



Appendix for test report

1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
BAND5	LTE/TM1	1.4	LCH	RB1#0	23.07	19.37	38.5	PASS
				RB1#3	23.3	19.50	38.5	PASS
				RB1#5	23.08	19.13	38.5	PASS
				RB3#0	23.23	19.66	38.5	PASS
				RB3#2	23.3	19.62	38.5	PASS
				RB3#3	23.29	19.70	38.5	PASS
				RB6#0	22.14	18.42	38.5	PASS
			MCH	RB1#0	23.15	19.51	38.5	PASS
				RB1#3	23.26	19.71	38.5	PASS
				RB1#5	23.23	19.50	38.5	PASS
				RB3#0	23.15	19.22	38.5	PASS
				RB3#2	23.32	19.44	38.5	PASS
				RB3#3	23.28	19.66	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB6#0	22.13	18.32	38.5	PASS
			HCH	RB1#0	23.14	19.46	38.5	PASS
				RB1#3	23.09	19.48	38.5	PASS
				RB1#5	22.98	19.28	38.5	PASS
				RB3#0	23.08	19.24	38.5	PASS
				RB3#2	23.12	19.50	38.5	PASS
				RB3#3	23.07	19.36	38.5	PASS
				RB6#0	22.05	18.12	38.5	PASS
		3	LCH	RB1#0	23.4	19.47	38.5	PASS
				RB1#7	23.51	19.63	38.5	PASS
				RB1#14	23.57	19.80	38.5	PASS
				RB8#0	22.23	18.49	38.5	PASS
				RB8#4	22.15	18.40	38.5	PASS
				RB8#7	22.2	18.63	38.5	PASS
				RB15#0	22.14	18.48	38.5	PASS
			MCH	RB1#0	23.3	19.73	38.5	PASS
				RB1#7	23.48	19.78	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#14	23.27	19.40	38.5	PASS
				RB8#0	22.08	18.30	38.5	PASS
				RB8#4	22.19	18.45	38.5	PASS
				RB8#7	22.15	18.37	38.5	PASS
				RB15#0	22.22	18.46	38.5	PASS
			HCH	RB1#0	23.17	19.35	38.5	PASS
				RB1#7	23.34	19.72	38.5	PASS
				RB1#14	23.3	19.45	38.5	PASS
				RB8#0	22.13	18.42	38.5	PASS
				RB8#4	22.07	18.21	38.5	PASS
				RB8#7	22.05	18.28	38.5	PASS
				RB15#0	22.02	18.38	38.5	PASS
		5	LCH	RB1#0	23.2	19.52	38.5	PASS
				RB1#13	23.2	19.64	38.5	PASS
				RB1#24	23.15	19.53	38.5	PASS
				RB12#0	22.18	18.41	38.5	PASS
				RB12#6	22.12	18.21	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB12#13	22.17	18.55	38.5	PASS
				RB25#0	22.25	18.30	38.5	PASS
			MCH	RB1#0	23.28	19.34	38.5	PASS
				RB1#13	23.09	19.43	38.5	PASS
				RB1#24	23.05	19.39	38.5	PASS
				RB12#0	22.13	18.56	38.5	PASS
				RB12#6	22.08	18.23	38.5	PASS
				RB12#13	22.2	18.36	38.5	PASS
				RB25#0	22.14	18.34	38.5	PASS
			HCH	RB1#0	23.28	19.63	38.5	PASS
				RB1#13	22.96	19.38	38.5	PASS
				RB1#24	23.03	19.45	38.5	PASS
				RB12#0	22.11	18.21	38.5	PASS
				RB12#6	22.07	18.29	38.5	PASS
				RB12#13	22.04	18.37	38.5	PASS
				RB25#0	22.06	18.45	38.5	PASS
		10	LCH	RB1#0	23.34	19.78	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#25	23.42	19.49	38.5	PASS
				RB1#49	23.33	19.44	38.5	PASS
				RB25#0	22.37	18.67	38.5	PASS
				RB25#13	22.23	18.31	38.5	PASS
				RB25#25	22.23	18.42	38.5	PASS
				RB50#0	22.33	18.43	38.5	PASS
			MCH	RB1#0	23.44	19.83	38.5	PASS
				RB1#25	23.47	19.74	38.5	PASS
				RB1#49	23.45	19.67	38.5	PASS
				RB25#0	22.32	18.47	38.5	PASS
				RB25#13	22.11	18.19	38.5	PASS
				RB25#25	22.15	18.60	38.5	PASS
				RB50#0	22.18	18.52	38.5	PASS
			HCH	RB1#0	23.35	19.57	38.5	PASS
				RB1#25	23.34	19.61	38.5	PASS
				RB1#49	23.17	19.33	38.5	PASS
				RB25#0	22.21	18.64	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#13	22.02	18.25	38.5	PASS
				RB25#25	22.06	18.37	38.5	PASS
				RB50#0	22.16	18.33	38.5	PASS
	LTE/TM2	1.4	LCH	RB1#0	22.65	18.96	38.5	PASS
				RB1#3	22.73	19.14	38.5	PASS
				RB1#5	22.52	18.61	38.5	PASS
				RB3#0	22.25	18.63	38.5	PASS
				RB3#2	22.31	18.37	38.5	PASS
				RB3#3	22.29	18.57	38.5	PASS
				RB6#0	21.02	17.43	38.5	PASS
			MCH	RB1#0	22.57	19.01	38.5	PASS
				RB1#3	22.89	18.96	38.5	PASS
				RB1#5	22.74	18.84	38.5	PASS
				RB3#0	22.18	18.42	38.5	PASS
				RB3#2	22.19	18.55	38.5	PASS
				RB3#3	21.76	17.92	38.5	PASS
				RB6#0	21.07	17.20	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.23	18.65	38.5	PASS
				RB1#3	22.5	18.82	38.5	PASS
				RB1#5	22.5	18.94	38.5	PASS
				RB3#0	22.25	18.36	38.5	PASS
				RB3#2	22.18	18.55	38.5	PASS
				RB3#3	22.11	18.35	38.5	PASS
				RB6#0	21.16	17.47	38.5	PASS
		3	LCH	RB1#0	22.26	18.32	38.5	PASS
				RB1#7	22.19	18.30	38.5	PASS
				RB1#14	22.48	18.89	38.5	PASS
				RB8#0	21.13	17.25	38.5	PASS
				RB8#4	21.15	17.52	38.5	PASS
				RB8#7	21.23	17.44	38.5	PASS
				RB15#0	21.19	17.36	38.5	PASS
			MCH	RB1#0	22.29	18.44	38.5	PASS
				RB1#7	22.44	18.82	38.5	PASS
				RB1#14	22.15	18.50	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#0	21.02	17.08	38.5	PASS
				RB8#4	20.96	17.38	38.5	PASS
				RB8#7	20.92	16.98	38.5	PASS
				RB15#0	21.11	17.53	38.5	PASS
			HCH	RB1#0	22.01	18.10	38.5	PASS
				RB1#7	21.97	18.27	38.5	PASS
				RB1#14	22.31	18.46	38.5	PASS
				RB8#0	20.9	17.18	38.5	PASS
				RB8#4	20.77	17.05	38.5	PASS
				RB8#7	20.92	17.04	38.5	PASS
				RB15#0	21.03	17.21	38.5	PASS
		5	LCH	RB1#0	22.11	18.51	38.5	PASS
				RB1#13	21.81	17.89	38.5	PASS
				RB1#24	22.05	18.42	38.5	PASS
				RB12#0	21.07	17.14	38.5	PASS
				RB12#6	21.1	17.53	38.5	PASS
				RB12#13	21.04	17.16	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.24	17.64	38.5	PASS
			MCH	RB1#0	22.13	18.58	38.5	PASS
				RB1#13	21.93	18.36	38.5	PASS
				RB1#24	22.1	18.42	38.5	PASS
				RB12#0	20.93	17.26	38.5	PASS
				RB12#6	21.23	17.36	38.5	PASS
				RB12#13	21.15	17.32	38.5	PASS
				RB25#0	21.08	17.30	38.5	PASS
			HCH	RB1#0	22.04	18.39	38.5	PASS
				RB1#13	21.62	17.69	38.5	PASS
				RB1#24	21.7	17.76	38.5	PASS
				RB12#0	20.93	17.30	38.5	PASS
				RB12#6	20.83	16.90	38.5	PASS
				RB12#13	20.86	17.10	38.5	PASS
				RB25#0	21.08	17.32	38.5	PASS
		10	LCH	RB1#0	22.45	18.83	38.5	PASS
				RB1#25	22.48	18.69	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#49	22.4	18.59	38.5	PASS
				RB25#0	21.47	17.56	38.5	PASS
				RB25#13	21.23	17.50	38.5	PASS
				RB25#25	21.14	17.34	38.5	PASS
				RB50#0	21.26	17.39	38.5	PASS
			MCH	RB1#0	22.39	18.82	38.5	PASS
				RB1#25	22.52	18.95	38.5	PASS
				RB1#49	22.47	18.59	38.5	PASS
				RB25#0	21.3	17.74	38.5	PASS
				RB25#13	21.16	17.47	38.5	PASS
				RB25#25	21.16	17.34	38.5	PASS
				RB50#0	21.25	17.67	38.5	PASS
			HCH	RB1#0	22.39	18.57	38.5	PASS
				RB1#25	22.33	18.72	38.5	PASS
				RB1#49	22.3	18.61	38.5	PASS
				RB25#0	21.23	17.34	38.5	PASS
				RB25#13	20.88	17.26	38.5	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#25	20.85	17.09	38.5	PASS
				RB50#0	21.17	17.58	38.5	PASS

Note1:

a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

Note2: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS



2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Void

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

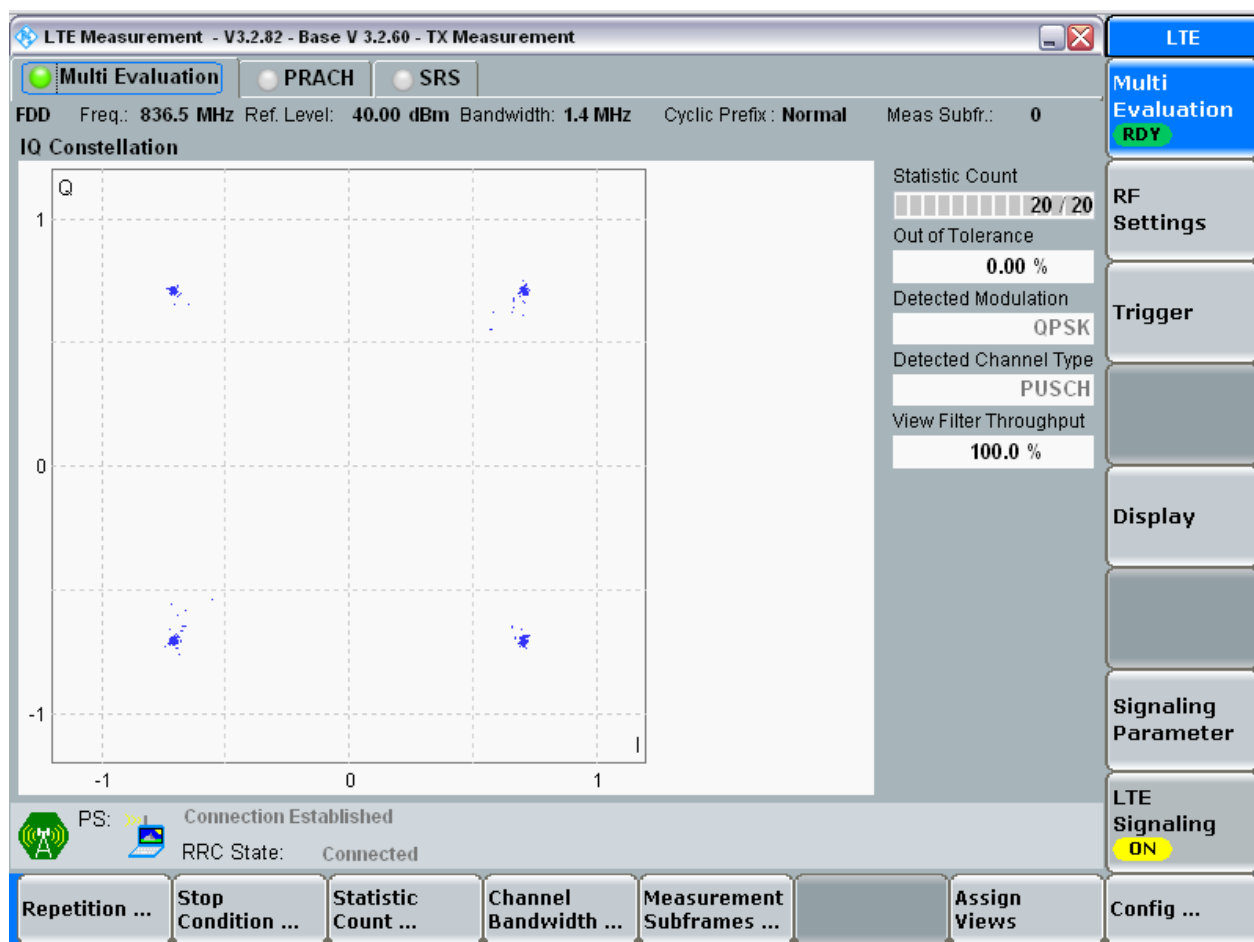
3.1.1 Test Band = BAND5

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 1.4

3.1.1.1.1.1 Test Channel = MCH

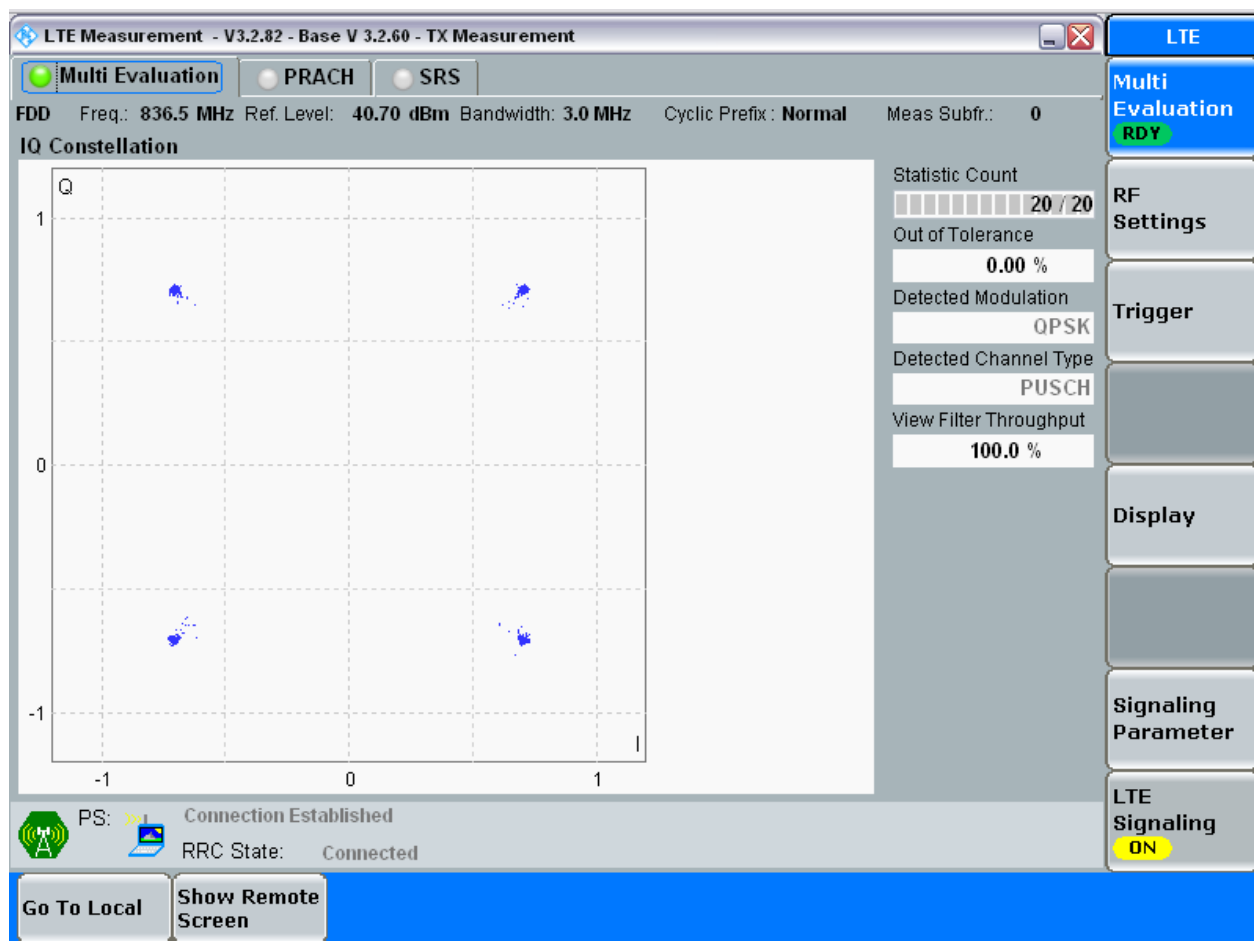
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

