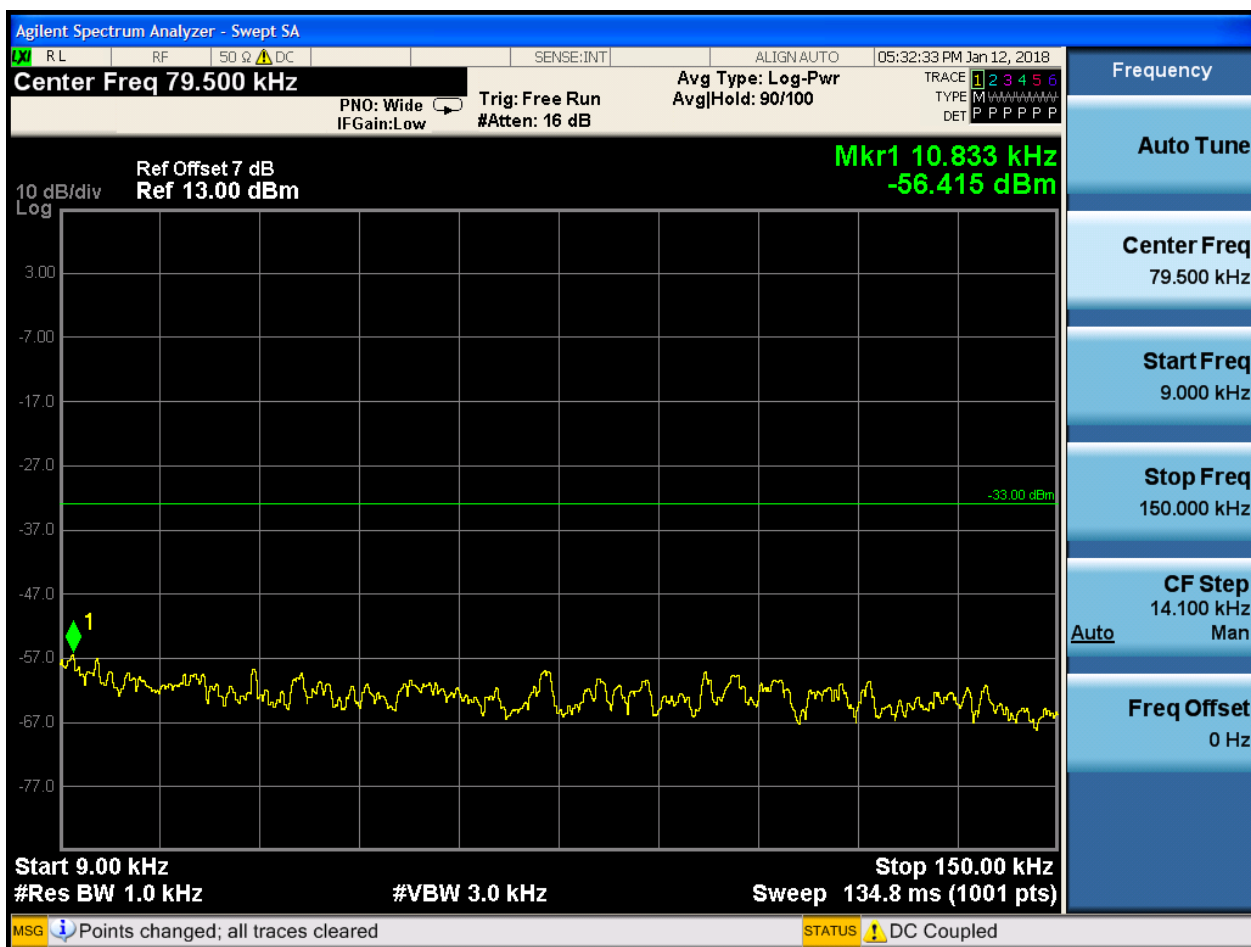


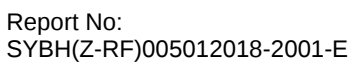


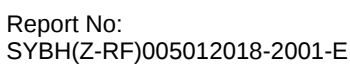
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0

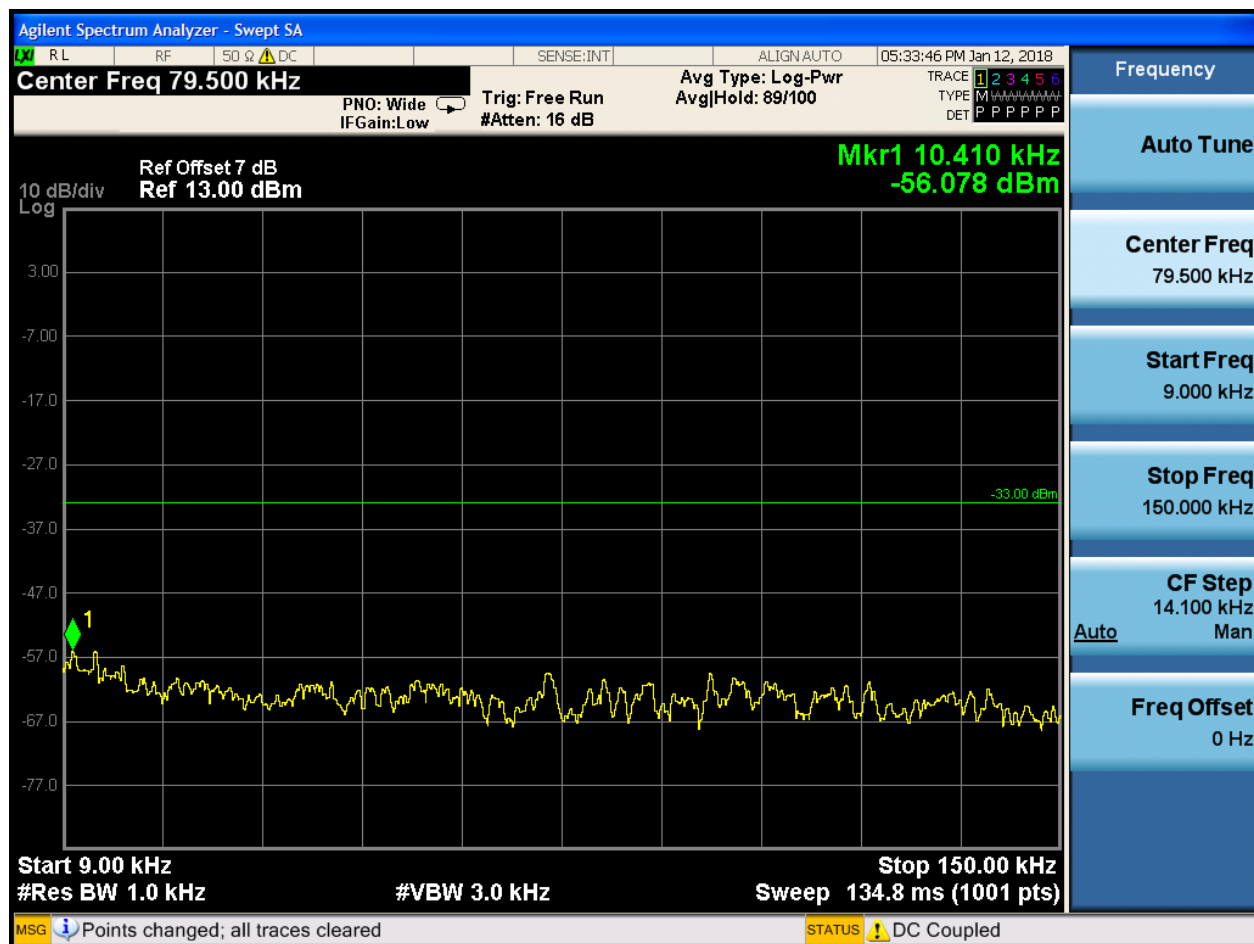


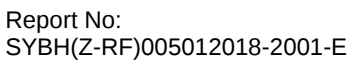


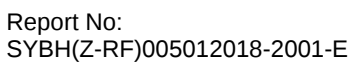


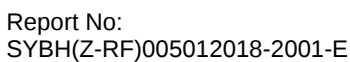
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0