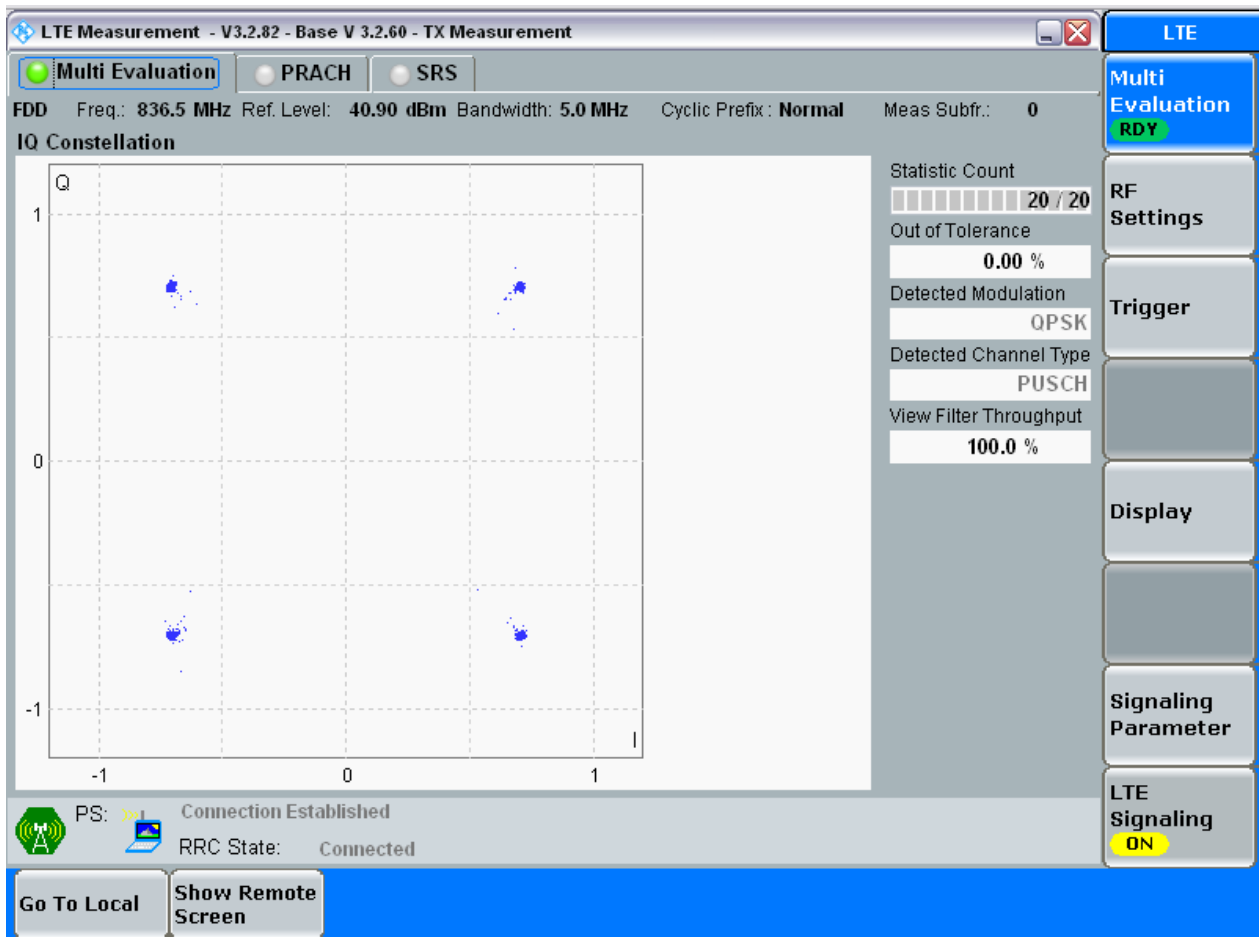
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

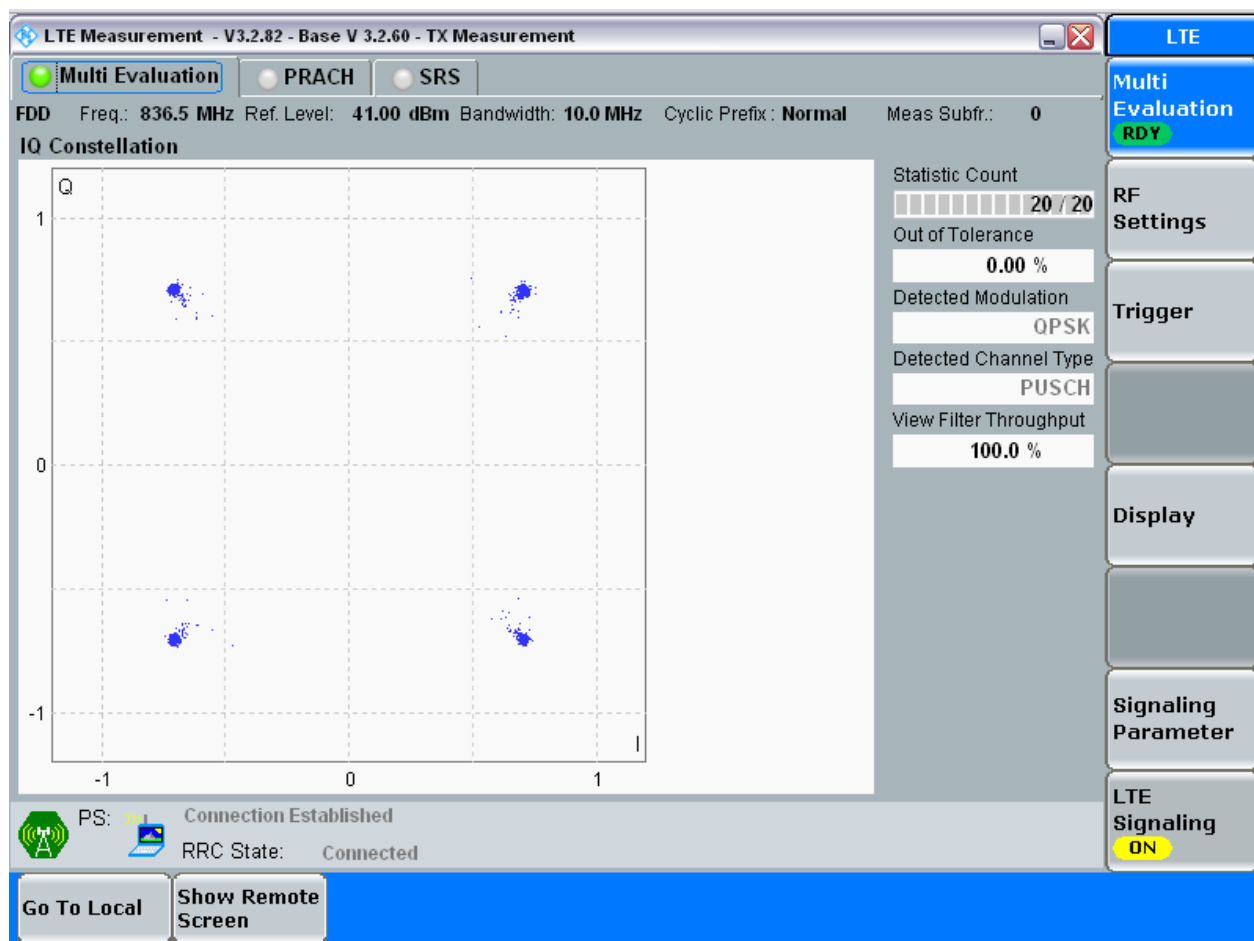
3.1.1.1.3.1.1 Test RB = RB25#0



3.1.1.1.4 Test Bandwidth = 10

3.1.1.1.4.1 Test Channel = MCH

3.1.1.1.4.1.1 Test RB = RB50#0

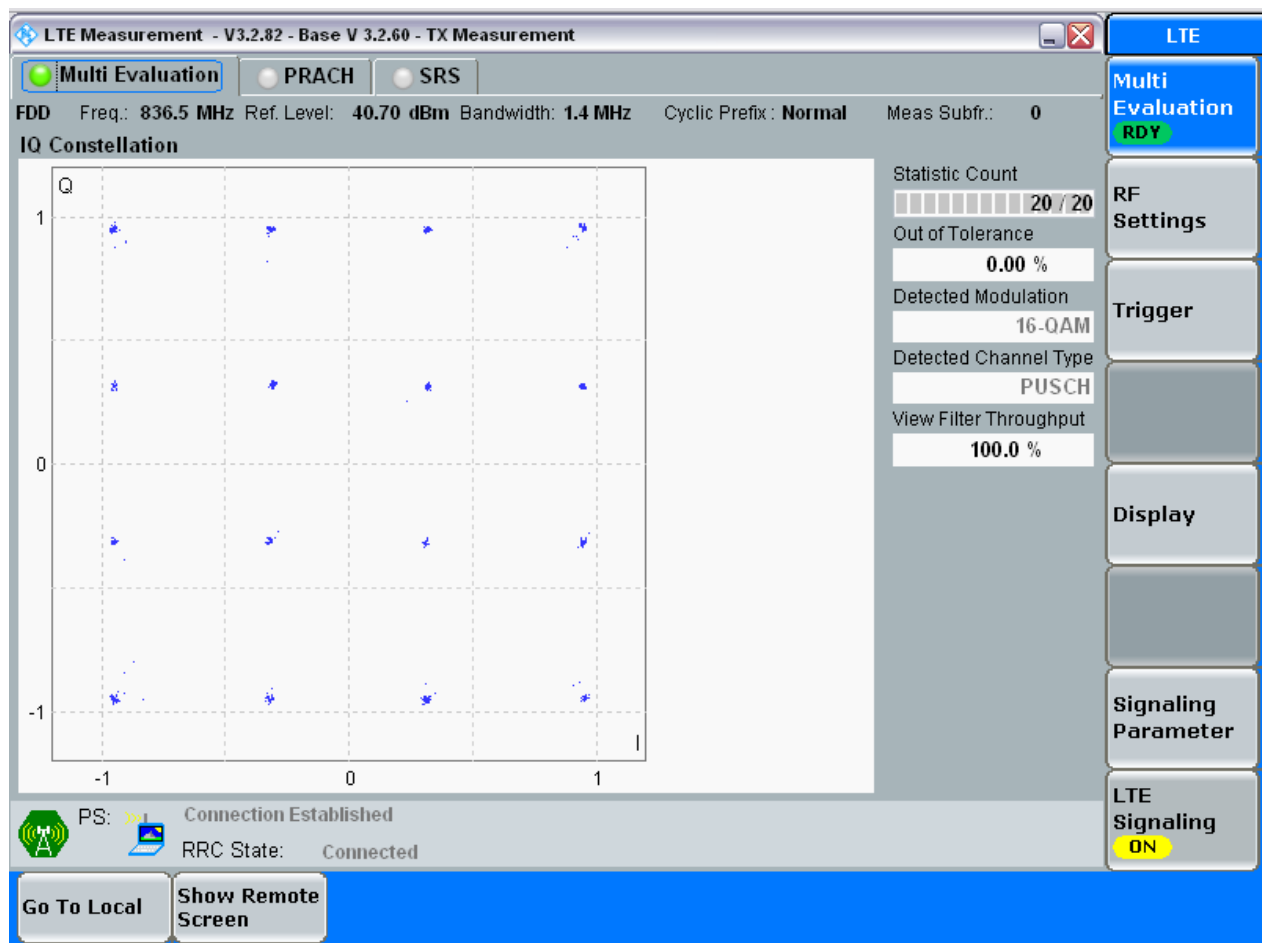


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

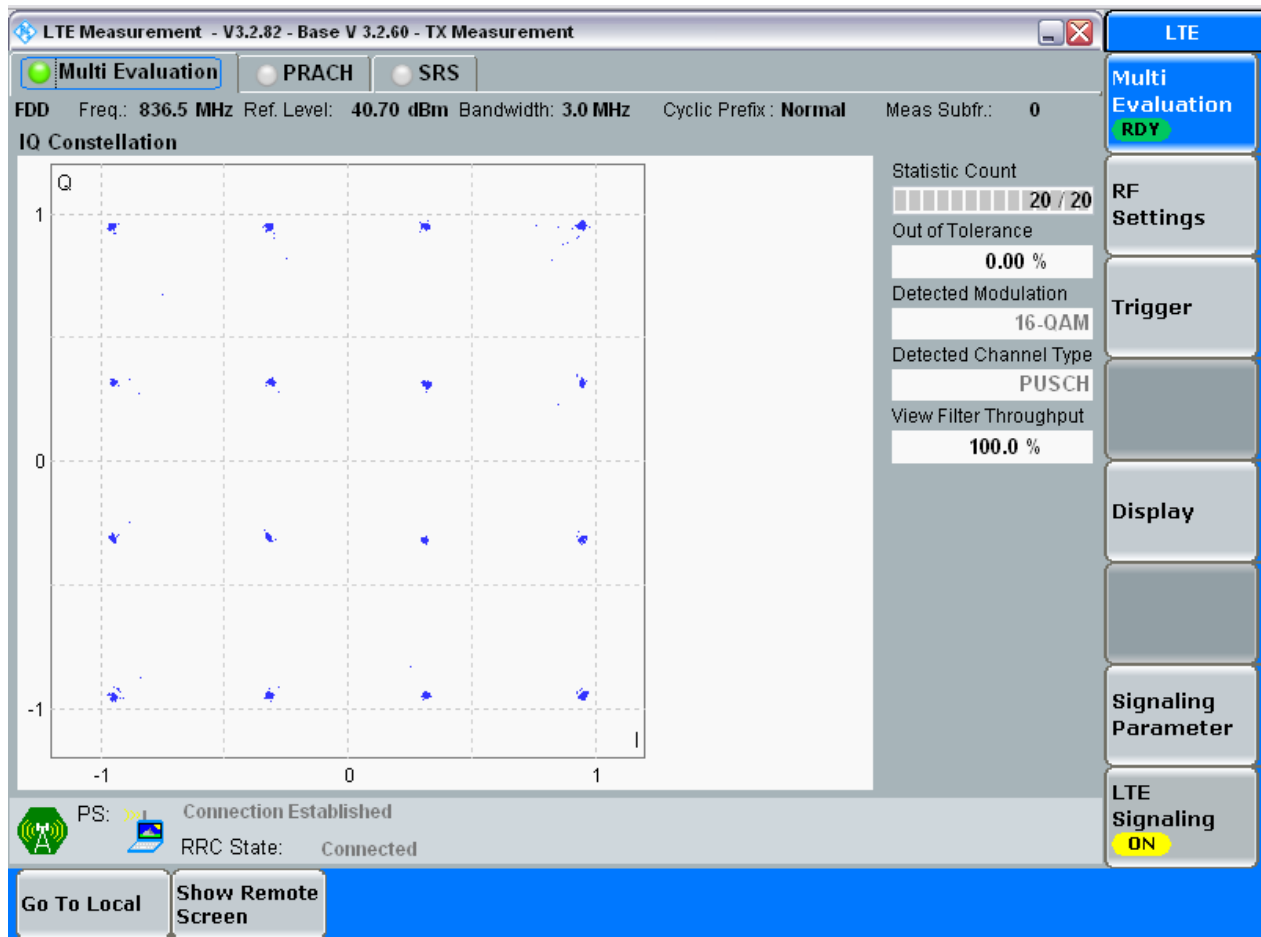
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