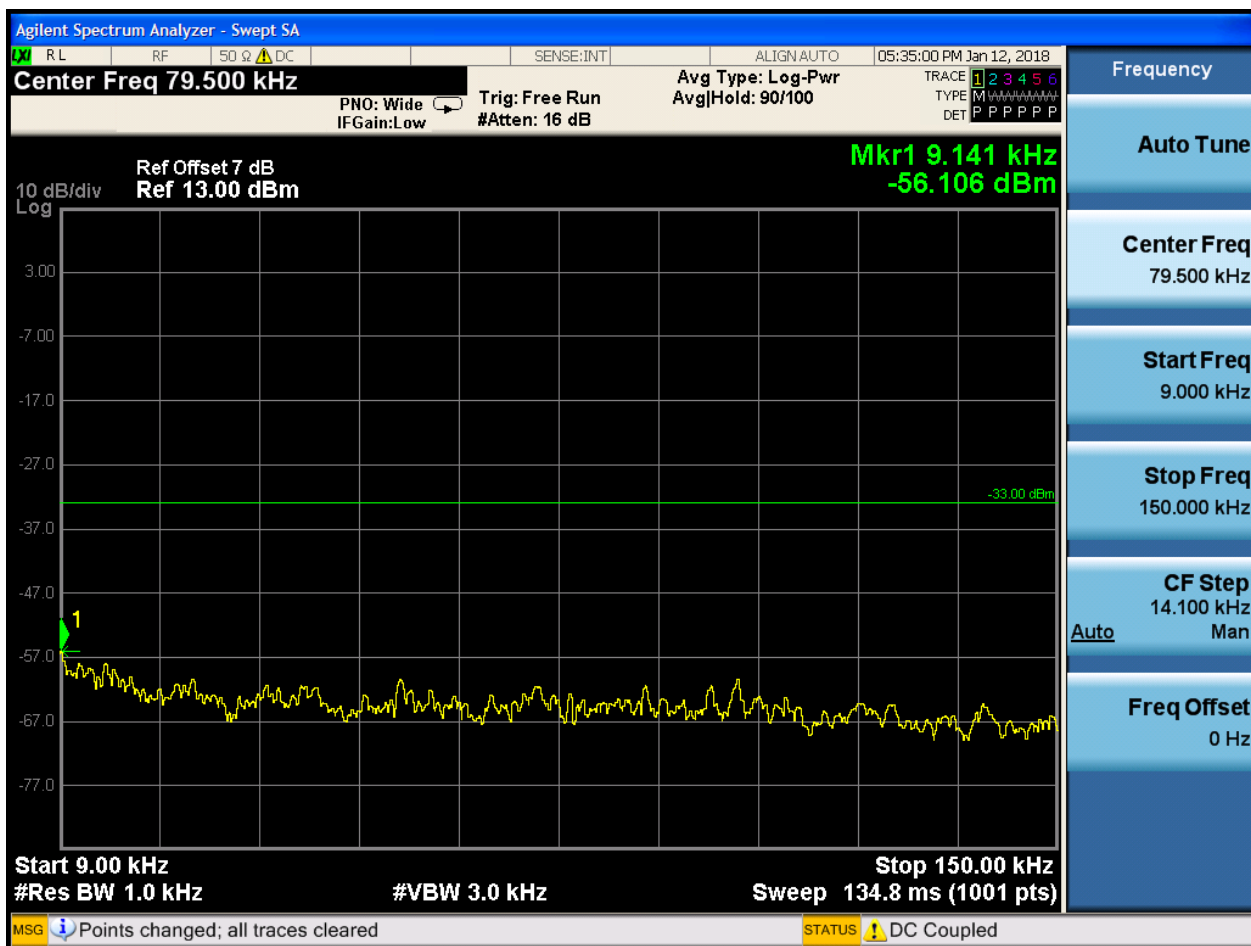


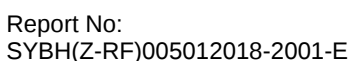


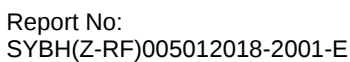


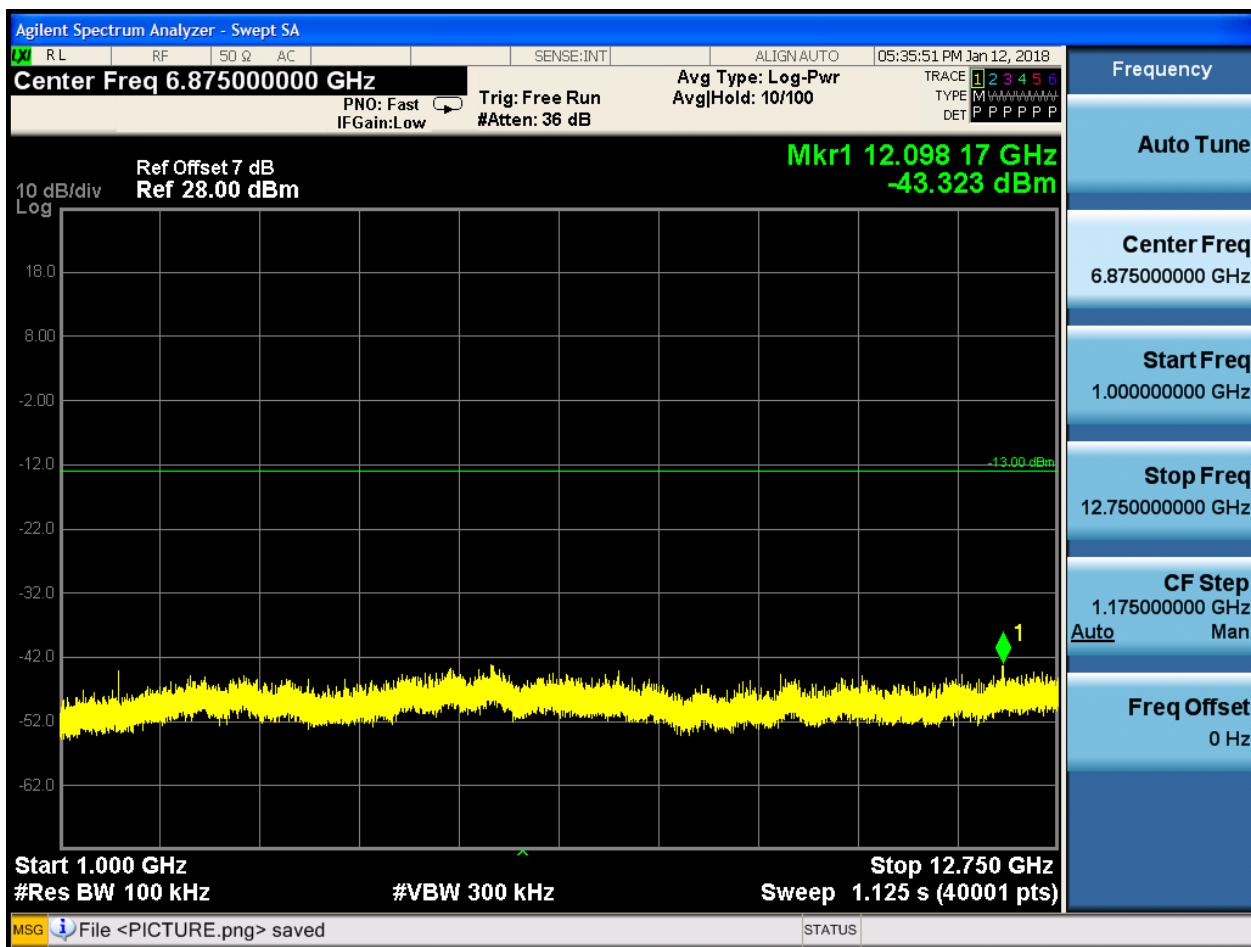
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







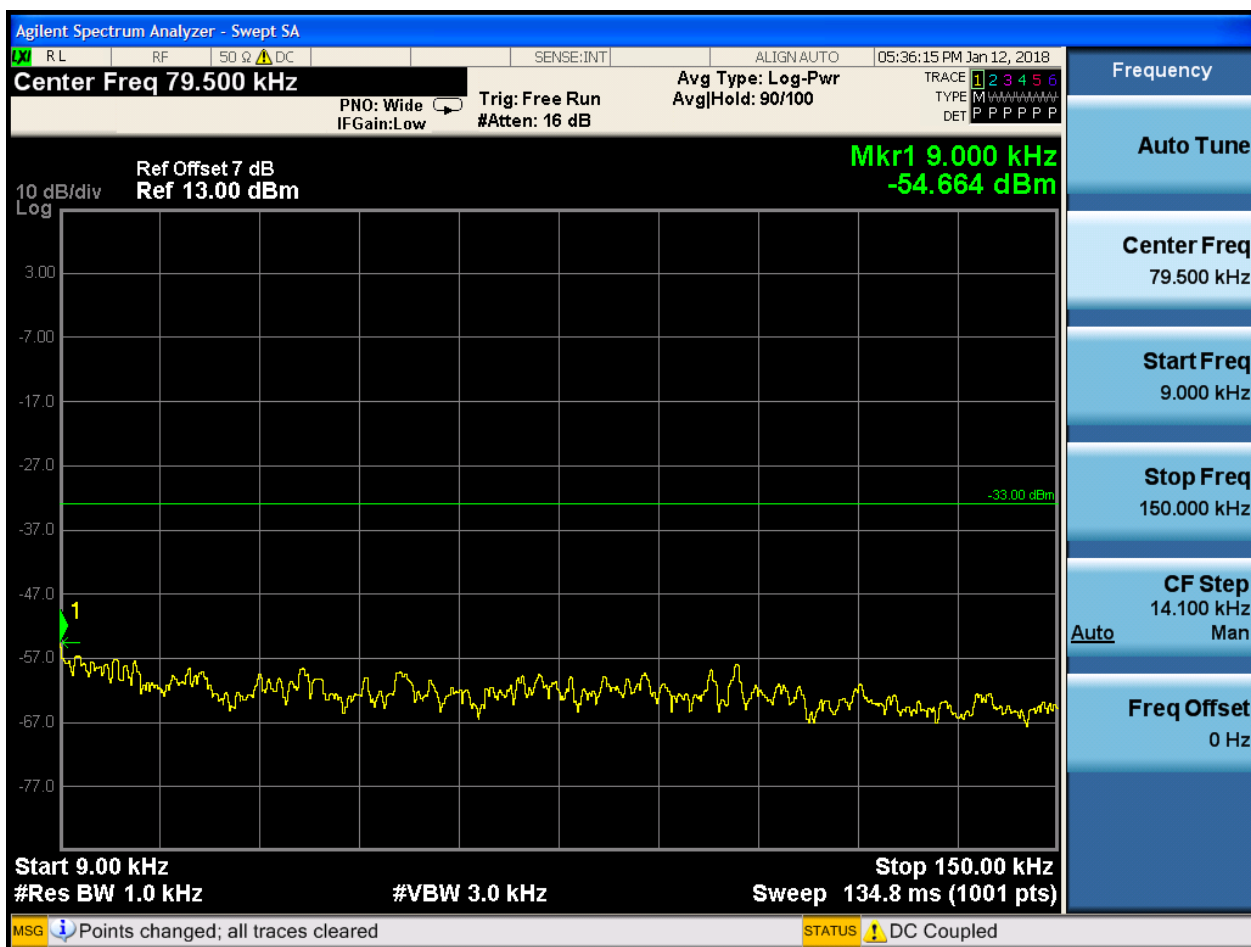


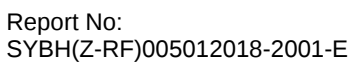


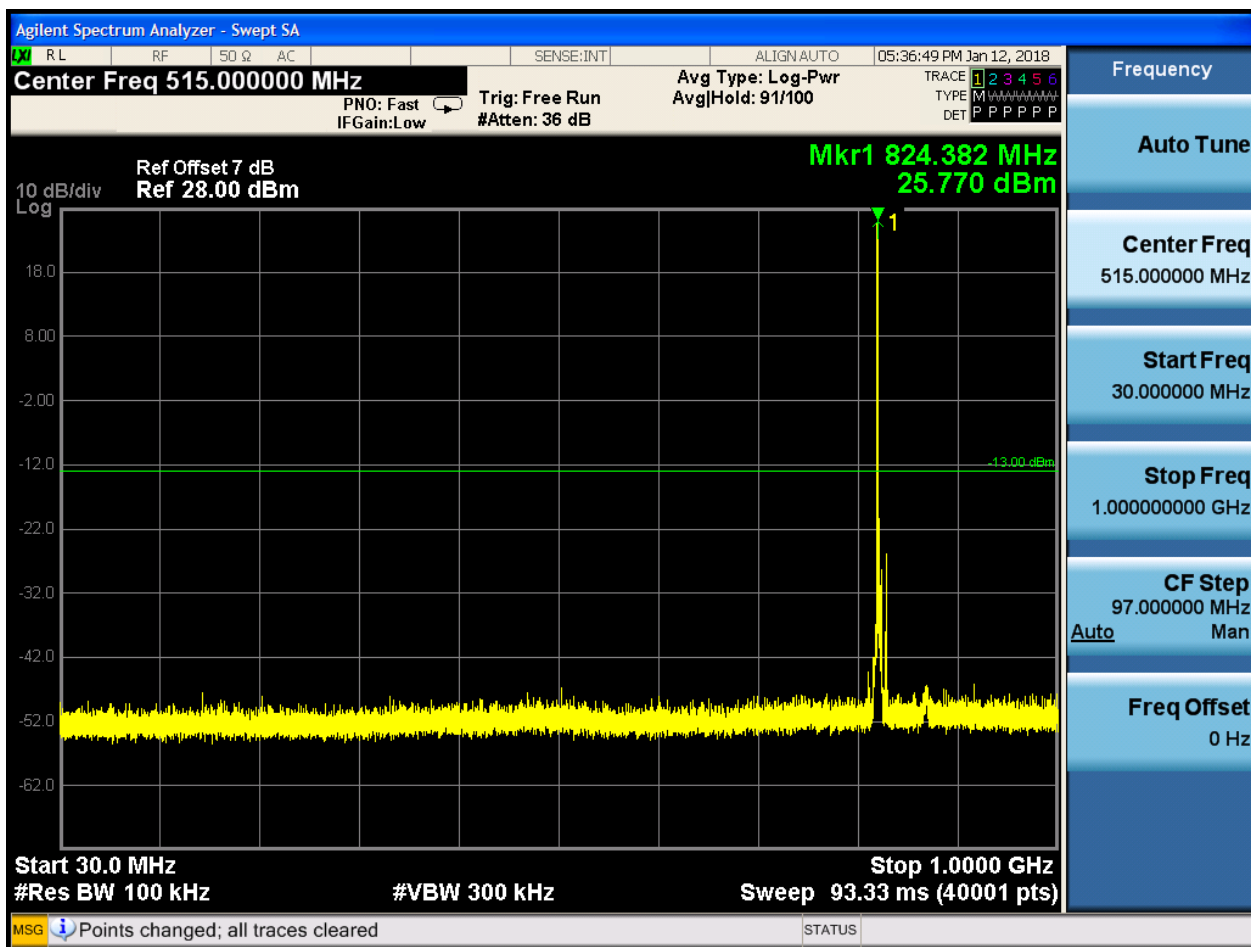
6.1.1.2.3 Test Bandwidth = 5

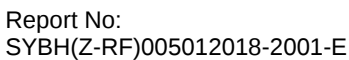
6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0





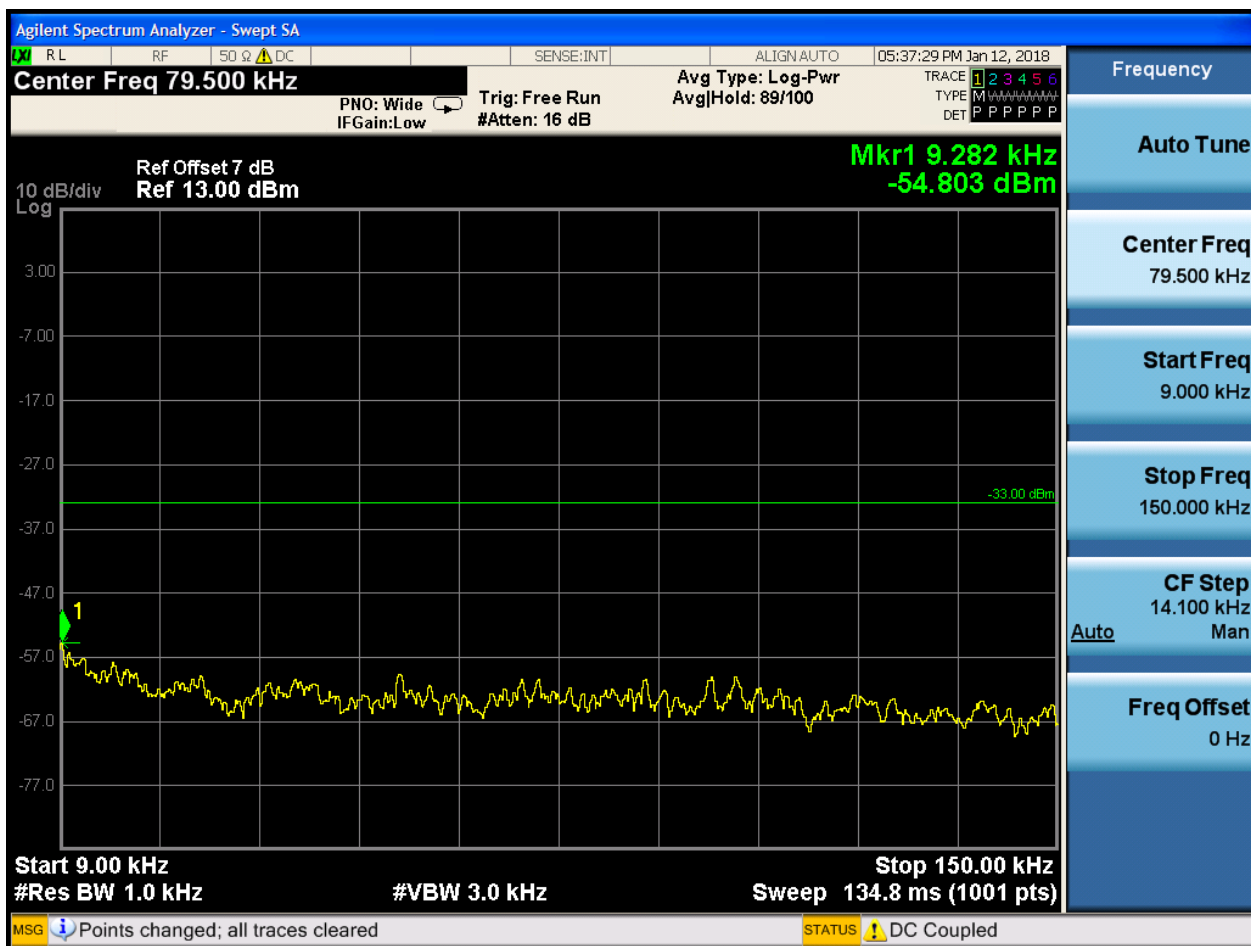


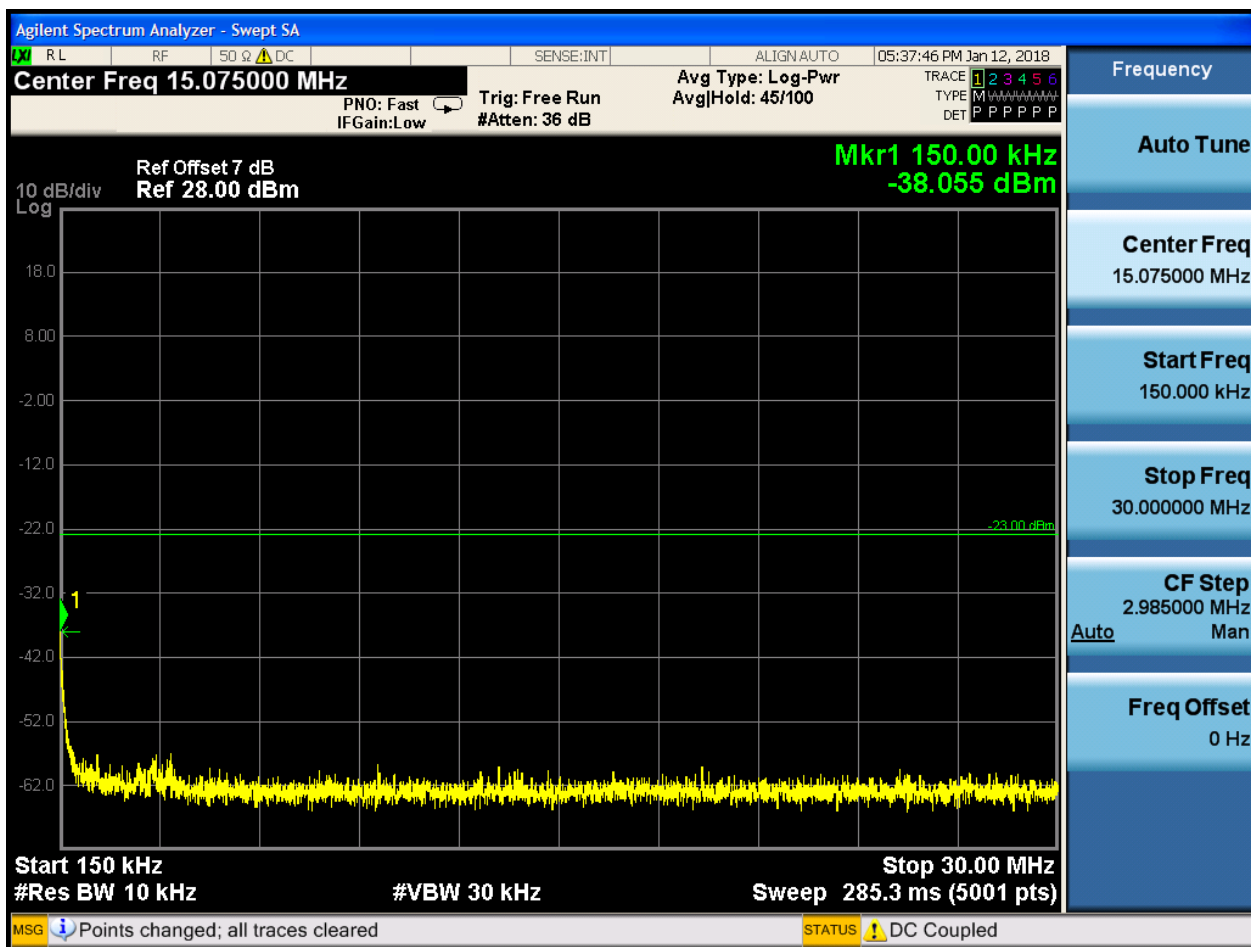


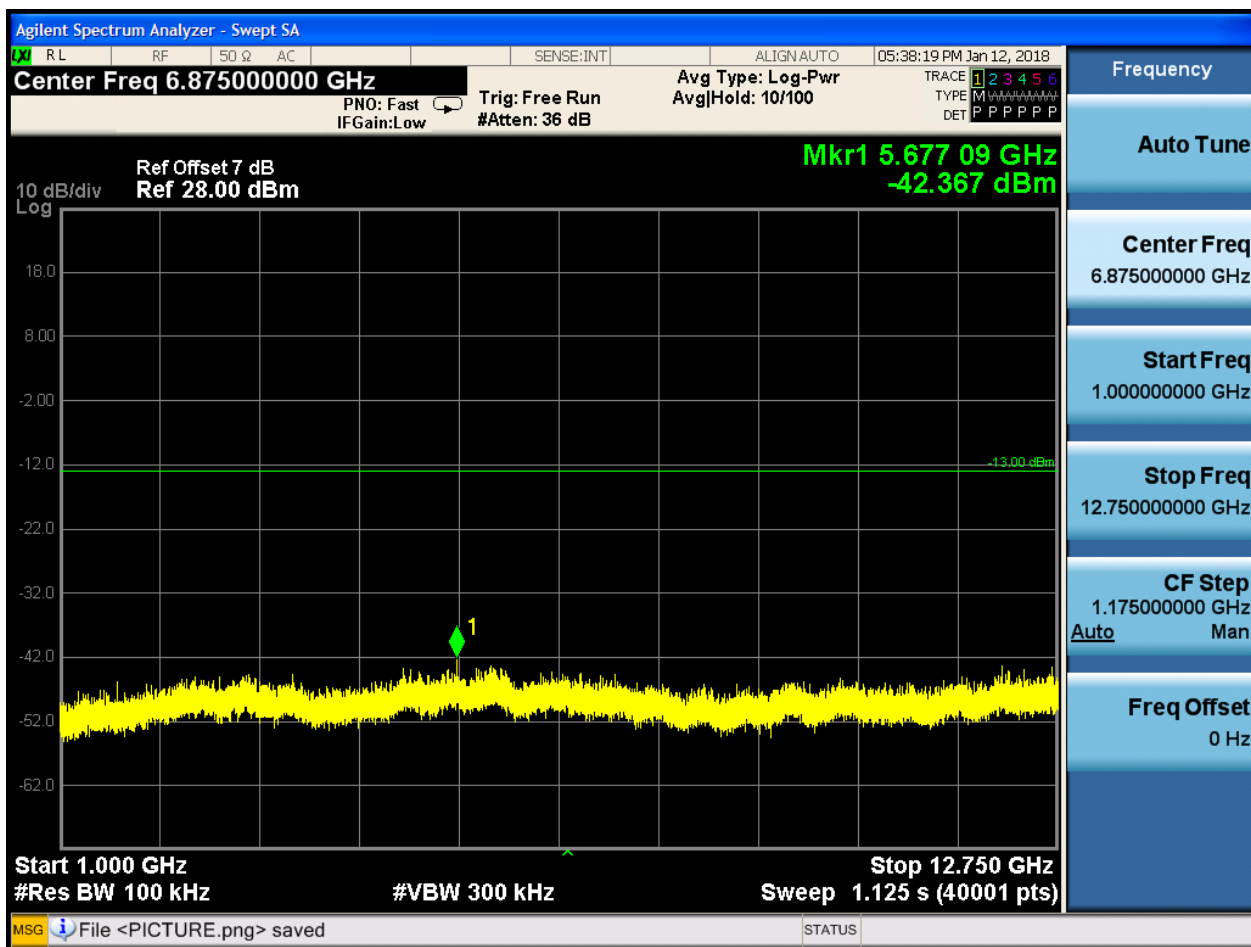


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0

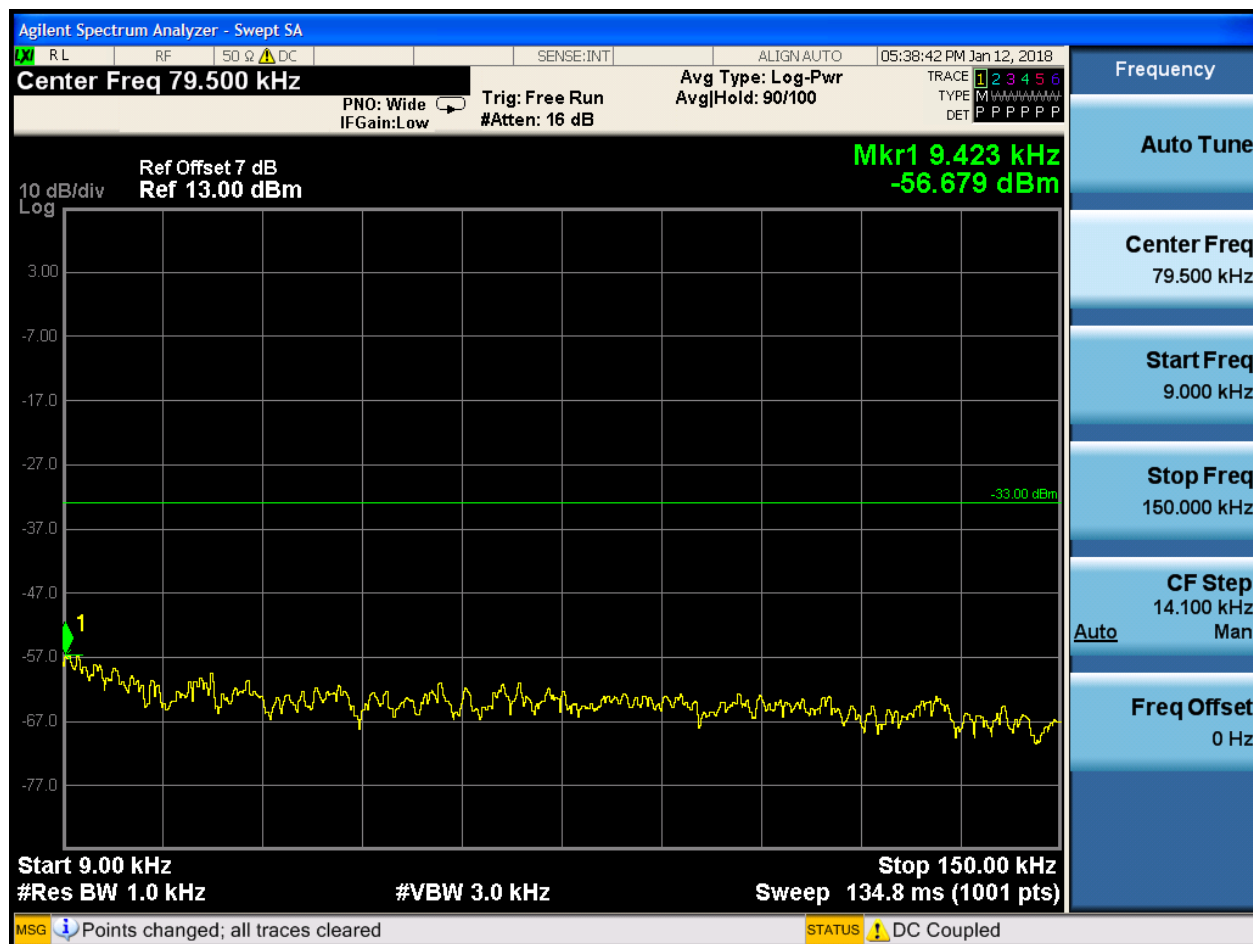