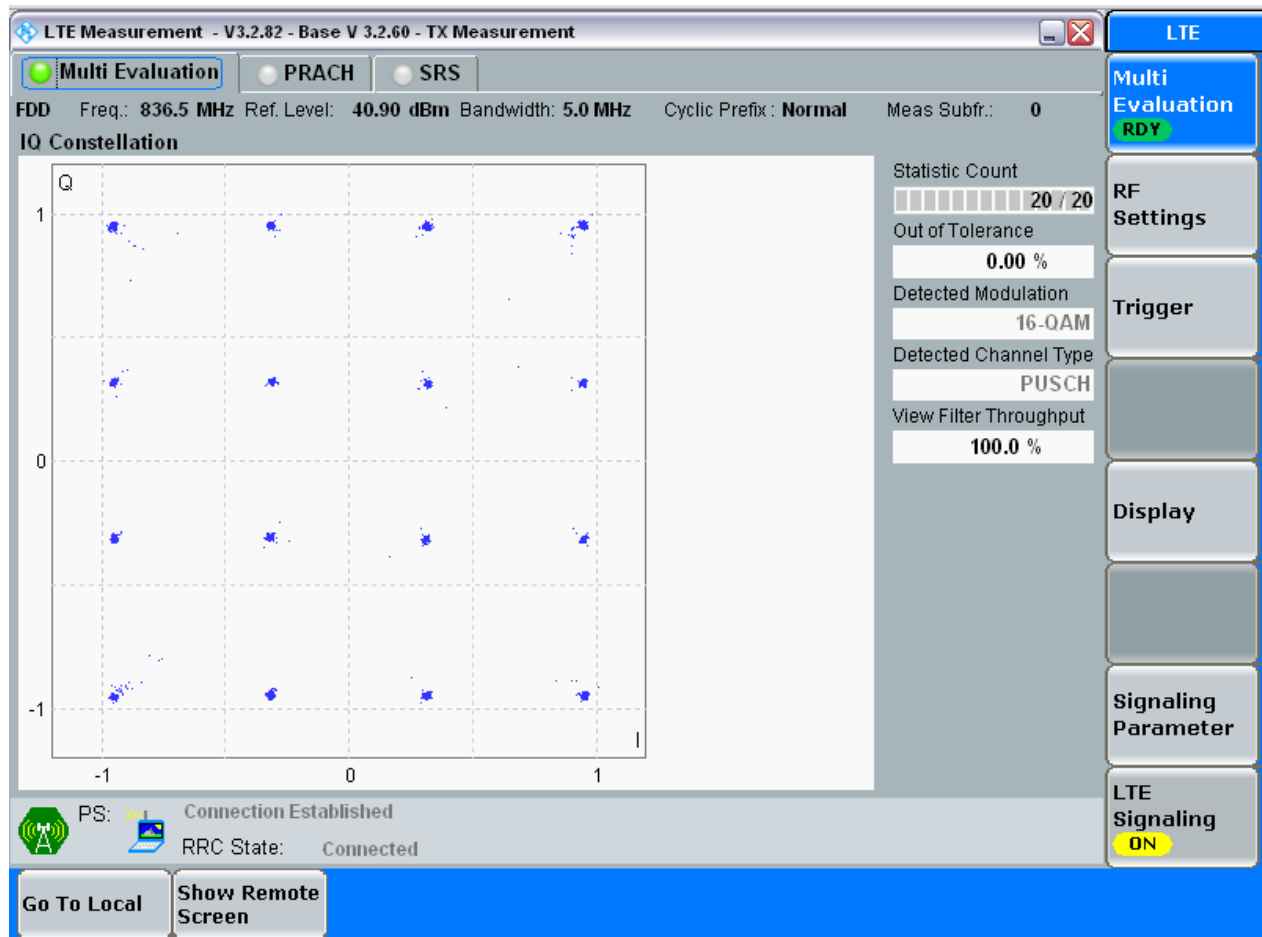
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

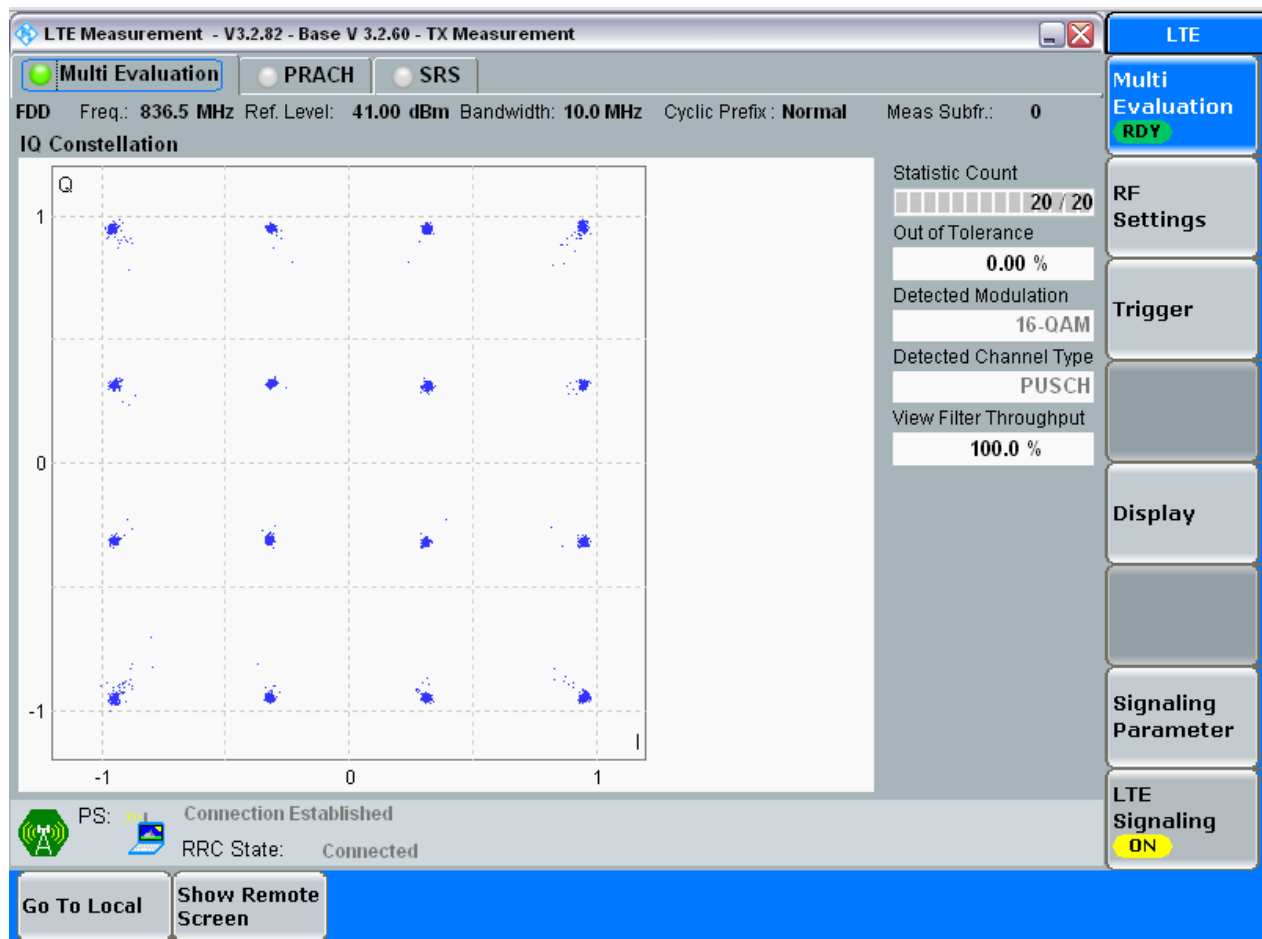
3.1.1.2.3.1.1 Test RB = RB25#0



3.1.1.2.4 Test Bandwidth = 10

3.1.1.2.4.1 Test Channel = MCH

3.1.1.2.4.1.1 Test RB = RB50#0





4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BAND5	LTE/TM1	1.4	LCH	RB6#0	1.09	1.26	Pass
			MCH	RB6#0	1.09	1.26	Pass
			HCH	RB6#0	1.09	1.26	Pass
		3	LCH	RB15#0	2.70	2.94	Pass
			MCH	RB15#0	2.70	2.94	Pass
			HCH	RB15#0	2.70	2.94	Pass
		5	LCH	RB25#0	4.50	4.88	Pass
			MCH	RB25#0	4.51	4.89	Pass
			HCH	RB25#0	4.50	4.89	Pass
		10	LCH	RB50#0	8.99	9.57	Pass
			MCH	RB50#0	8.99	9.60	Pass
			HCH	RB50#0	8.98	9.58	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.09	1.27	Pass
			MCH	RB6#0	1.09	1.26	Pass
			HCH	RB6#0	1.09	1.27	Pass
		3	LCH	RB15#0	2.70	2.95	Pass
			MCH	RB15#0	2.70	2.94	Pass
			HCH	RB15#0	2.70	2.92	Pass
		5	LCH	RB25#0	4.51	4.90	Pass
			MCH	RB25#0	4.51	4.88	Pass
			HCH	RB25#0	4.51	4.87	Pass
		10	LCH	RB50#0	8.98	9.58	Pass
			MCH	RB50#0	8.98	9.54	Pass
			HCH	RB50#0	8.97	9.61	Pass