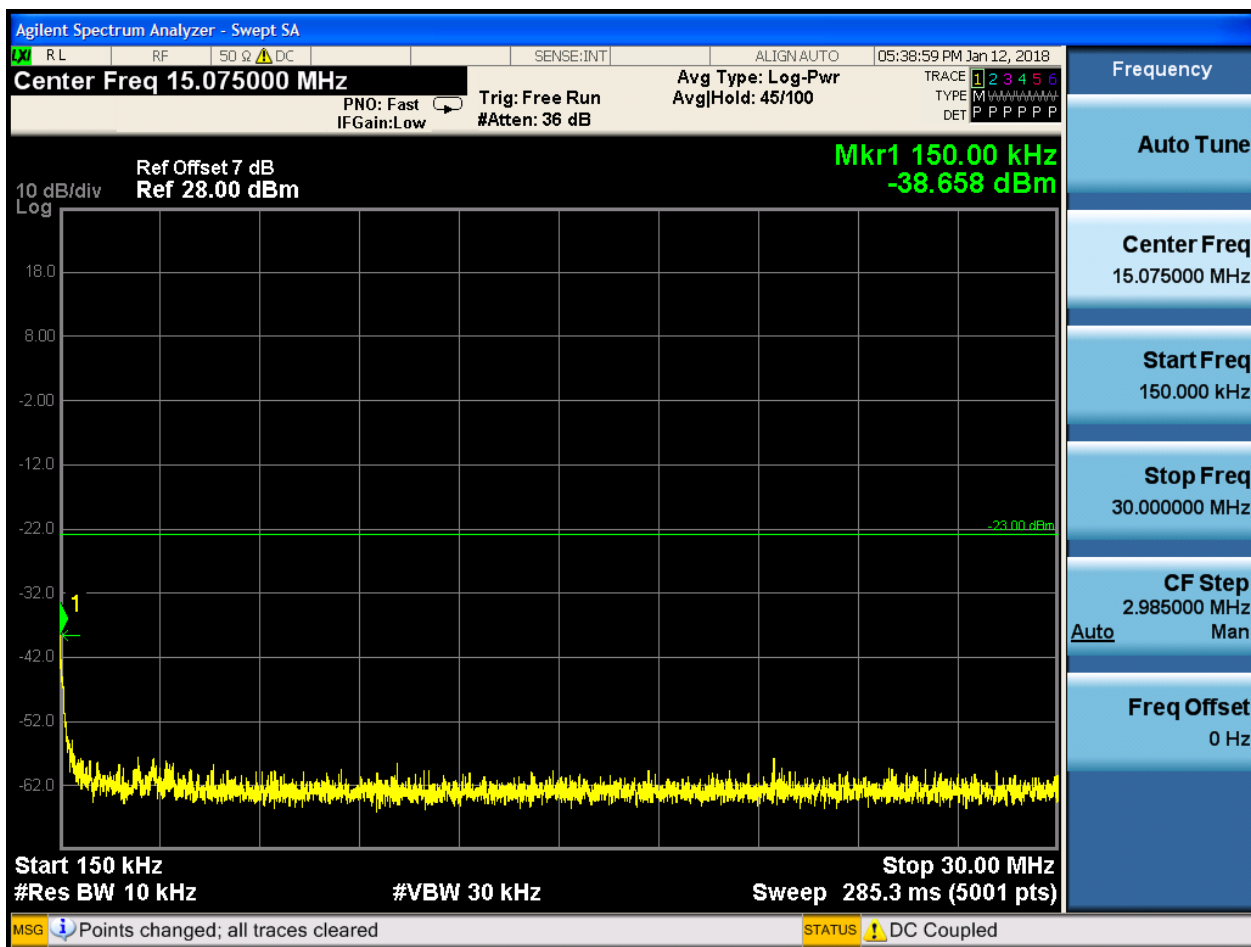


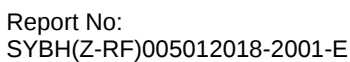


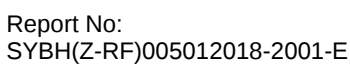
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