Part II - Test Plots

4.1 For LTE

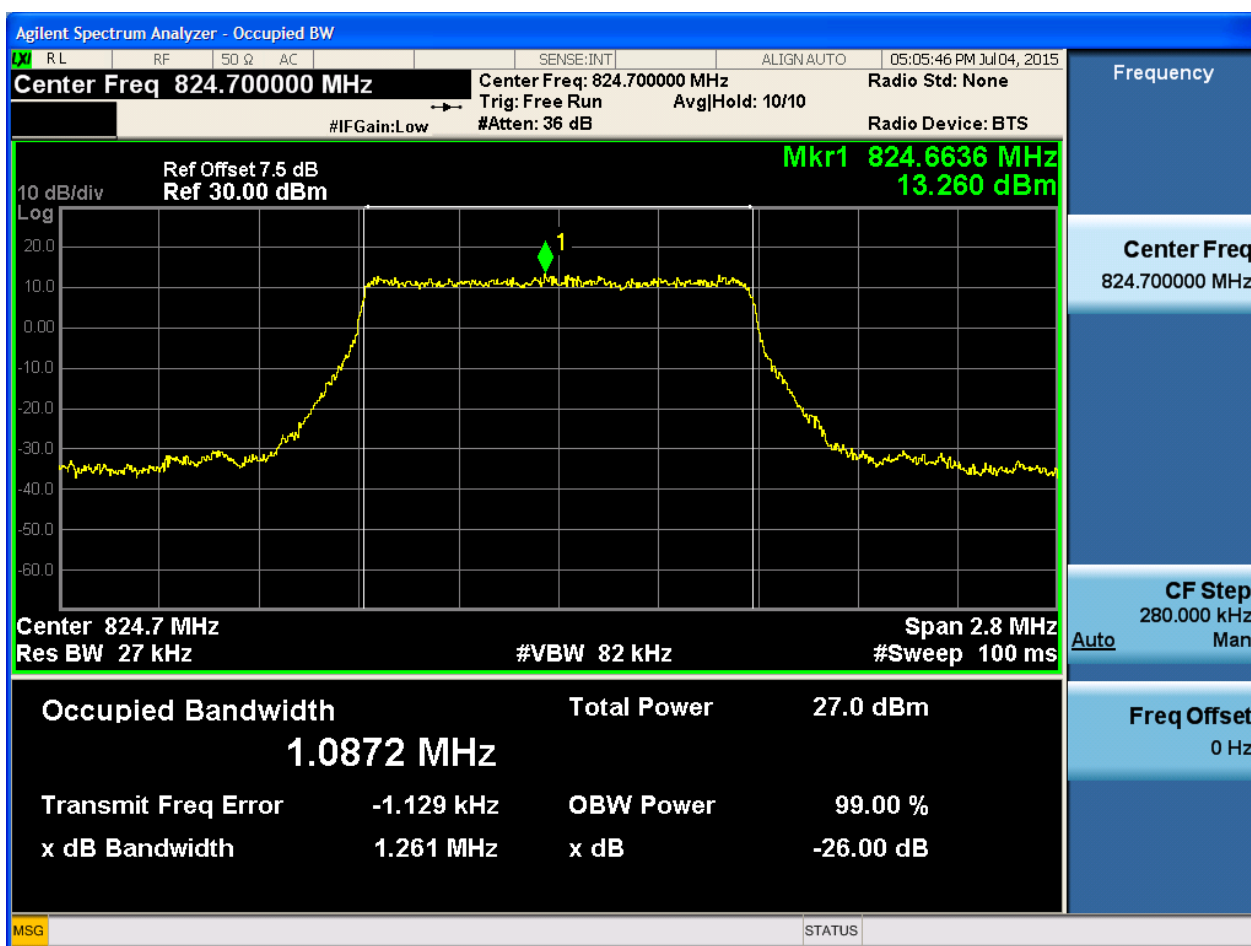
4.1.1 Test Band = BAND5

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 1.4

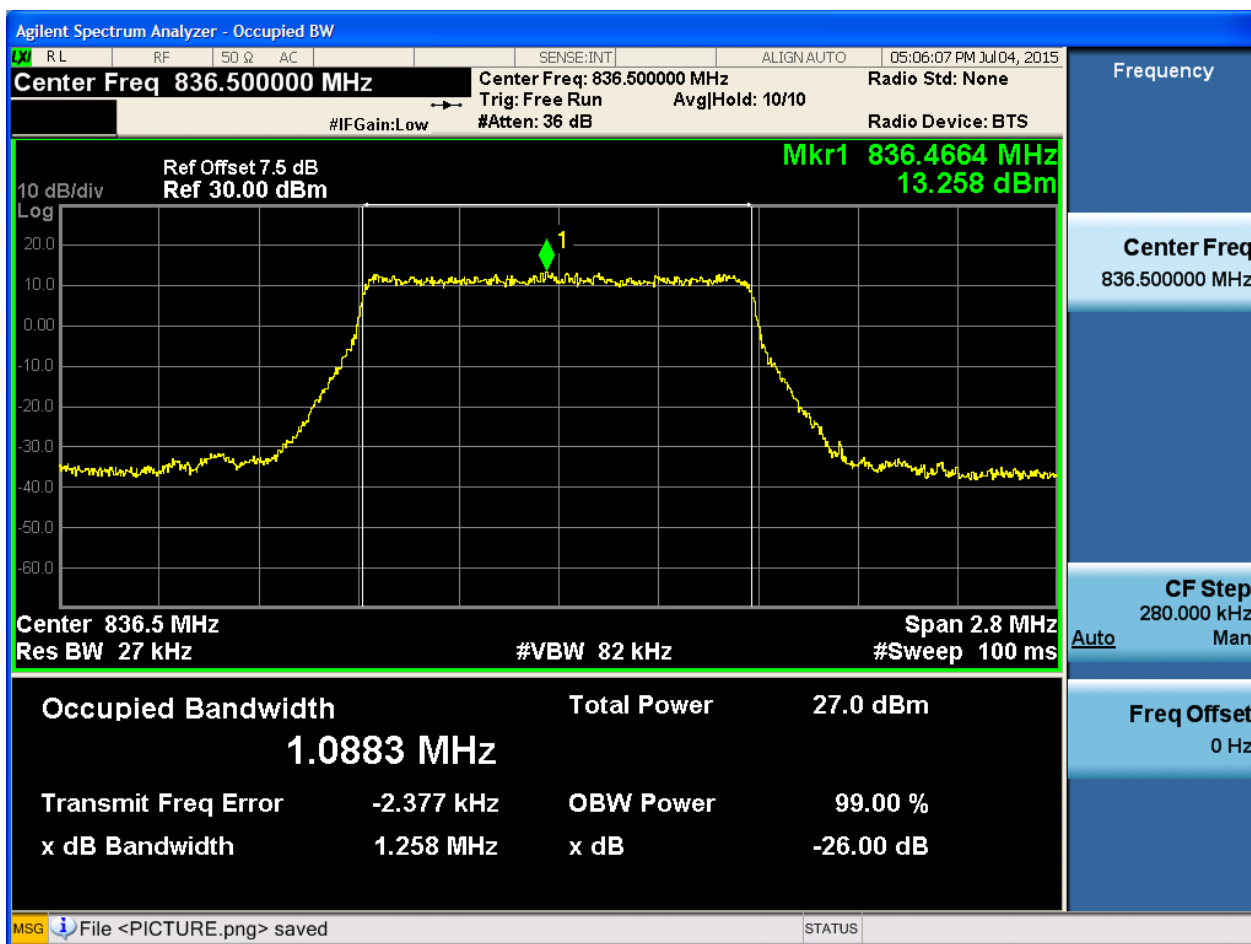
4.1.1.1.1.1 Test Channel = LCH

4.1.1.1.1.1.1 Test RB = RB6#0



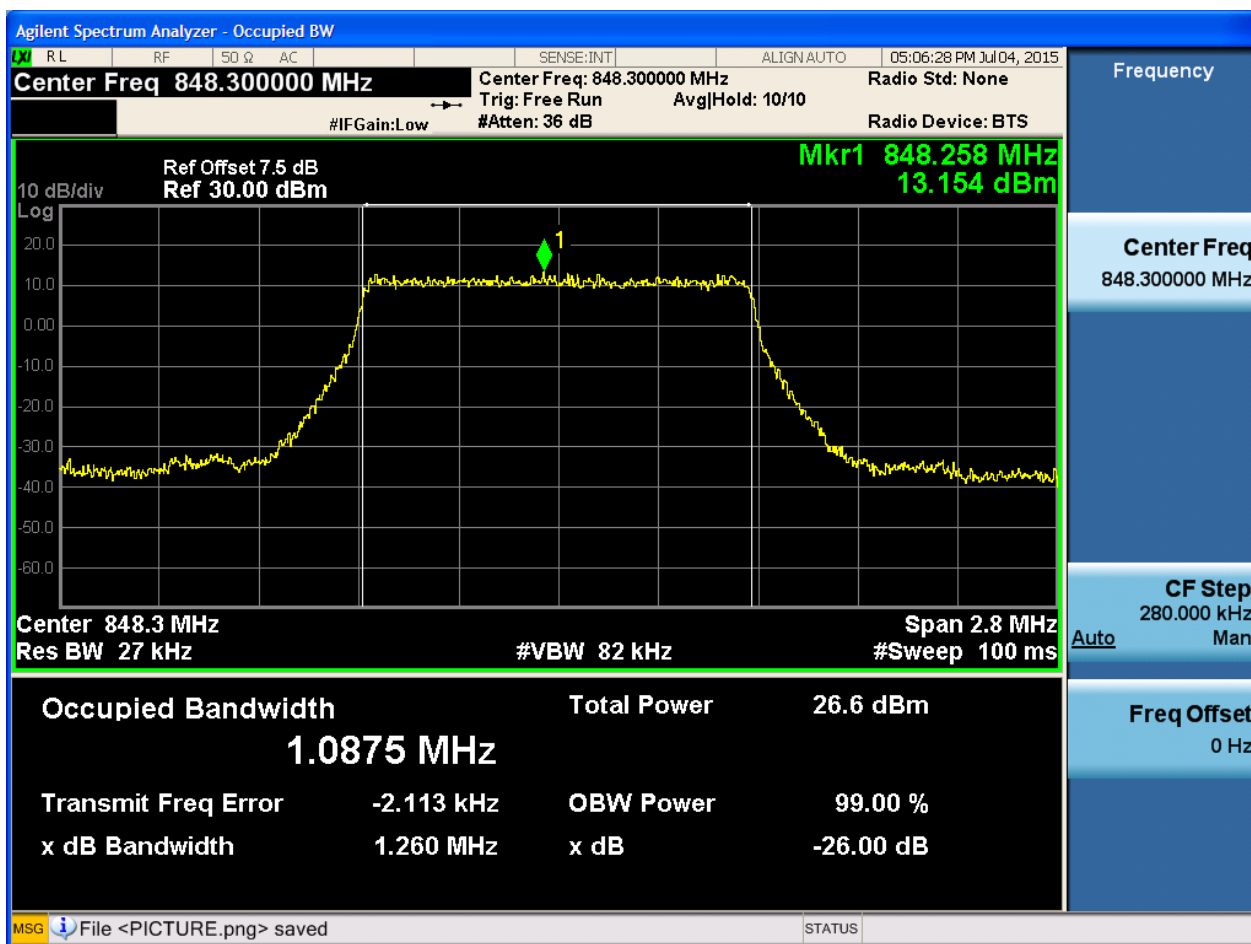
4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB6#0



4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

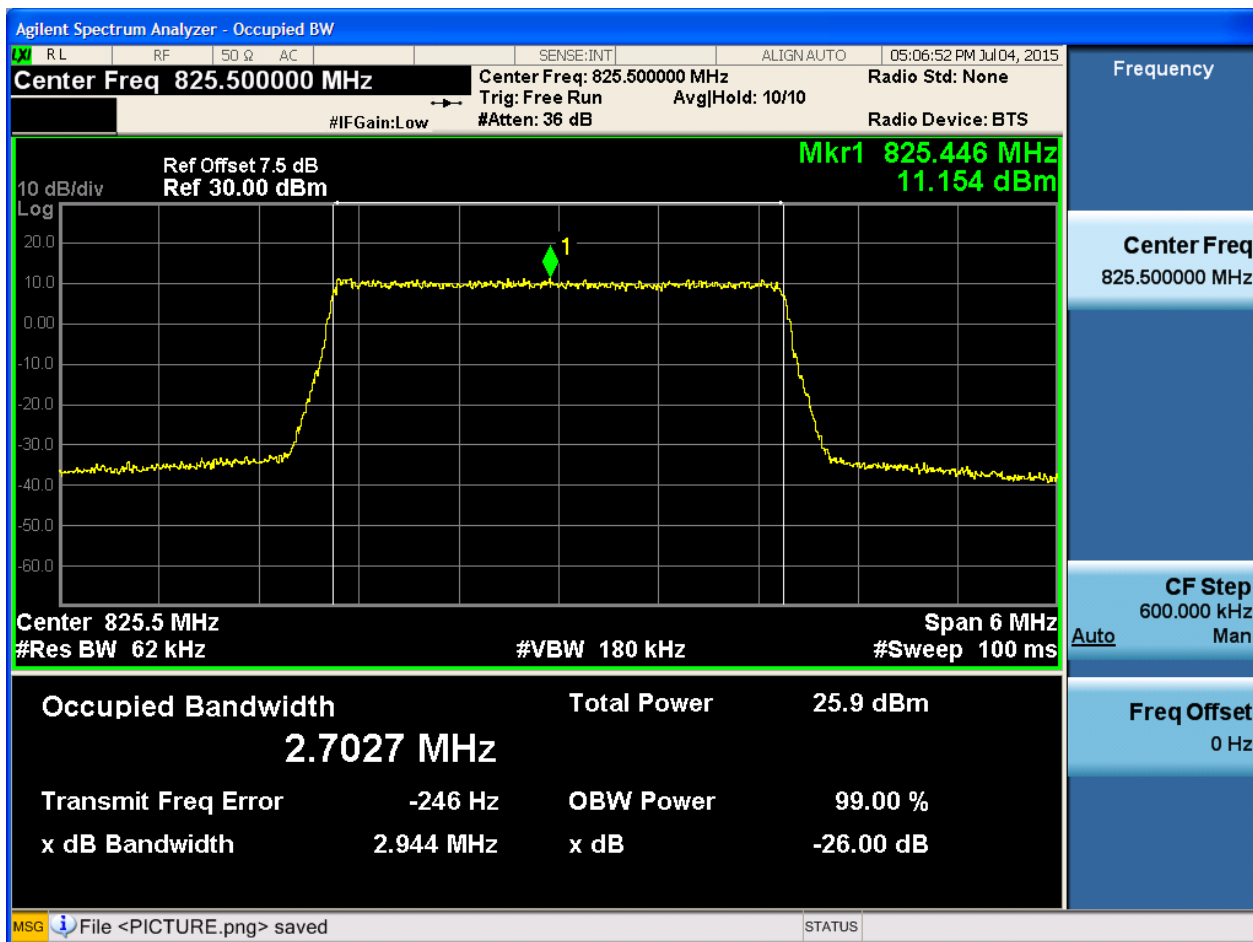




4.1.1.1.2 Test Bandwidth = 3

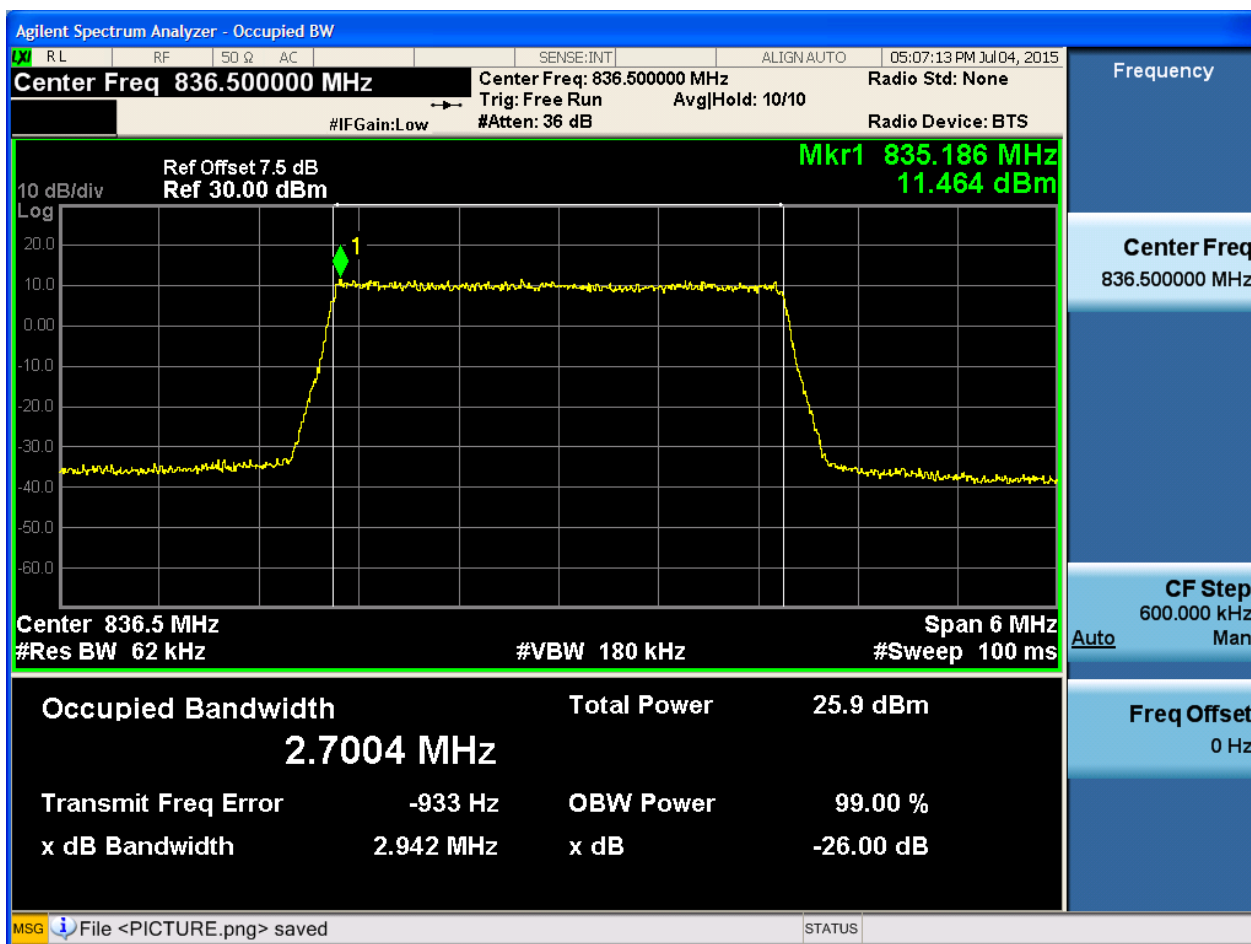
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB15#0