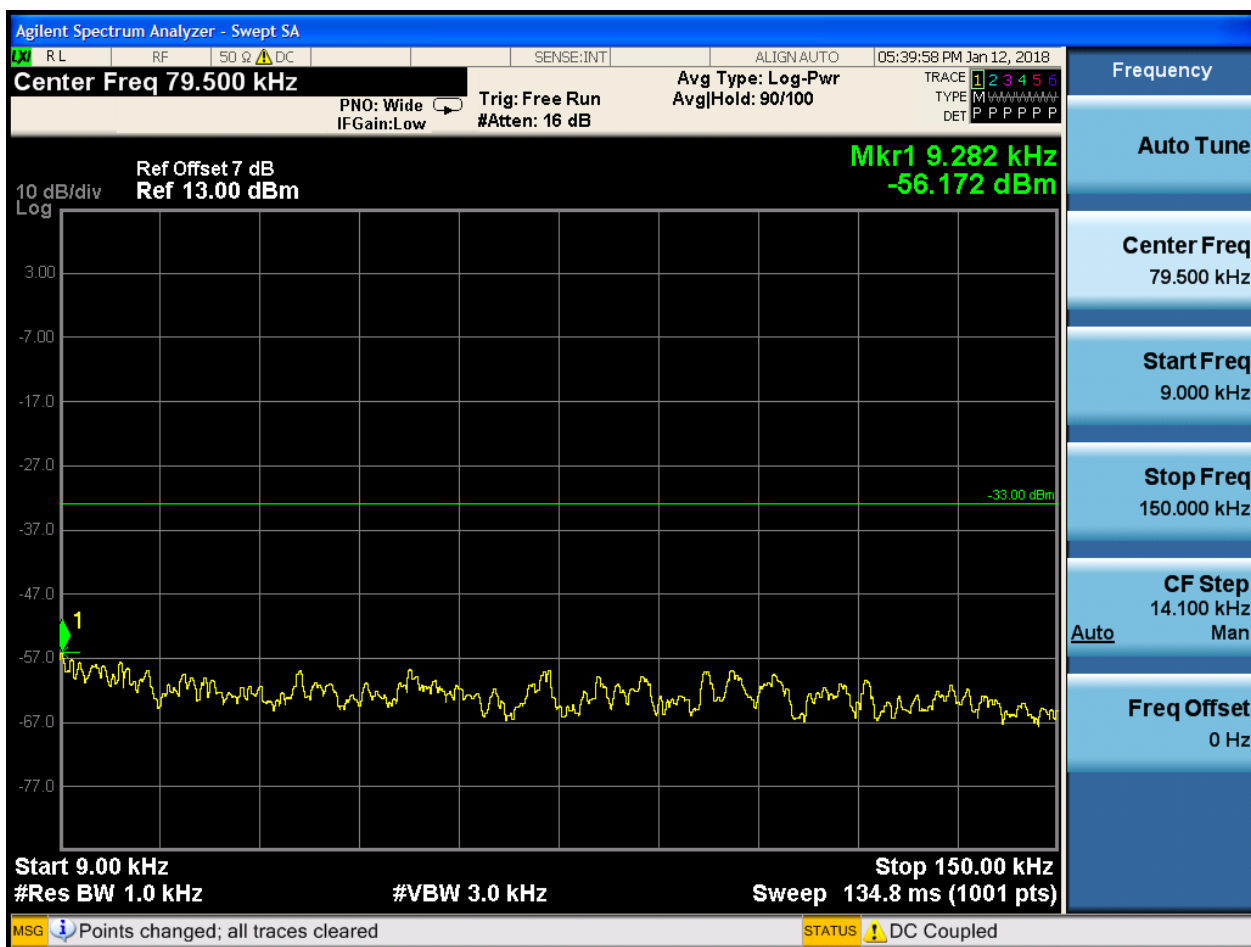


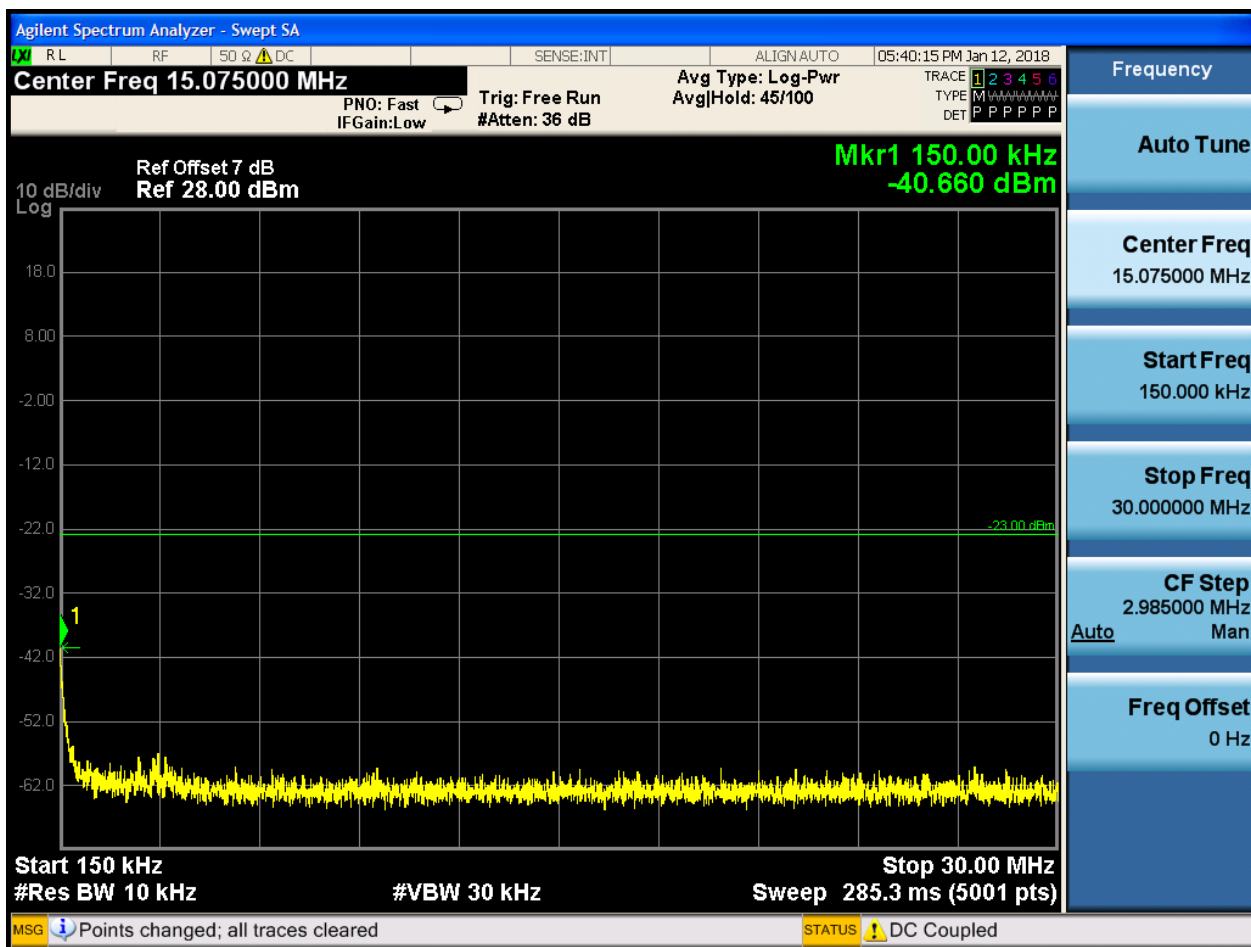


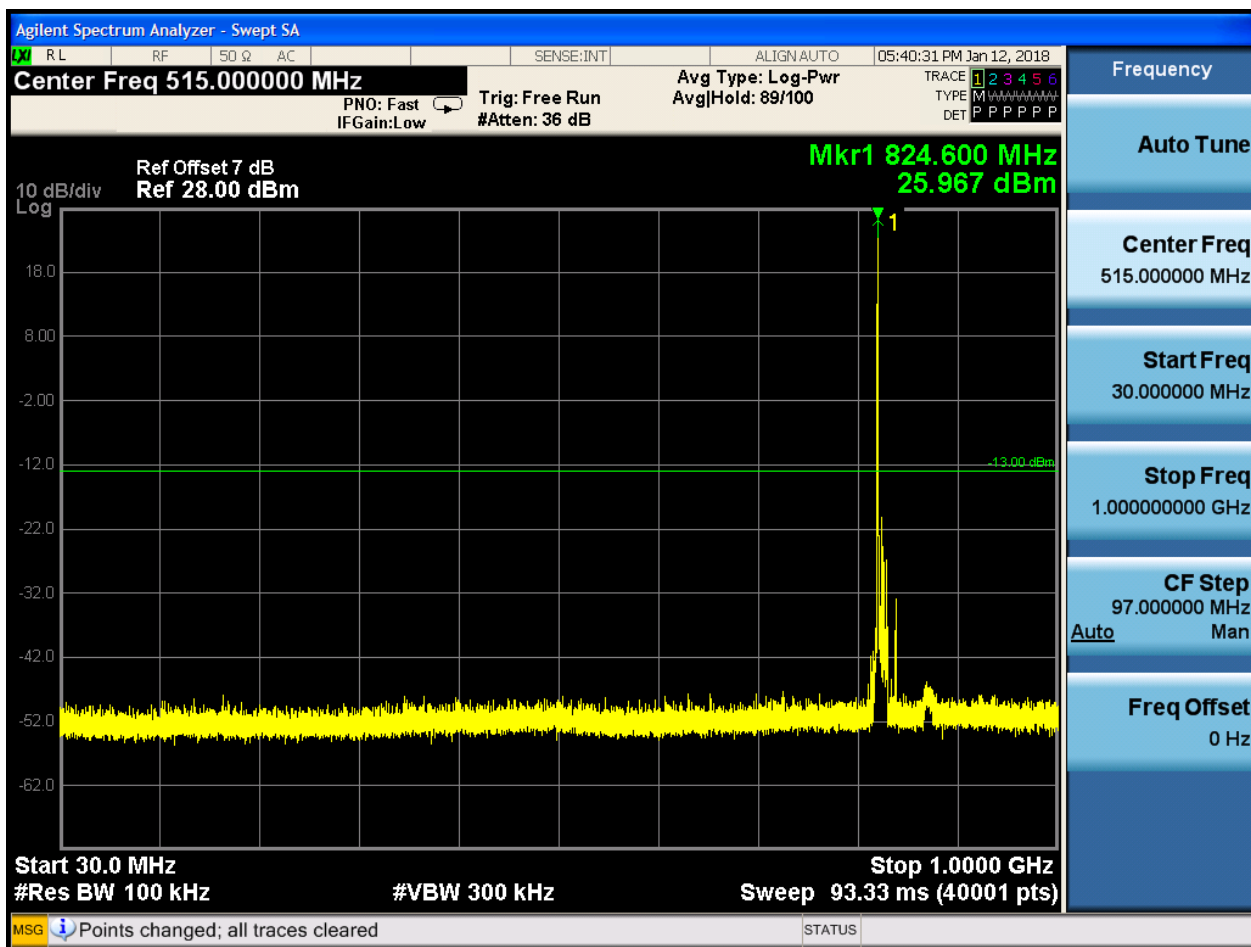
6.1.1.2.4 Test Bandwidth = 10

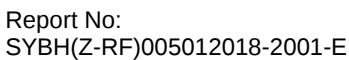
6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



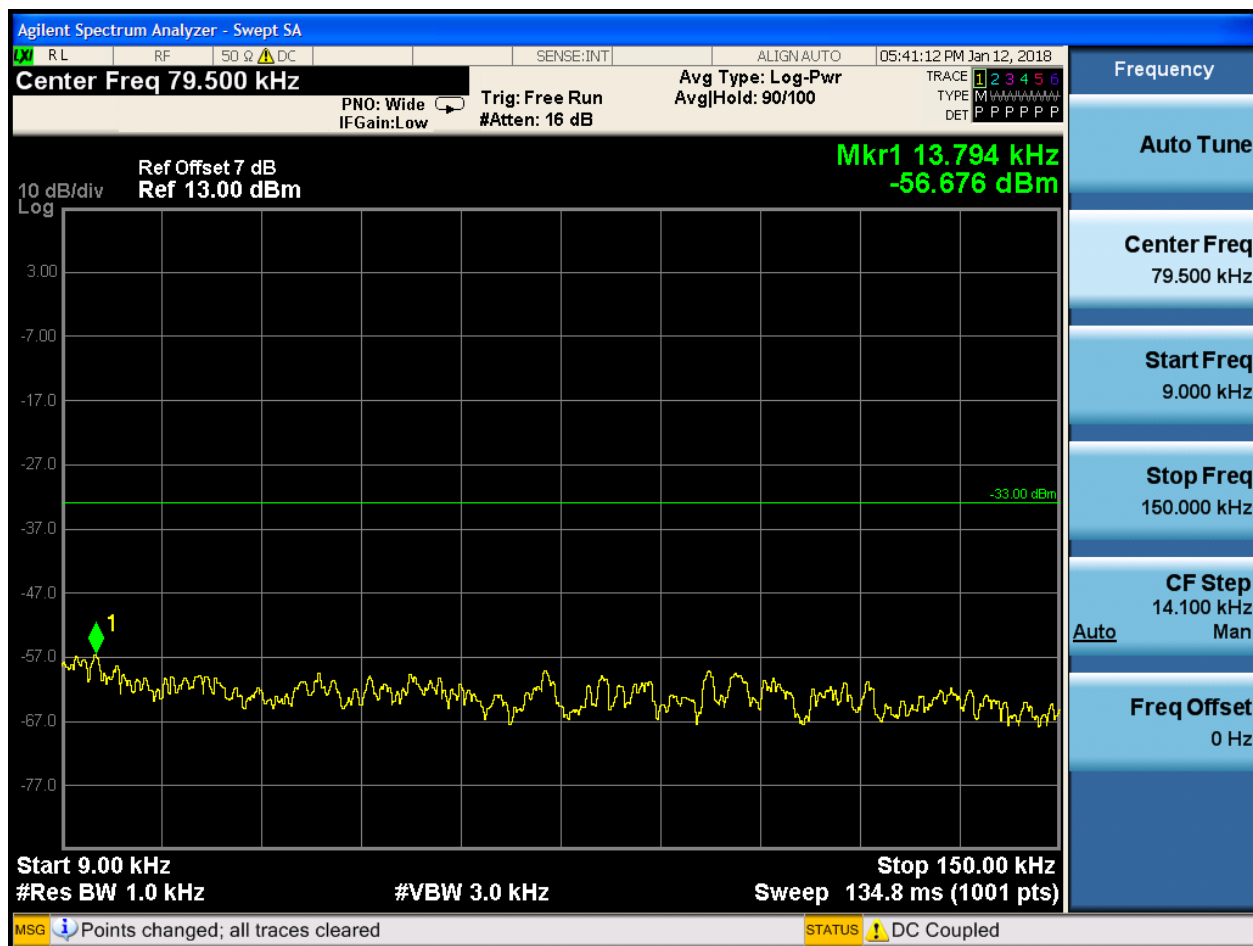


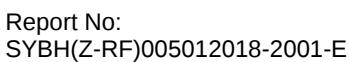


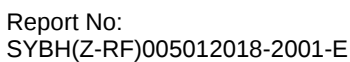


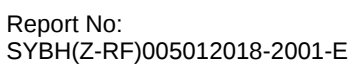
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