4.1.1.1.2.2 Test Channel = MCH

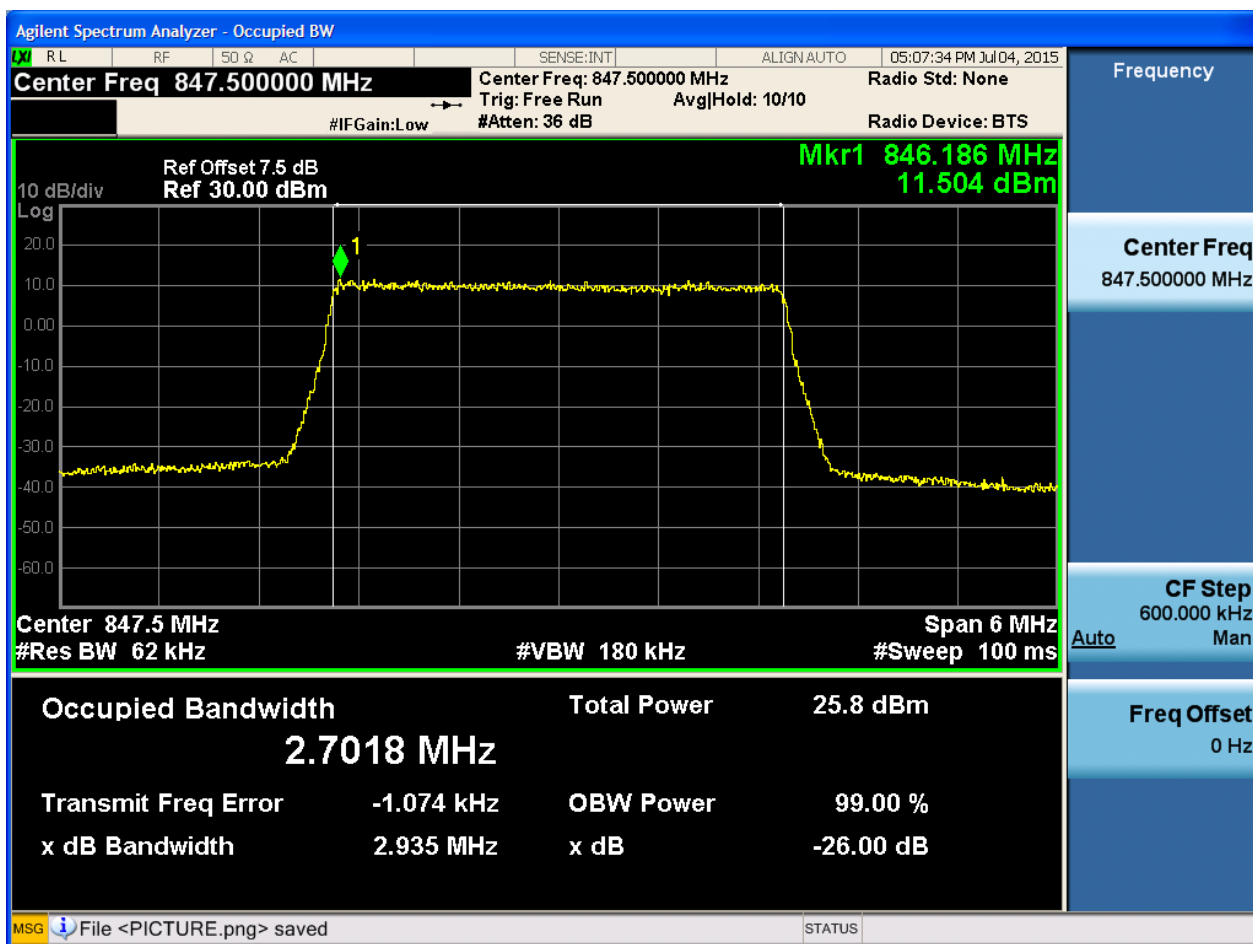
4.1.1.1.2.2.1 Test RB = RB15#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0

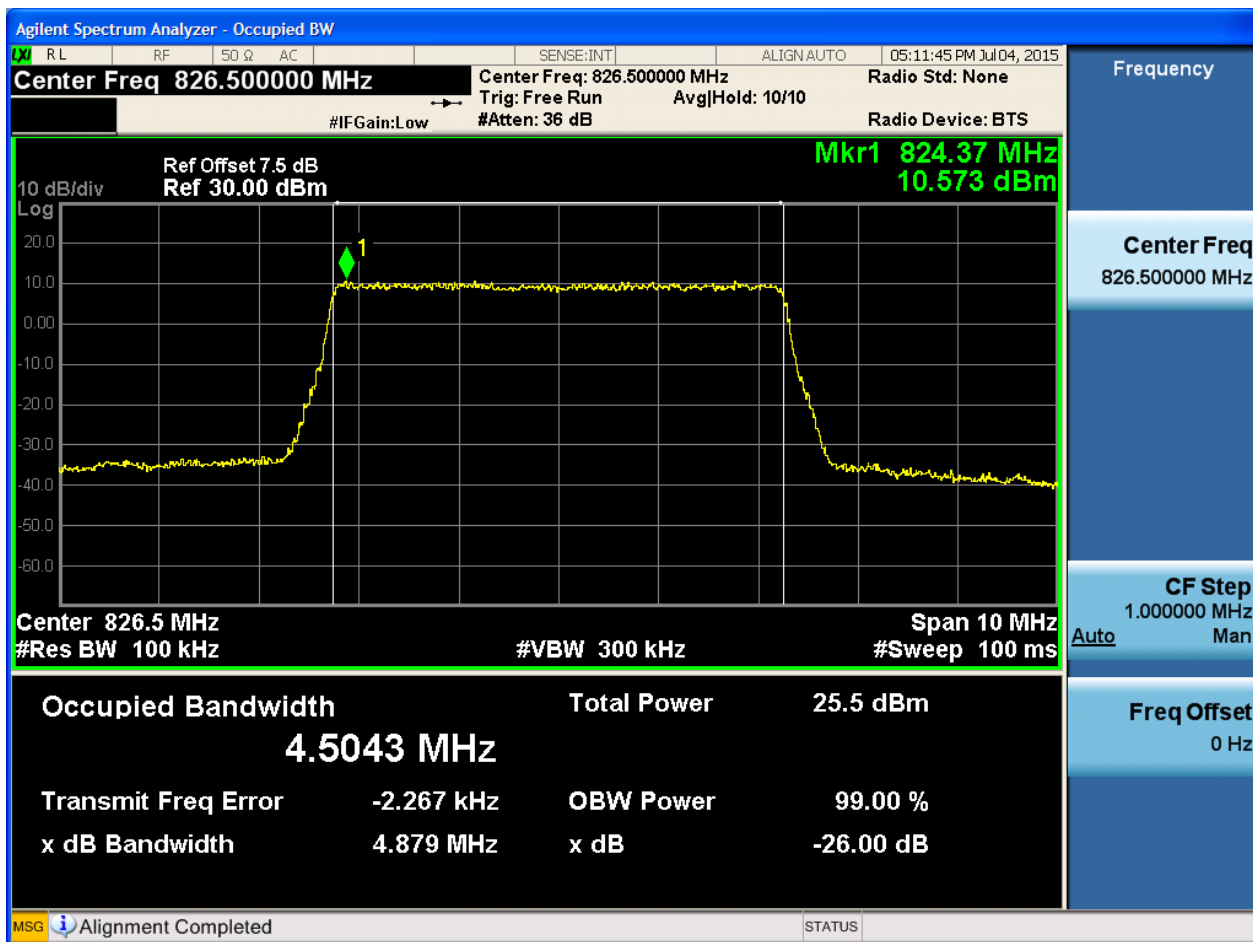




4.1.1.1.3 Test Bandwidth = 5

4.1.1.1.3.1 Test Channel = LCH

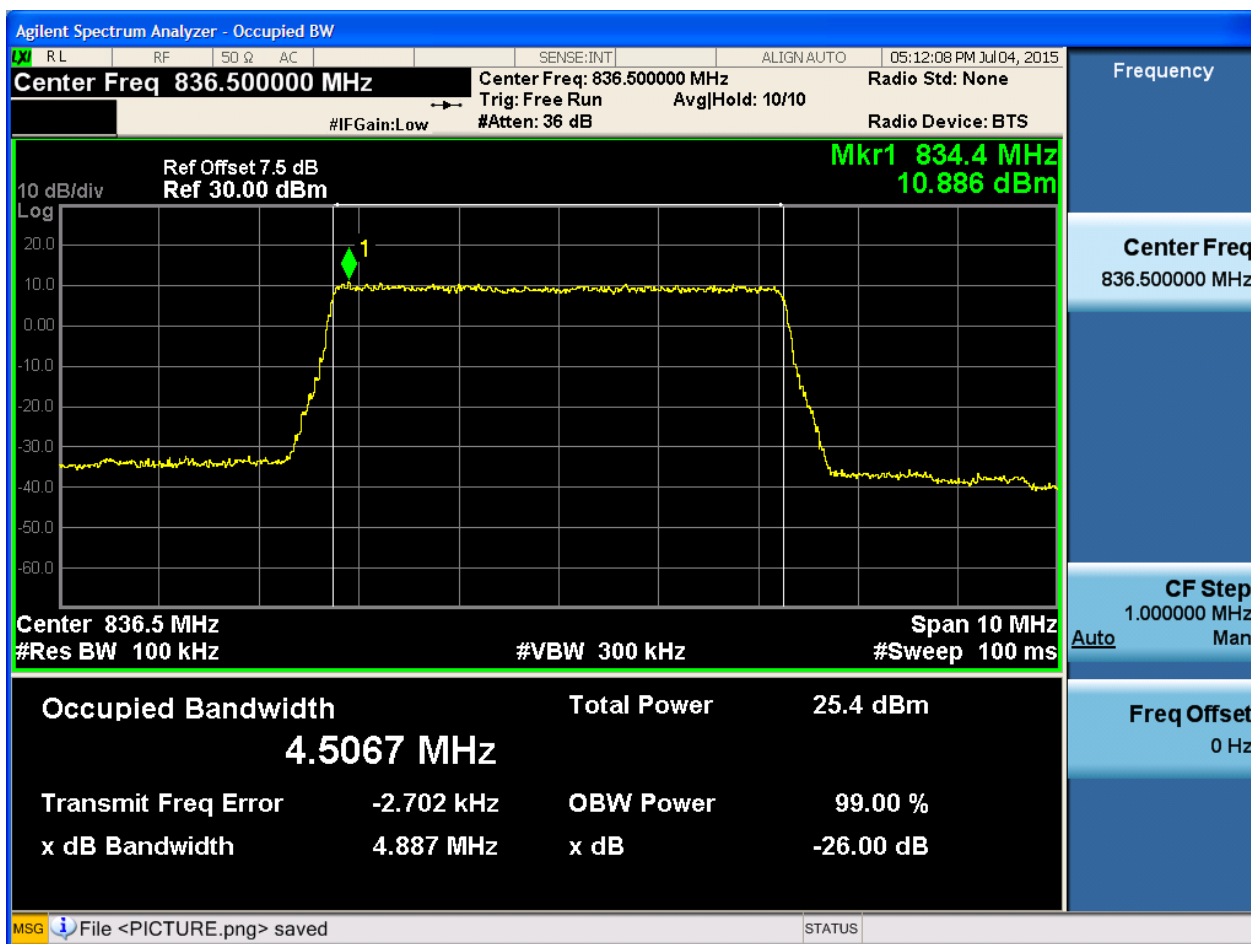
4.1.1.1.3.1.1 Test RB = RB25#0





4.1.1.1.3.2 Test Channel = MCH

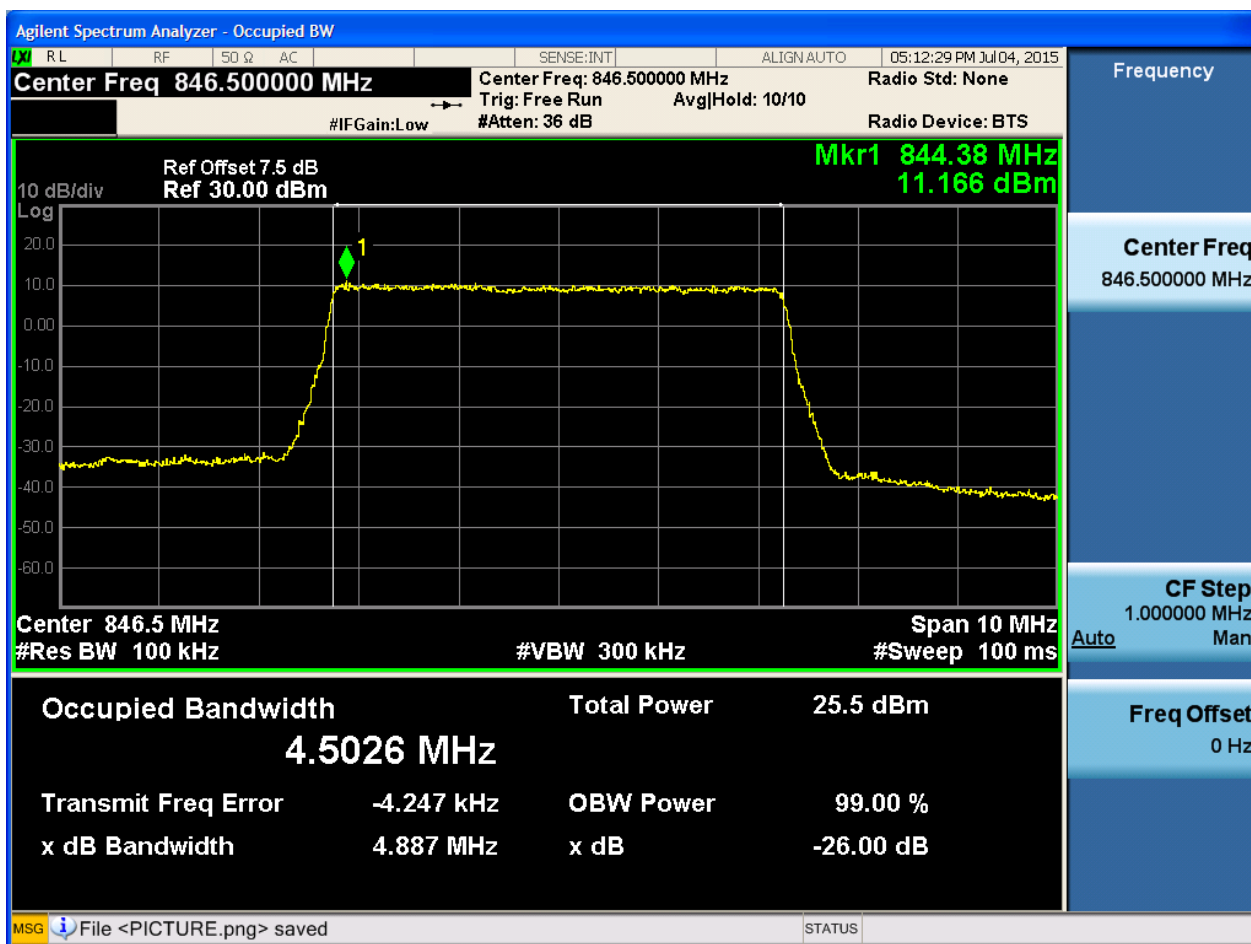
4.1.1.1.3.2.1 Test RB = RB25#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0

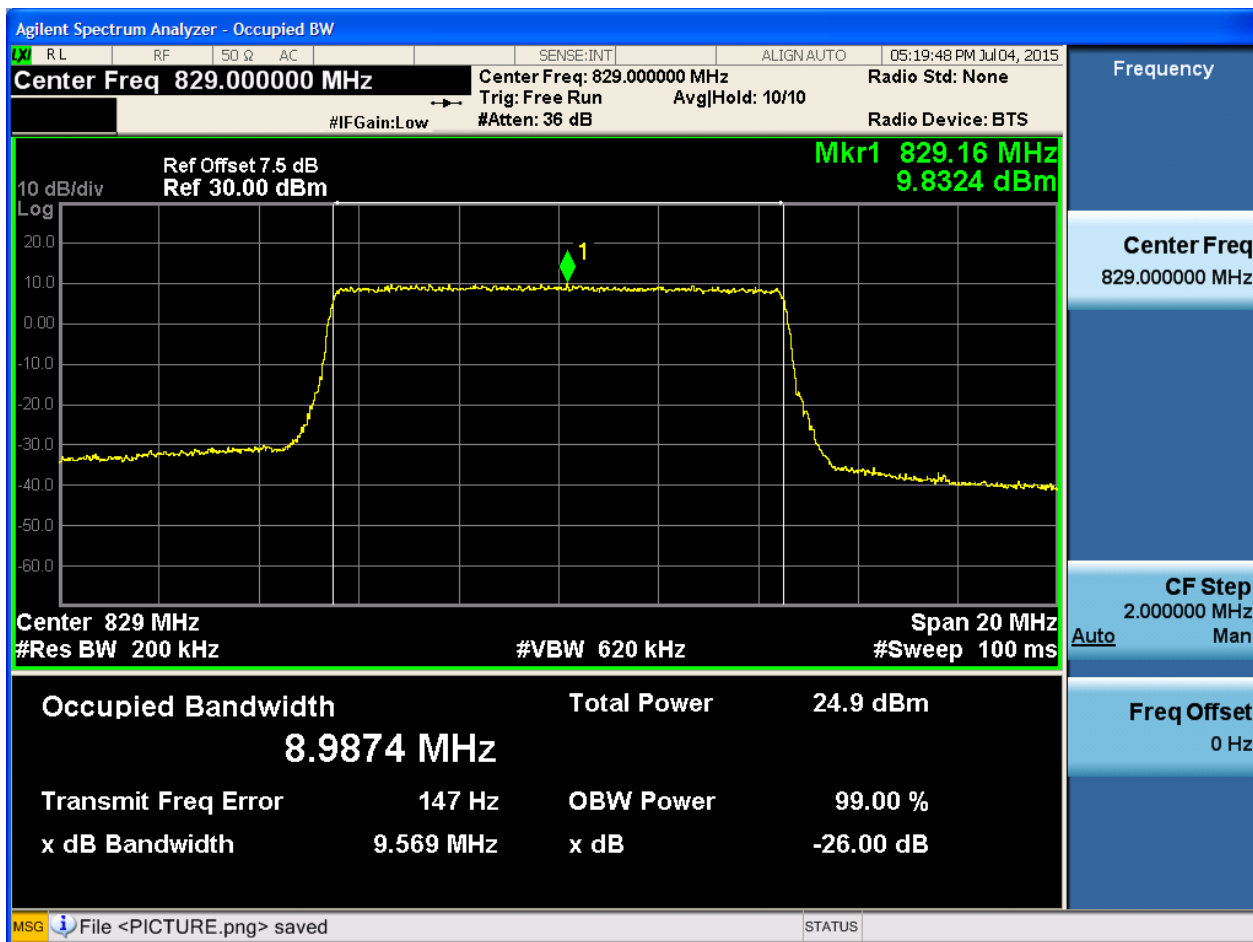




4.1.1.1.4 Test Bandwidth = 10

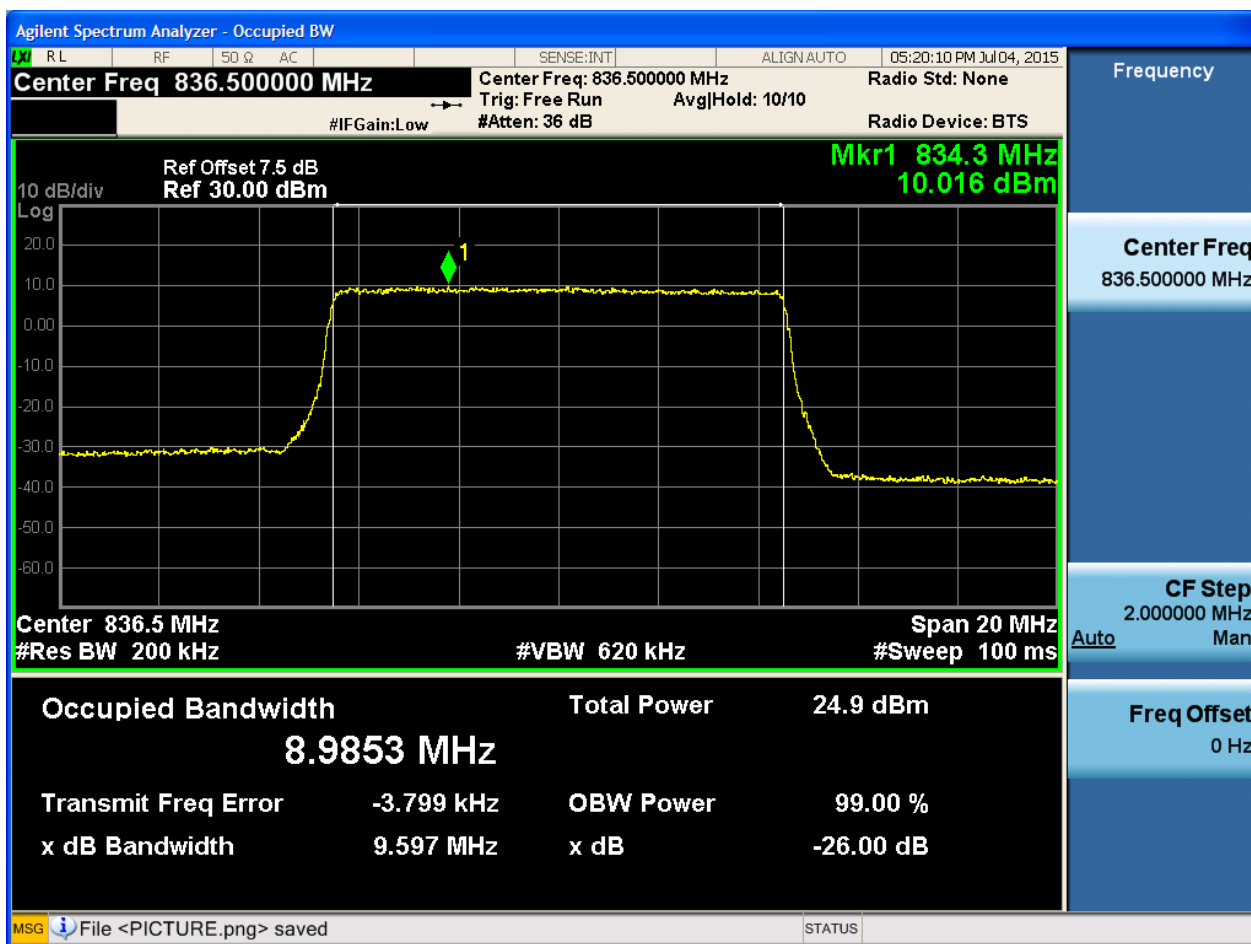
4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB50#0