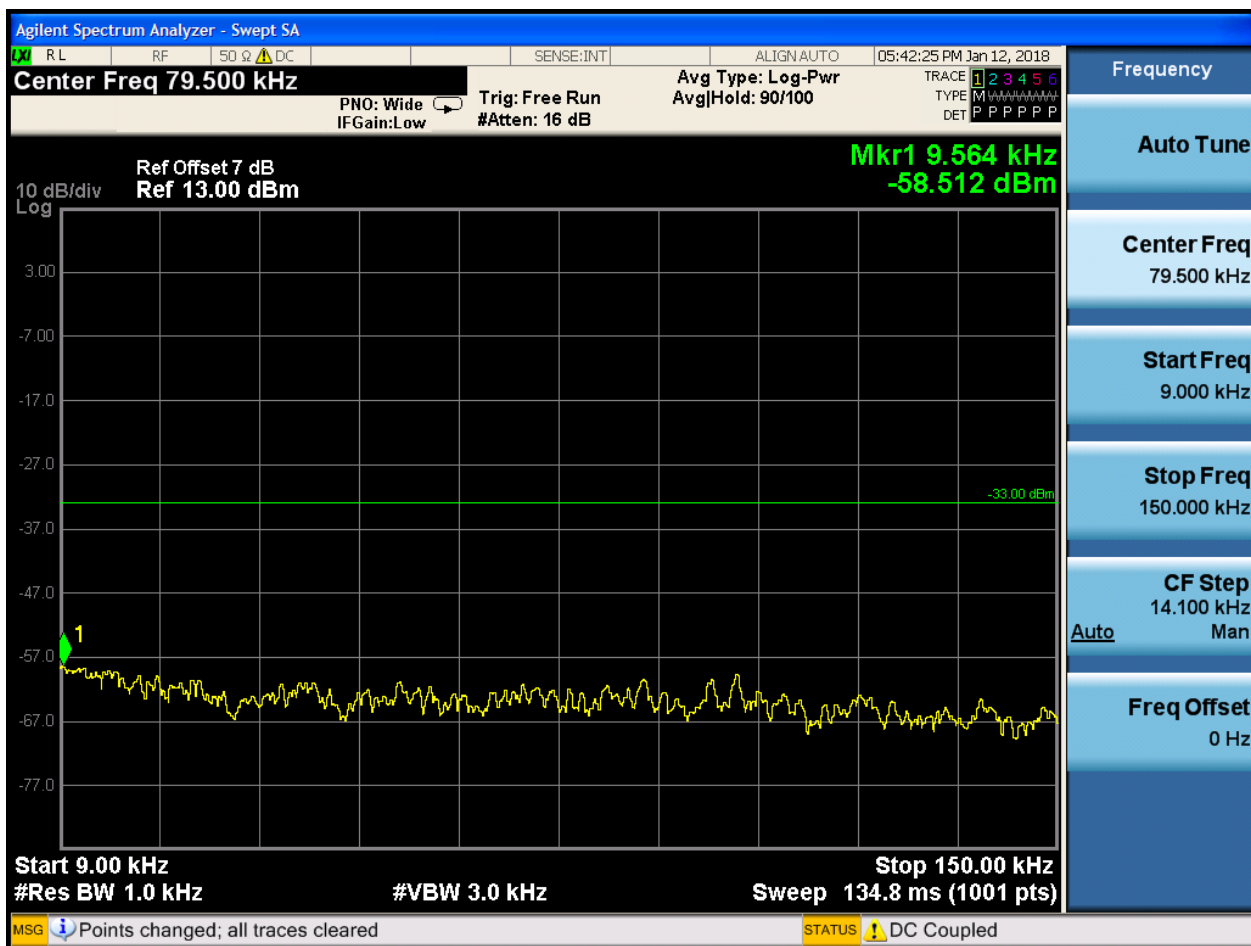


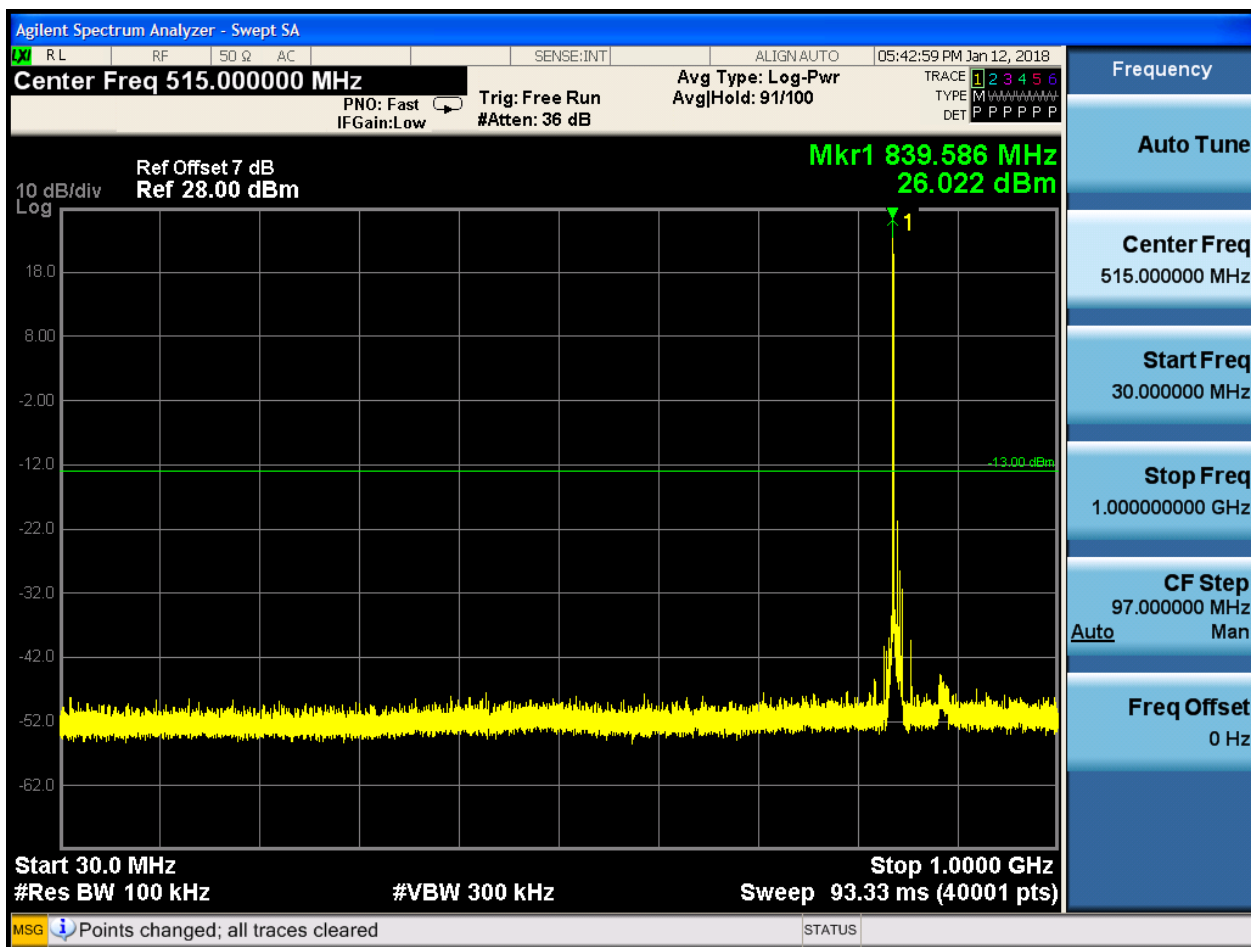


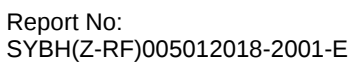


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

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

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

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

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

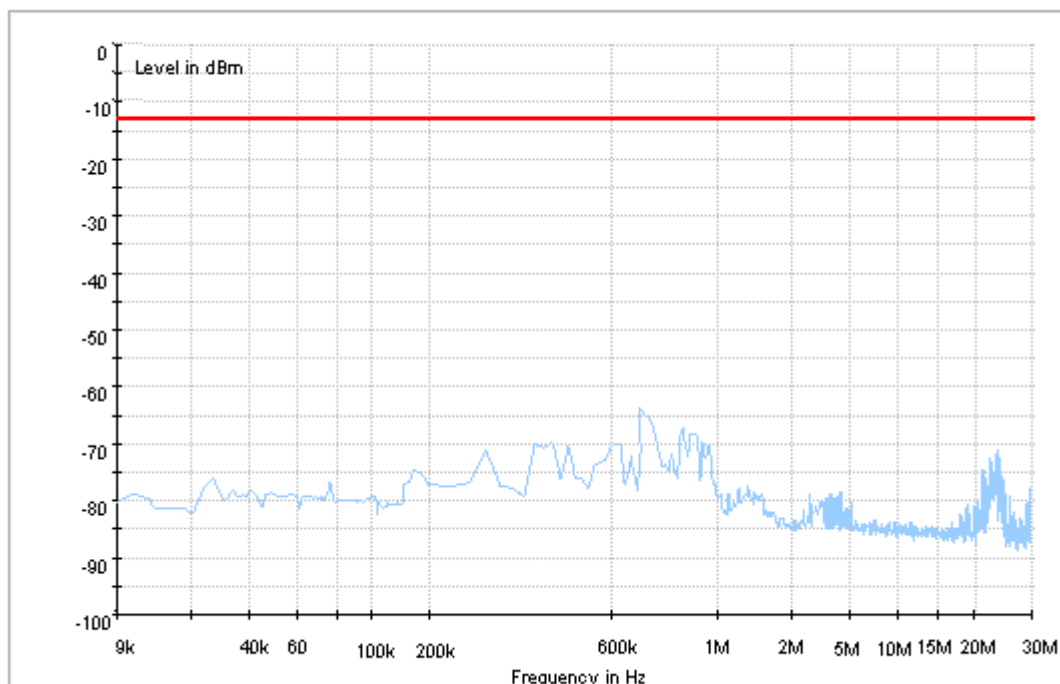
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