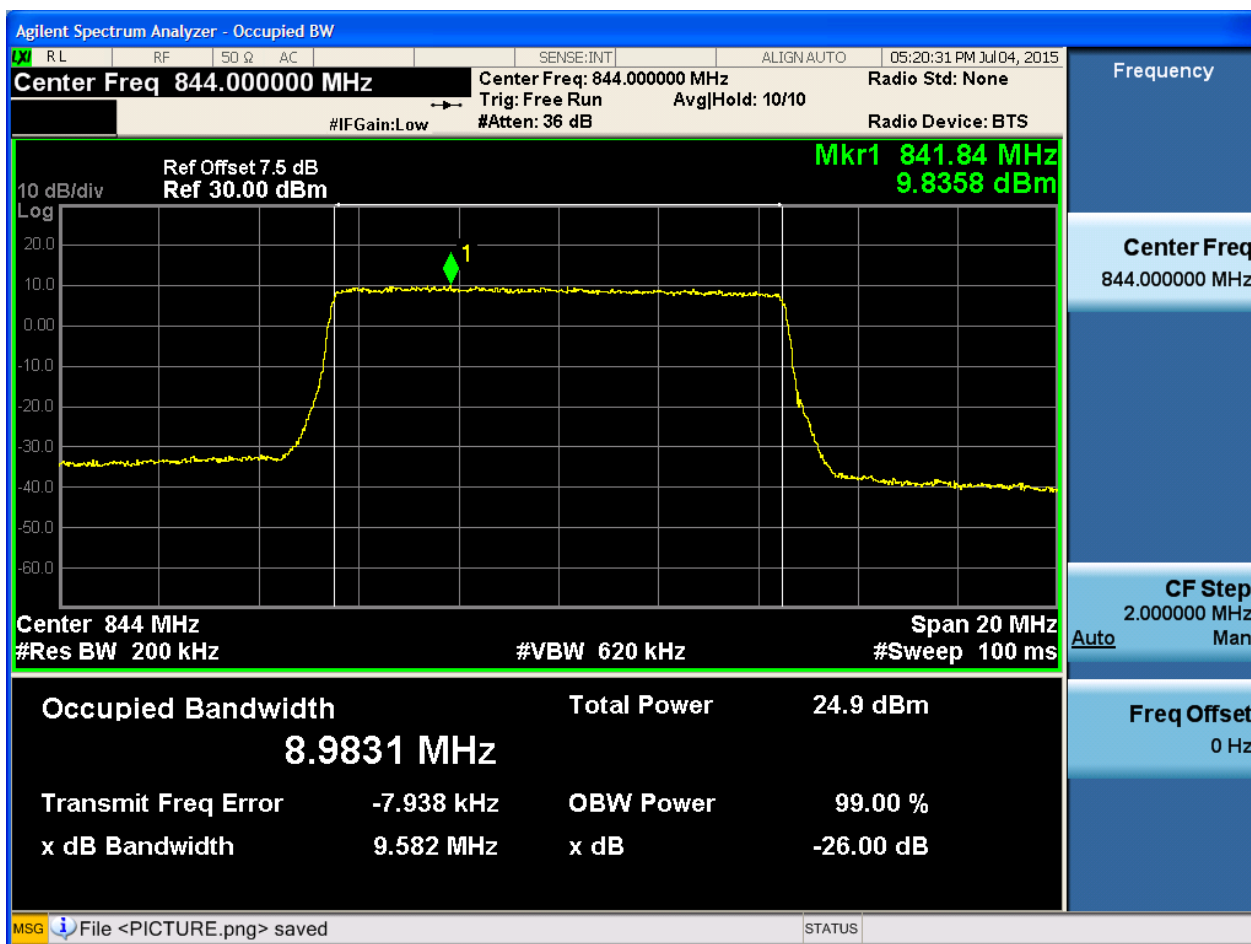
4.1.1.1.4.2 Test Channel = MCH

4.1.1.1.4.2.1 Test RB = RB50#0



4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#0

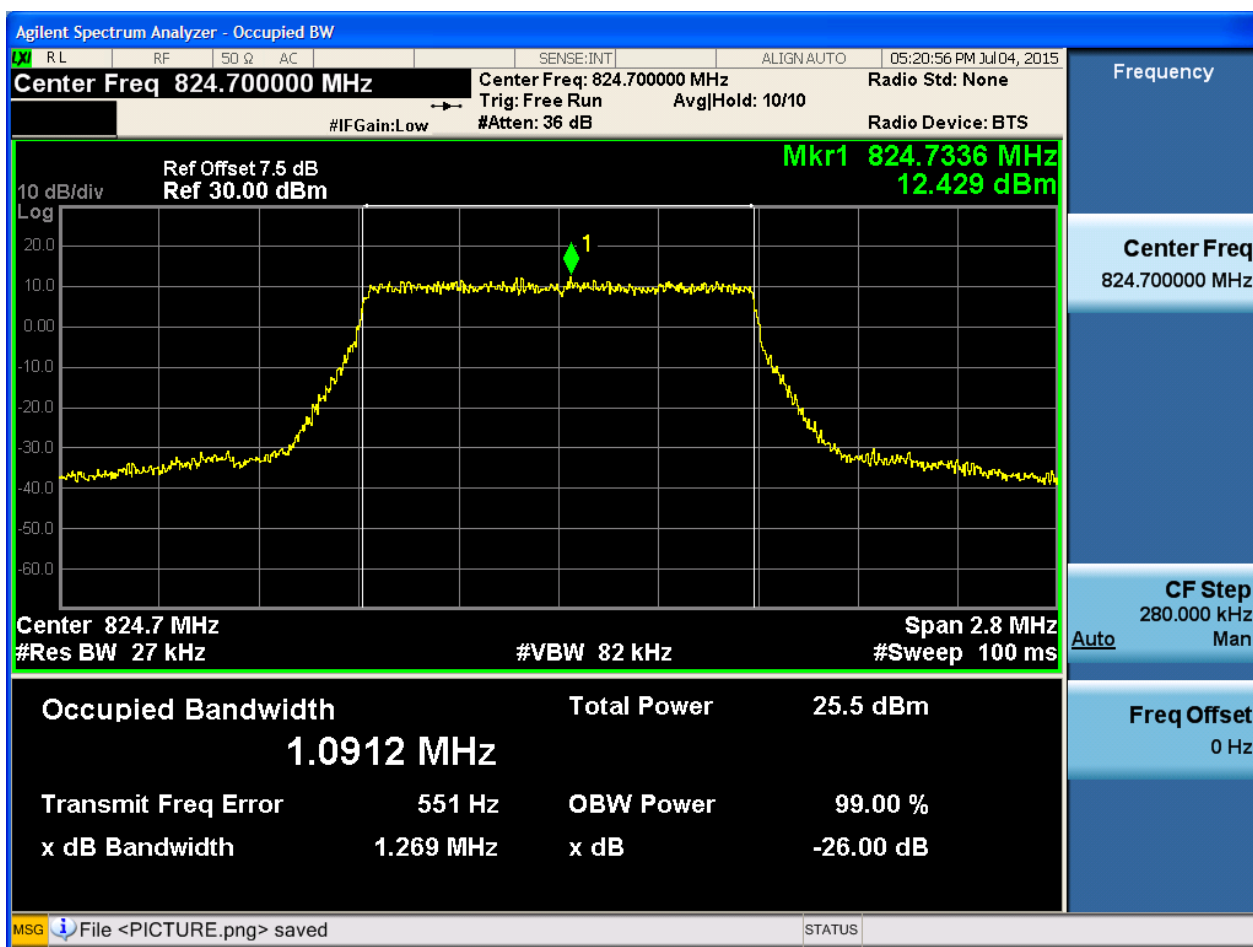


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

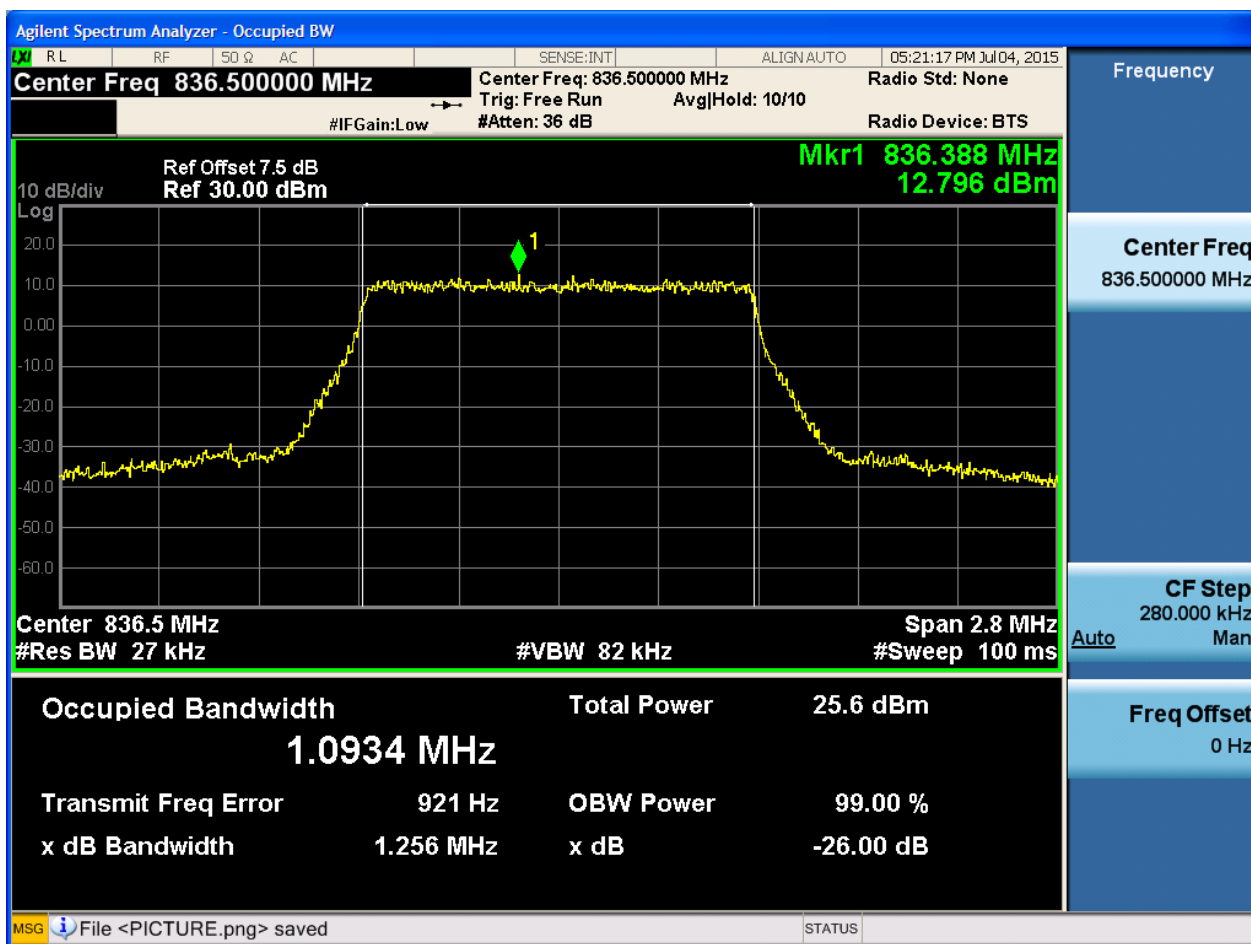
4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB6#0



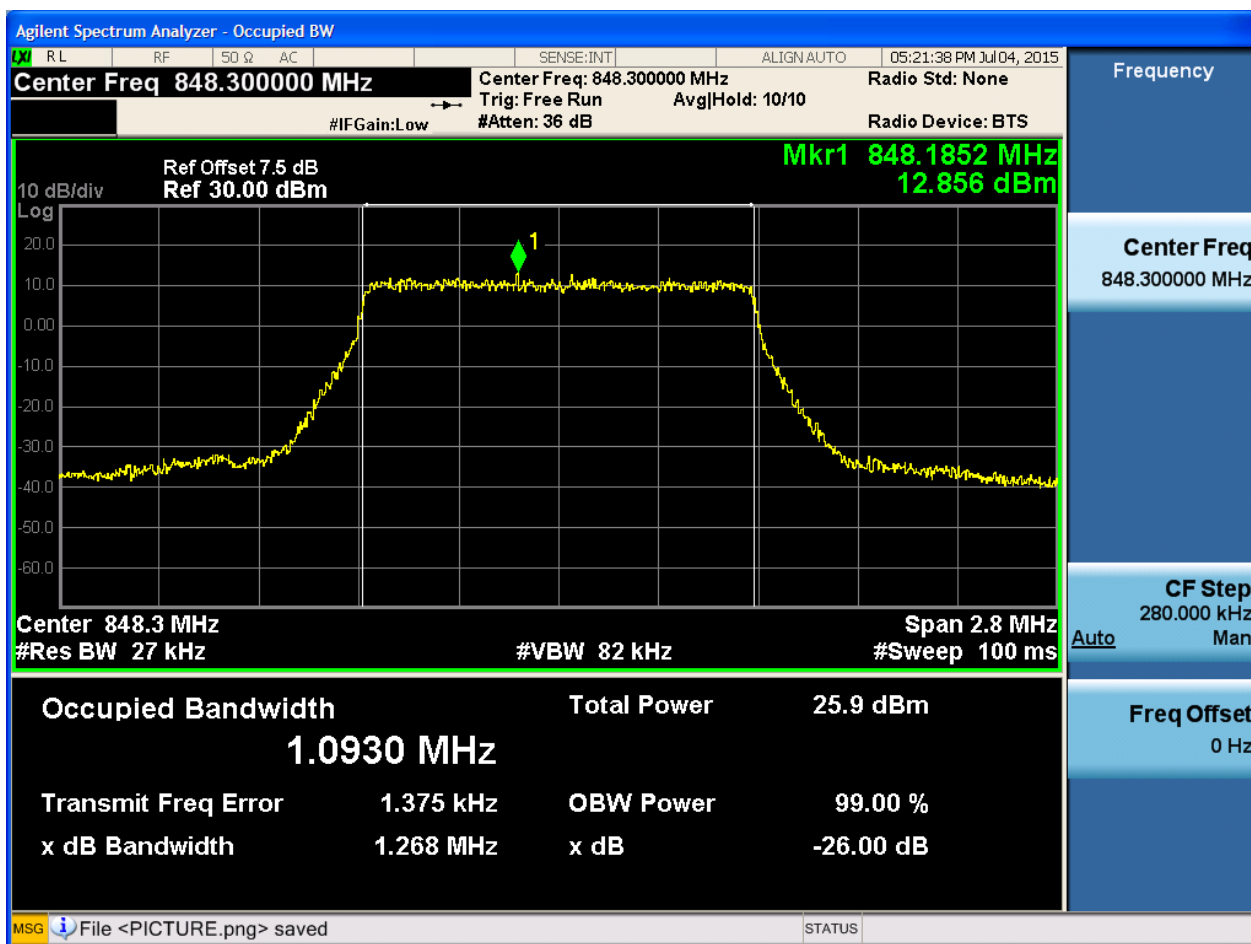
4.1.1.2.1.2 Test Channel = MCH

4.1.1.2.1.2.1 Test RB = RB6#0



4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

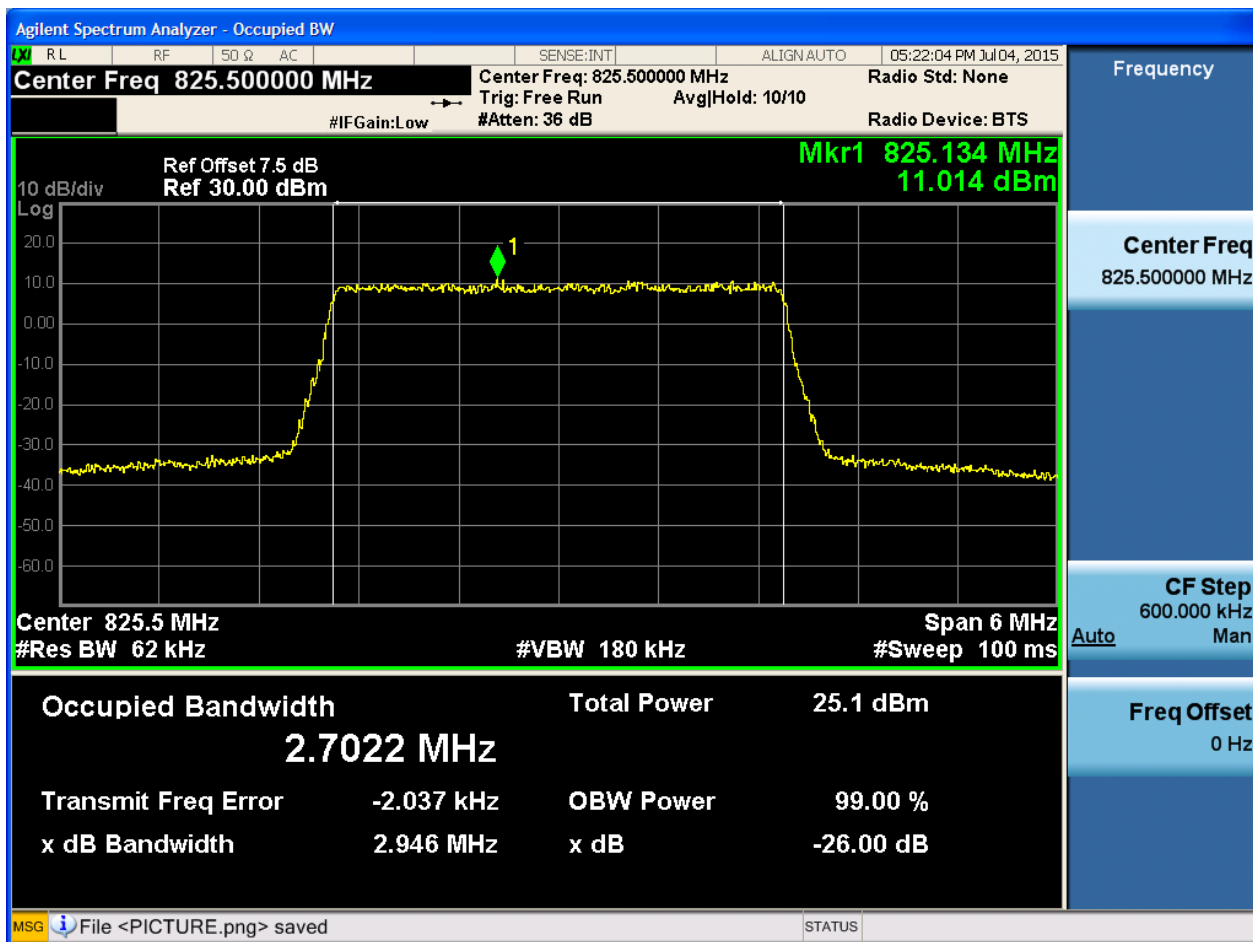




4.1.1.2.2 Test Bandwidth = 3

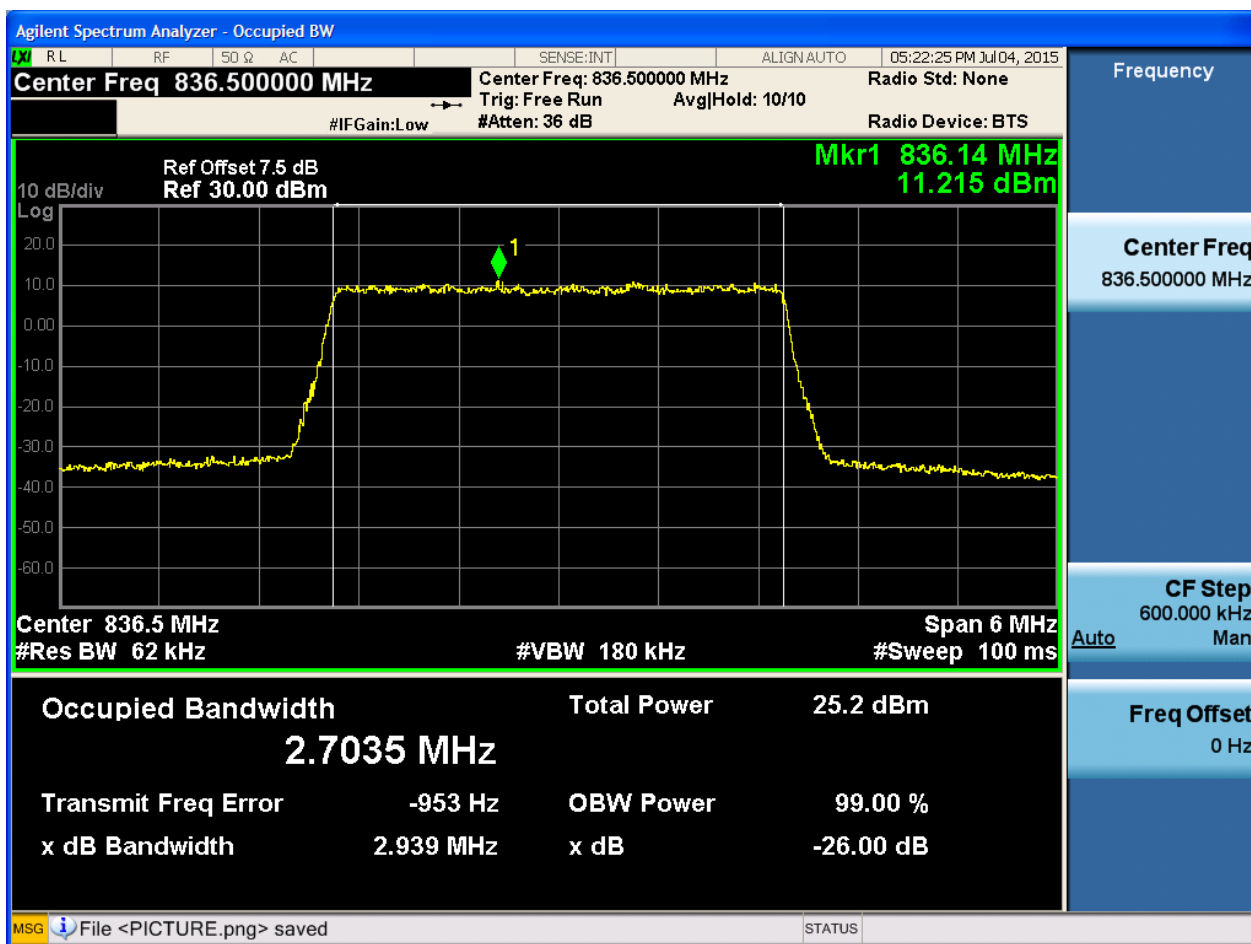
4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB15#0