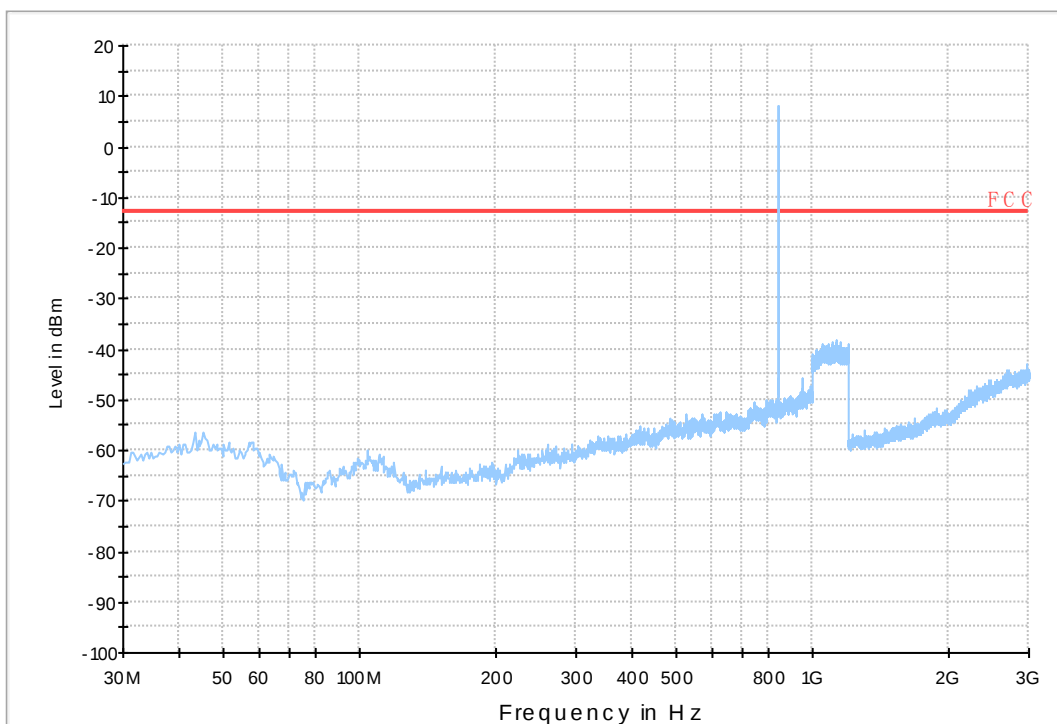
7.1 For LTE

7.1.1 Test Band = BAND5

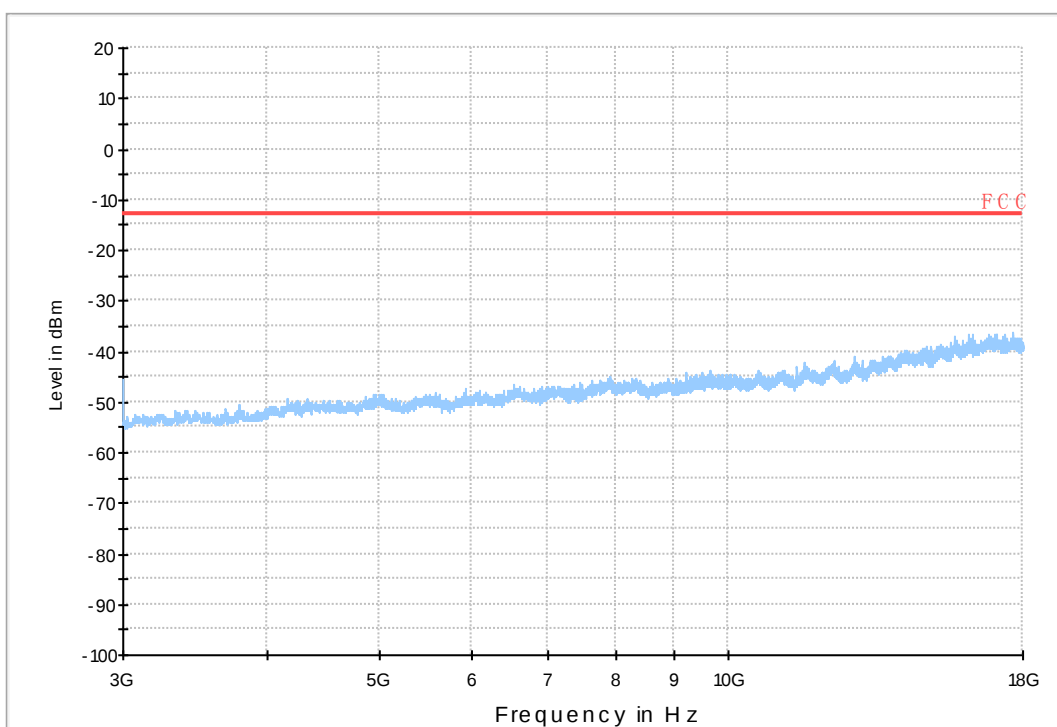
7.1.1.1 Test Bandwidth = 1.4



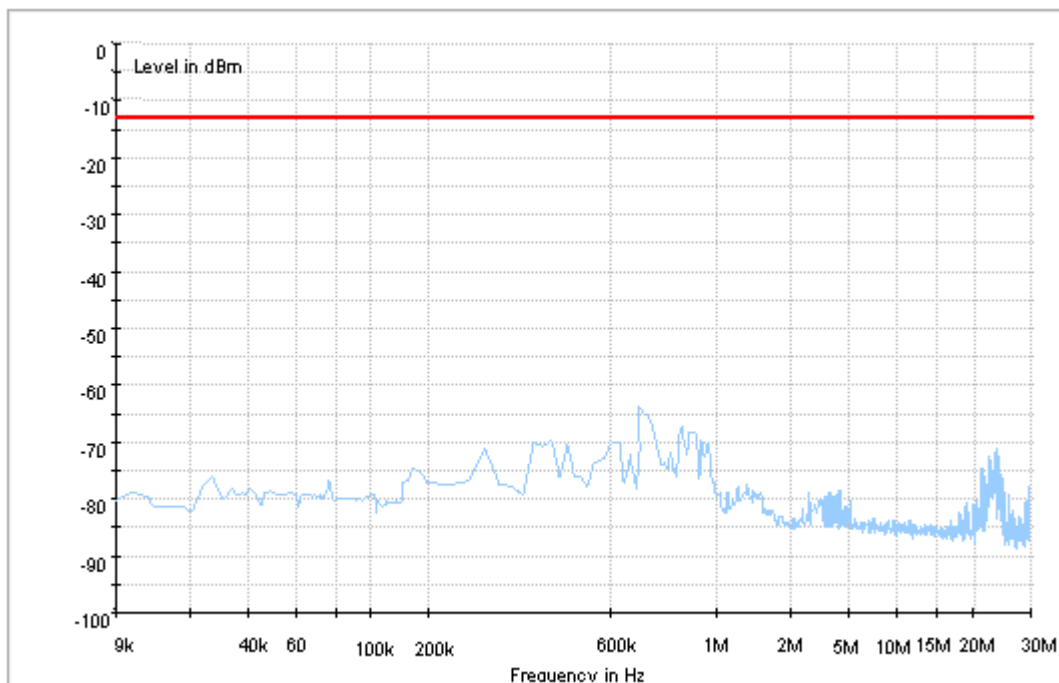
Copy of RSE-TX-DIRECTOR BELOW 1G_L



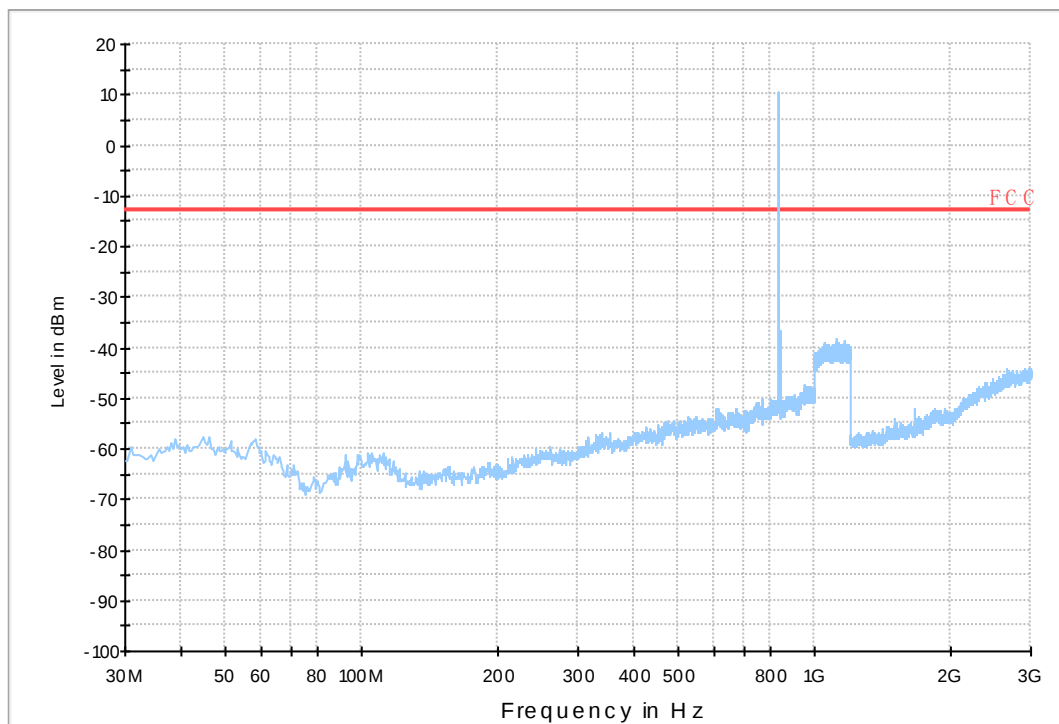
Copy of RSE-TX-DIRECTOR BELOW 1G_H



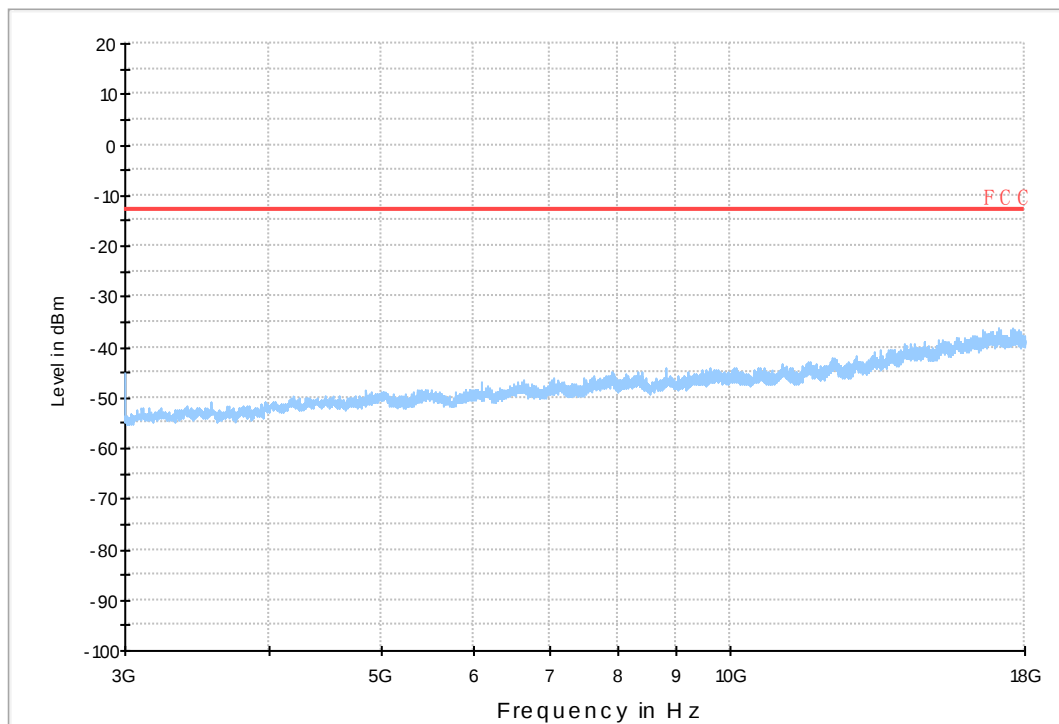
7.1.1.3 Test Bandwidth = 10



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
BAND5	LTE/TM1	1.4	LCH	TN	VL	-3.32	-0.00403	PASS
					VN	-3.35	-0.00406	PASS
					VH	-2.00	-0.00243	PASS
			MCH	TN	VL	-0.46	-0.00055	PASS
					VN	0.84	0.001	PASS
					VH	0.94	0.00112	PASS
			HCH	TN	VL	-0.80	-0.00094	PASS
					VN	-0.63	-0.00074	PASS
					VH	12.22	0.01441	PASS
		3	LCH	TN	VL	-0.56	-0.00068	PASS
					VN	-1.54	-0.00187	PASS
					VH	-0.69	-0.00084	PASS
			MCH	TN	VL	0.20	0.00024	PASS
					VN	-0.14	-0.00017	PASS
					VH	0.49	0.00059	PASS
			HCH	TN	VL	-1.57	-0.00185	PASS
					VN	-1.87	-0.00221	PASS
					VH	-0.44	-0.00052	PASS
		5	LCH	TN	VL	-1.89	-0.00229	PASS
					VN	-0.74	-0.0009	PASS
					VH	-1.34	-0.00162	PASS
			MCH	TN	VL	-3.28	-0.00392	PASS
					VN	-3.08	-0.00368	PASS
					VH	-1.06	-0.00127	PASS
			HCH	TN	VL	-2.42	-0.00286	PASS
					VN	2.46	0.00291	PASS
					VH	-1.32	-0.00156	PASS
		10	LCH	TN	VL	-0.04	-0.00005	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-0.80	-0.00097	PASS
					VH	-0.60	-0.00072	PASS
			MCH	TN	VL	-0.41	-0.00049	PASS
					VN	0.56	0.00067	PASS
					VH	-2.32	-0.00277	PASS
			HCH	TN	VL	-0.10	-0.00012	PASS
					VN	4.52	0.00536	PASS
					VH	7.18	0.00851	PASS
	LTE/TM2	1.4	LCH	TN	VL	-2.30	-0.00279	PASS
					VN	-2.88	-0.00349	PASS
					VH	-2.00	-0.00243	PASS
			MCH	TN	VL	-0.69	-0.00082	PASS
					VN	-0.79	-0.00094	PASS
					VH	-1.53	-0.00183	PASS
			HCH	TN	VL	1.07	0.00126	PASS
					VN	-1.30	-0.00153	PASS
					VH	-0.11	-0.00013	PASS
		3	LCH	TN	VL	-2.53	-0.00306	PASS
					VN	-2.10	-0.00254	PASS
					VH	-2.03	-0.00246	PASS
			MCH	TN	VL	-1.22	-0.00146	PASS
					VN	-2.55	-0.00305	PASS
					VH	-0.99	-0.00118	PASS
			HCH	TN	VL	-0.97	-0.00114	PASS
					VN	-1.85	-0.00218	PASS
					VH	-2.92	-0.00345	PASS
		5	LCH	TN	VL	-3.06	-0.0037	PASS
					VN	-3.02	-0.00365	PASS
					VH	-1.79	-0.00217	PASS
			MCH	TN	VL	-1.57	-0.00188	PASS
					VN	-2.09	-0.0025	PASS
					VH	-1.66	-0.00198	PASS
			HCH	TN	VL	0.86	0.00102	PASS
					VN	-1.57	-0.00185	PASS
					VH	-2.00	-0.00236	PASS
		10	LCH	TN	VL	-0.70	-0.00084	PASS
					VN	-0.93	-0.00112	PASS
					VH	-1.09	-0.00131	PASS
			MCH	TN	VL	-4.43	-0.0053	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-2.53	-0.00302	PASS
					VH	-1.73	-0.00207	PASS
			HCH	TN	VL	-0.64	-0.00076	PASS
					VN	-1.14	-0.00135	PASS
					VH	-1.62	-0.00192	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
BAND5	LTE/TM1	1.4	LCH	VN	-30	1.00	0.00121	PASS
					-20	0.83	0.00101	PASS
					-10	0.06	0.00007	PASS
					0	-0.57	-0.00069	PASS
					10	-3.00	-0.00364	PASS
					20	0.16	0.00019	PASS
					30	-1.40	-0.0017	PASS
					40	-0.19	-0.00023	PASS
					50	-0.93	-0.00113	PASS
			MCH	VN	-30	2.37	0.00283	PASS
					-20	0.99	0.00118	PASS
					-10	2.99	0.00357	PASS
					0	0.16	0.00019	PASS
					10	-0.62	-0.00074	PASS
					20	-0.49	-0.00059	PASS
					30	0.34	0.00041	PASS
					40	-1.54	-0.00184	PASS
					50	3.06	0.00366	PASS
			HCH	VN	-30	0.74	0.00087	PASS
					-20	-1.03	-0.00121	PASS
					-10	-1.52	-0.00179	PASS
					0	-0.09	-0.00011	PASS
					10	-0.59	-0.0007	PASS
					20	1.20	0.00141	PASS
					30	-1.14	-0.00134	PASS
					40	-0.16	-0.00019	PASS
					50	1.32	0.00156	PASS
		3	LCH	VN	-30	1.75	0.00212	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt..	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	0.53	0.00064	PASS
					-10	-1.49	-0.0018	PASS
					0	-1.29	-0.00156	PASS
					10	-1.12	-0.00136	PASS
					20	-0.30	-0.00036	PASS
					30	-0.62	-0.00075	PASS
					40	0.41	0.0005	PASS
					50	0.86	0.00104	PASS
			MCH	VN	-30	0.93	0.00111	PASS
					-20	-1.10	-0.00132	PASS
					-10	-1.24	-0.00148	PASS
					0	-0.64	-0.00077	PASS
					10	-1.06	-0.00127	PASS
					20	-1.63	-0.00195	PASS
					30	-2.72	-0.00325	PASS
					40	0.31	0.00037	PASS
					50	8.33	0.00996	PASS
			HCH	VN	-30	0.17	0.0002	PASS
					-20	4.98	0.00588	PASS
					-10	-1.09	-0.00129	PASS
					0	-4.16	-0.00491	PASS
					10	-1.59	-0.00188	PASS
					20	-1.72	-0.00203	PASS
					30	-0.73	-0.00086	PASS
					40	-2.32	-0.00274	PASS
					50	-0.53	-0.00063	PASS
		5	LCH	VN	-30	-1.42	-0.00172	PASS
					-20	-2.49	-0.00301	PASS
					-10	-1.44	-0.00174	PASS
					0	-2.60	-0.00315	PASS
					10	-2.05	-0.00248	PASS
					20	-1.07	-0.00129	PASS
					30	-1.67	-0.00202	PASS
					40	-1.69	-0.00204	PASS
					50	0.11	0.00013	PASS
			MCH	VN	-30	-2.56	-0.00306	PASS
					-20	-1.36	-0.00163	PASS
					-10	-1.60	-0.00191	PASS
					0	-2.47	-0.00295	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt..	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-1.96	-0.00234	PASS
					20	-1.93	-0.00231	PASS
					30	-0.36	-0.00043	PASS
					40	-2.06	-0.00246	PASS
					50	-0.93	-0.00111	PASS
			HCH	VN	-30	-2.33	-0.00275	PASS
					-20	-1.85	-0.00219	PASS
					-10	0.01	0.00001	PASS
					0	-0.89	-0.00105	PASS
					10	0.01	0.00001	PASS
					20	-1.06	-0.00125	PASS
					30	0.46	0.00054	PASS
					40	-0.44	-0.00052	PASS
					50	0.23	0.00027	PASS
		10	LCH	VN	-30	-0.31	-0.00037	PASS
					-20	-1.66	-0.002	PASS
					-10	-0.74	-0.00089	PASS
					0	-1.89	-0.00228	PASS
					10	-1.26	-0.00152	PASS
					20	-1.36	-0.00164	PASS
					30	-0.79	-0.00095	PASS
					40	-1.43	-0.00172	PASS
					50	-1.27	-0.00153	PASS
			MCH	VN	-30	-2.35	-0.00281	PASS
					-20	-2.30	-0.00275	PASS
					-10	-3.00	-0.00359	PASS
					0	-2.25	-0.00269	PASS
					10	-1.50	-0.00179	PASS
					20	-2.33	-0.00279	PASS
					30	-1.73	-0.00207	PASS
					40	-1.72	-0.00206	PASS
					50	-1.89	-0.00226	PASS
			HCH	VN	-30	-2.82	-0.00334	PASS
					-20	-2.13	-0.00252	PASS
					-10	-3.66	-0.00434	PASS
					0	-1.46	-0.00173	PASS
					10	-2.78	-0.00329	PASS
					20	-6.37	-0.00755	PASS
					30	-4.63	-0.00549	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt..	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	1.4			40	-0.54	-0.00064	PASS
					50	-3.50	-0.00415	PASS
			LCH	VN	-30	-1.37	-0.00166	PASS
					-20	-0.20	-0.00024	PASS
					-10	-2.29	-0.00278	PASS
					0	-1.86	-0.00226	PASS
					10	-1.33	-0.00161	PASS
					20	0.04	0.00005	PASS
					30	-0.87	-0.00105	PASS
					40	-0.82	-0.00099	PASS
					50	-3.85	-0.00467	PASS
			MCH	VN	-30	0.53	0.00063	PASS
					-20	-2.27	-0.00271	PASS
					-10	-0.59	-0.00071	PASS
					0	-4.01	-0.00479	PASS
					10	-0.74	-0.00088	PASS
					20	-1.46	-0.00175	PASS
					30	-0.03	-0.00004	PASS
					40	-3.00	-0.00359	PASS
					50	-1.72	-0.00206	PASS
			HCH	VN	-30	1.10	0.0013	PASS
					-20	0.79	0.00093	PASS
					-10	0.94	0.00111	PASS
					0	-1.93	-0.00228	PASS
					10	0.10	0.00012	PASS
					20	-1.50	-0.00177	PASS
					30	-0.84	-0.00099	PASS
					40	-0.73	-0.00086	PASS
					50	0.06	0.00007	PASS
		3	LCH	VN	-30	1.36	0.00165	PASS
					-20	0.90	0.00109	PASS
					-10	-1.77	-0.00214	PASS
					0	-2.57	-0.00311	PASS
					10	-0.57	-0.00069	PASS
					20	-2.52	-0.00305	PASS
					30	-2.02	-0.00245	PASS
					40	-0.97	-0.00118	PASS
					50	-0.73	-0.00088	PASS
			MCH	VN	-30	-1.96	-0.00234	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt..	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-2.62	-0.00313	PASS
					-10	-1.39	-0.00166	PASS
					0	-2.53	-0.00302	PASS
					10	-0.89	-0.00106	PASS
					20	-1.26	-0.00151	PASS
					30	-2.73	-0.00326	PASS
					40	-2.35	-0.00281	PASS
					50	-2.47	-0.00295	PASS
			HCH	VN	-30	-3.52	-0.00415	PASS
					-20	-0.79	-0.00093	PASS
					-10	-2.23	-0.00263	PASS
					0	-3.58	-0.00422	PASS
					10	-1.36	-0.0016	PASS
					20	-2.82	-0.00333	PASS
					30	-1.75	-0.00206	PASS
					40	-1.96	-0.00231	PASS
					50	-2.52	-0.00297	PASS
		5	LCH	VN	-30	-2.37	-0.00287	PASS
					-20	-3.53	-0.00427	PASS
					-10	-1.16	-0.0014	PASS
					0	-1.77	-0.00214	PASS
					10	-1.23	-0.00149	PASS
					20	-1.04	-0.00126	PASS
					30	-0.67	-0.00081	PASS
					40	-1.69	-0.00204	PASS
					50	-1.10	-0.00133	PASS
			MCH	VN	-30	-1.26	-0.00151	PASS
					-20	-1.54	-0.00184	PASS
					-10	-0.24	-0.00029	PASS
					0	-1.90	-0.00227	PASS
					10	-0.84	-0.001	PASS
					20	-1.04	-0.00124	PASS
					30	0.82	0.00098	PASS
					40	-0.82	-0.00098	PASS
					50	-0.57	-0.00068	PASS
			HCH	VN	-30	-0.93	-0.0011	PASS
					-20	-1.54	-0.00182	PASS
					-10	-2.73	-0.00323	PASS
					0	-0.67	-0.00079	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt..	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-0.31	-0.00037	PASS
					20	1.03	0.00122	PASS
					30	-5.25	-0.0062	PASS
					40	4.69	0.00554	PASS
					50	-1.00	-0.00118	PASS
		10	LCH	VN	-30	-0.74	-0.00089	PASS
					-20	-1.13	-0.00136	PASS
					-10	-1.16	-0.0014	PASS
					0	-1.12	-0.00135	PASS
					10	-1.54	-0.00186	PASS
					20	-0.96	-0.00116	PASS
					30	-1.27	-0.00153	PASS
					40	-0.10	-0.00012	PASS
					50	-0.11	-0.00013	PASS
			MCH	VN	-30	-0.73	-0.00087	PASS
					-20	-0.86	-0.00103	PASS
					-10	3.58	0.00428	PASS
					0	-0.86	-0.00103	PASS
					10	-1.29	-0.00154	PASS
					20	-1.19	-0.00142	PASS
					30	-0.90	-0.00108	PASS
					40	-1.29	-0.00154	PASS
					50	-1.86	-0.00222	PASS
			HCH	VN	-30	-1.29	-0.00153	PASS
					-20	-0.19	-0.00023	PASS
					-10	-0.70	-0.00083	PASS
					0	-1.80	-0.00213	PASS
					10	-1.00	-0.00118	PASS
					20	0.09	0.00011	PASS
					30	-2.66	-0.00315	PASS
					40	-1.40	-0.00166	PASS
					50	-1.69	-0.002	PASS

END