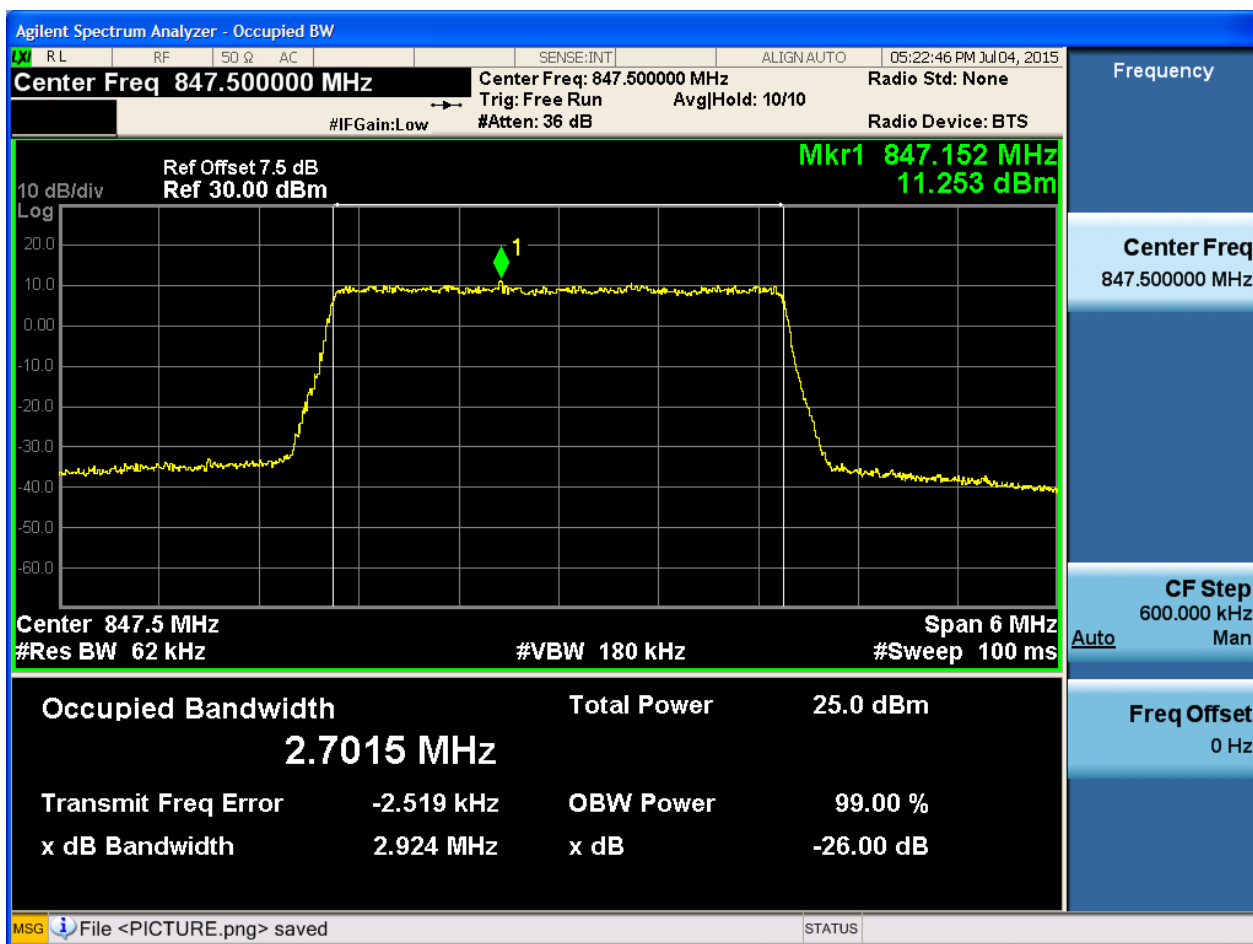
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.1 Test RB = RB15#0



4.1.1.2.2.3 Test Channel = HCH

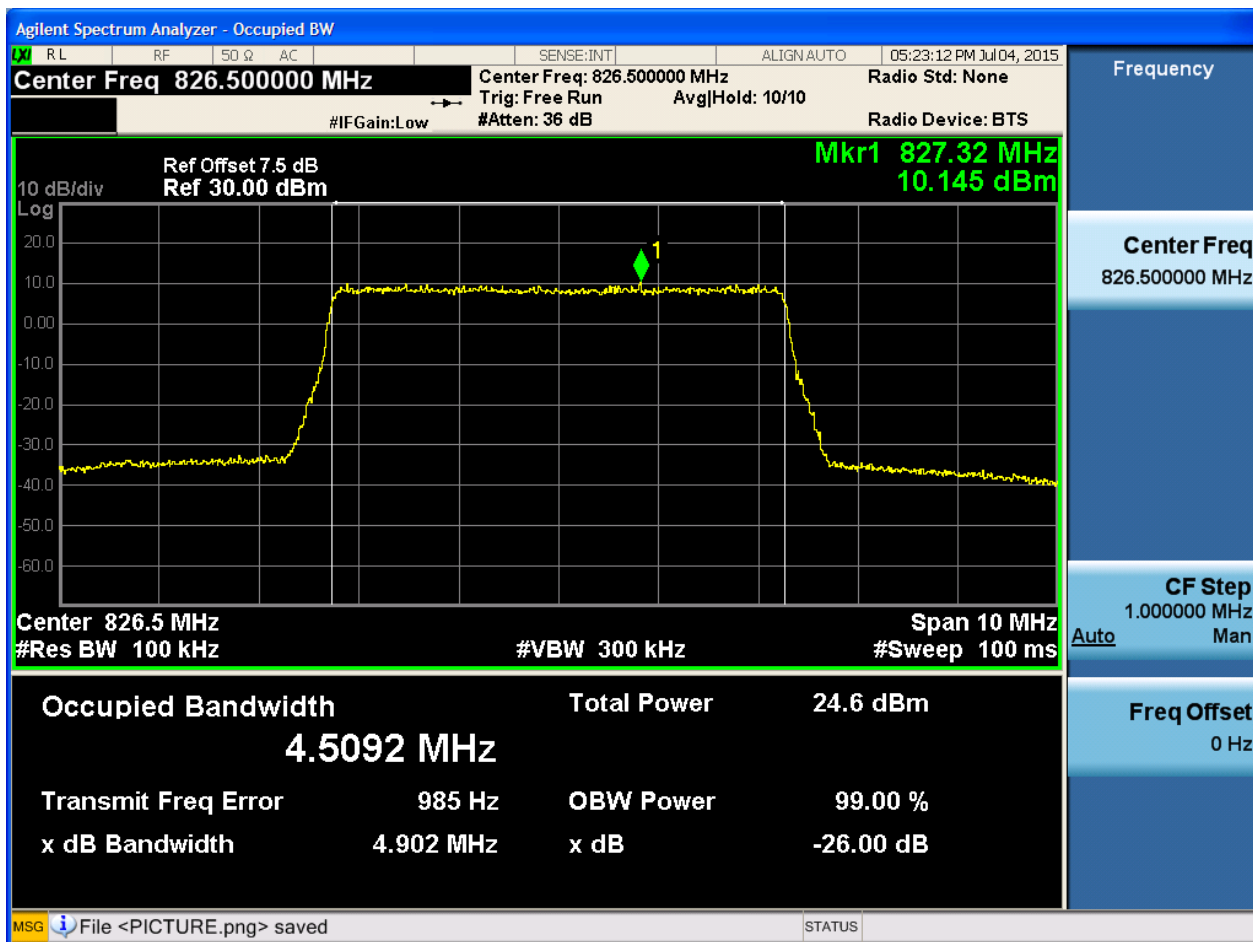
4.1.1.2.2.3.1 Test RB = RB15#0



4.1.1.2.3 Test Bandwidth = 5

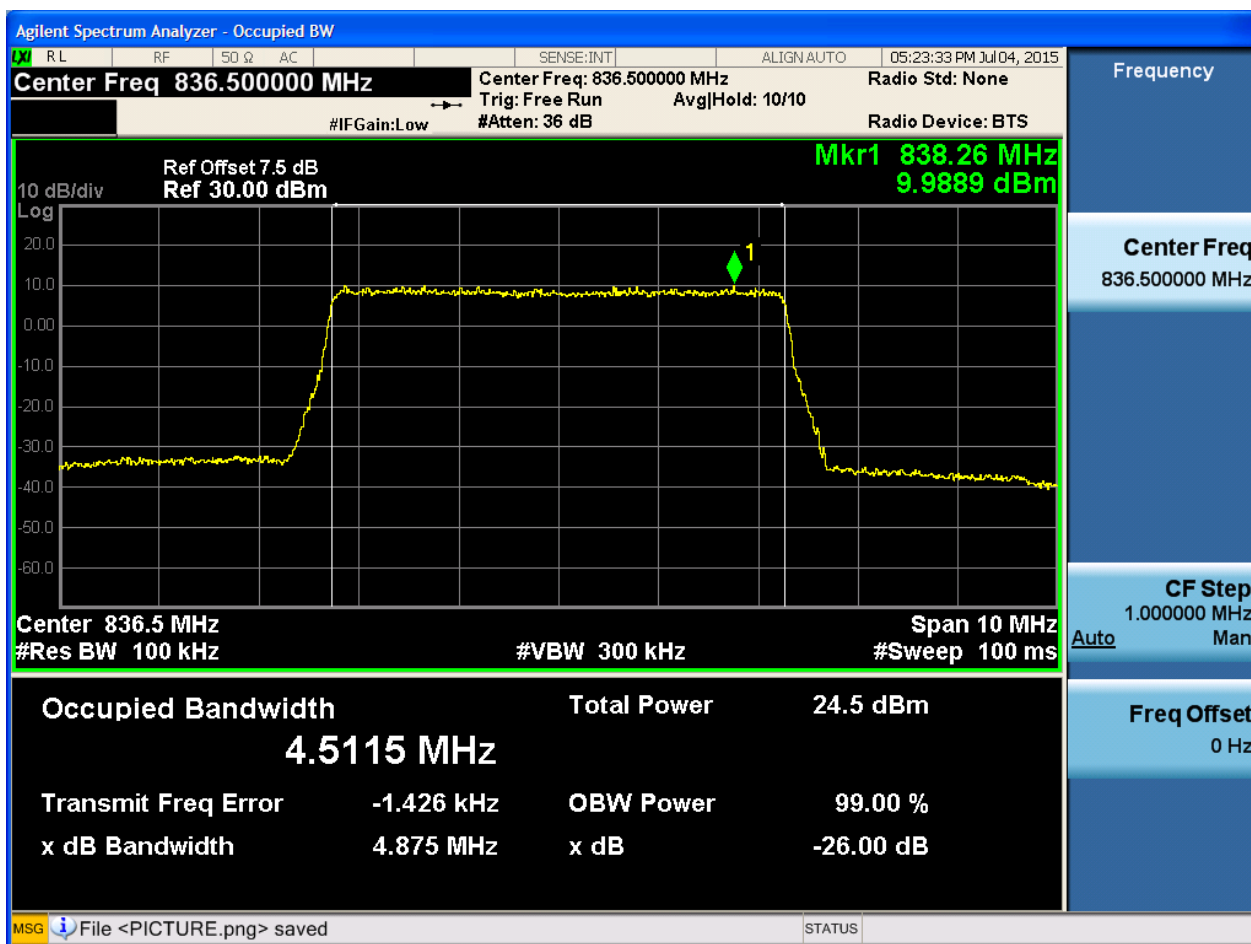
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB25#0



4.1.1.2.3.2 Test Channel = MCH

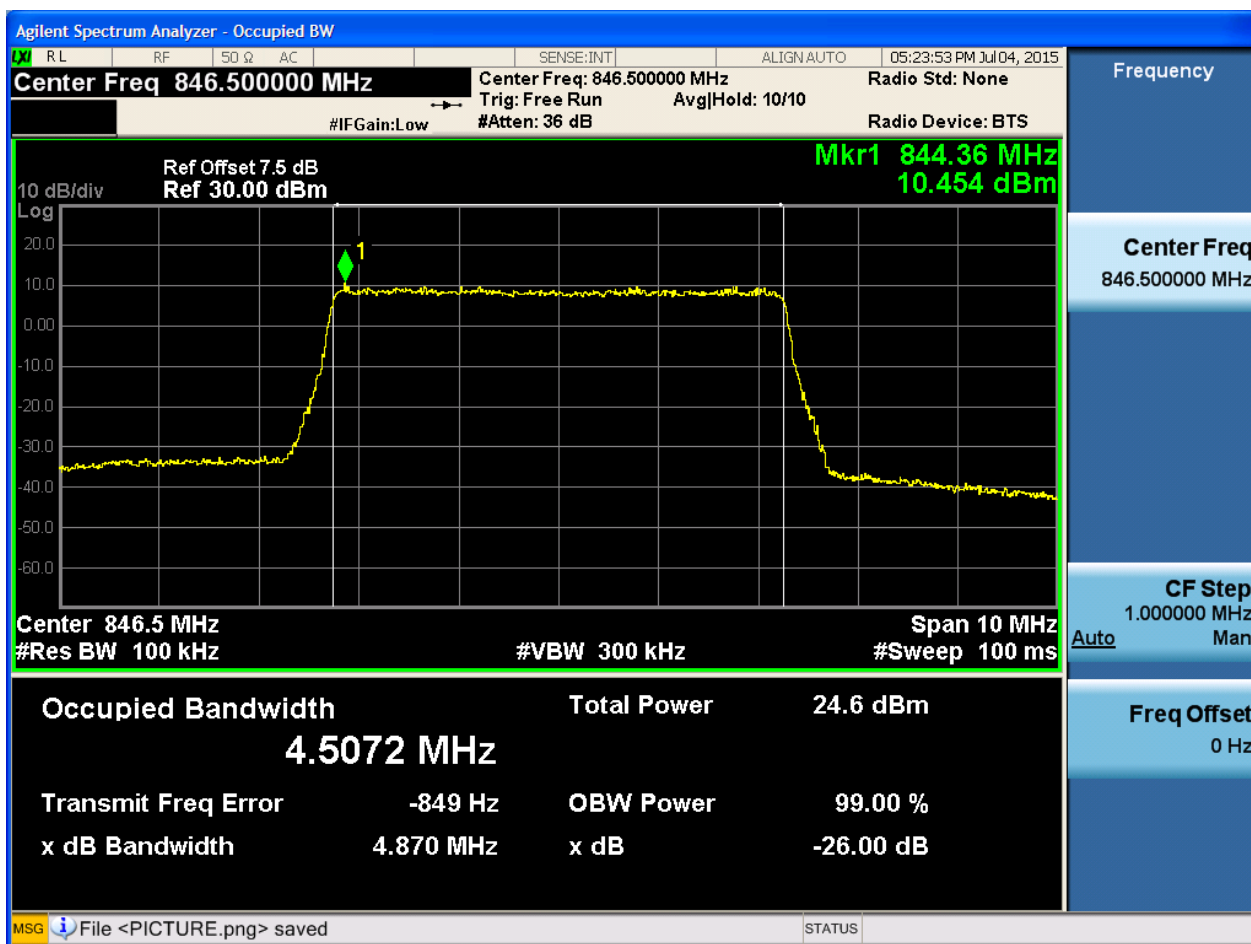
4.1.1.2.3.2.1 Test RB = RB25#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0

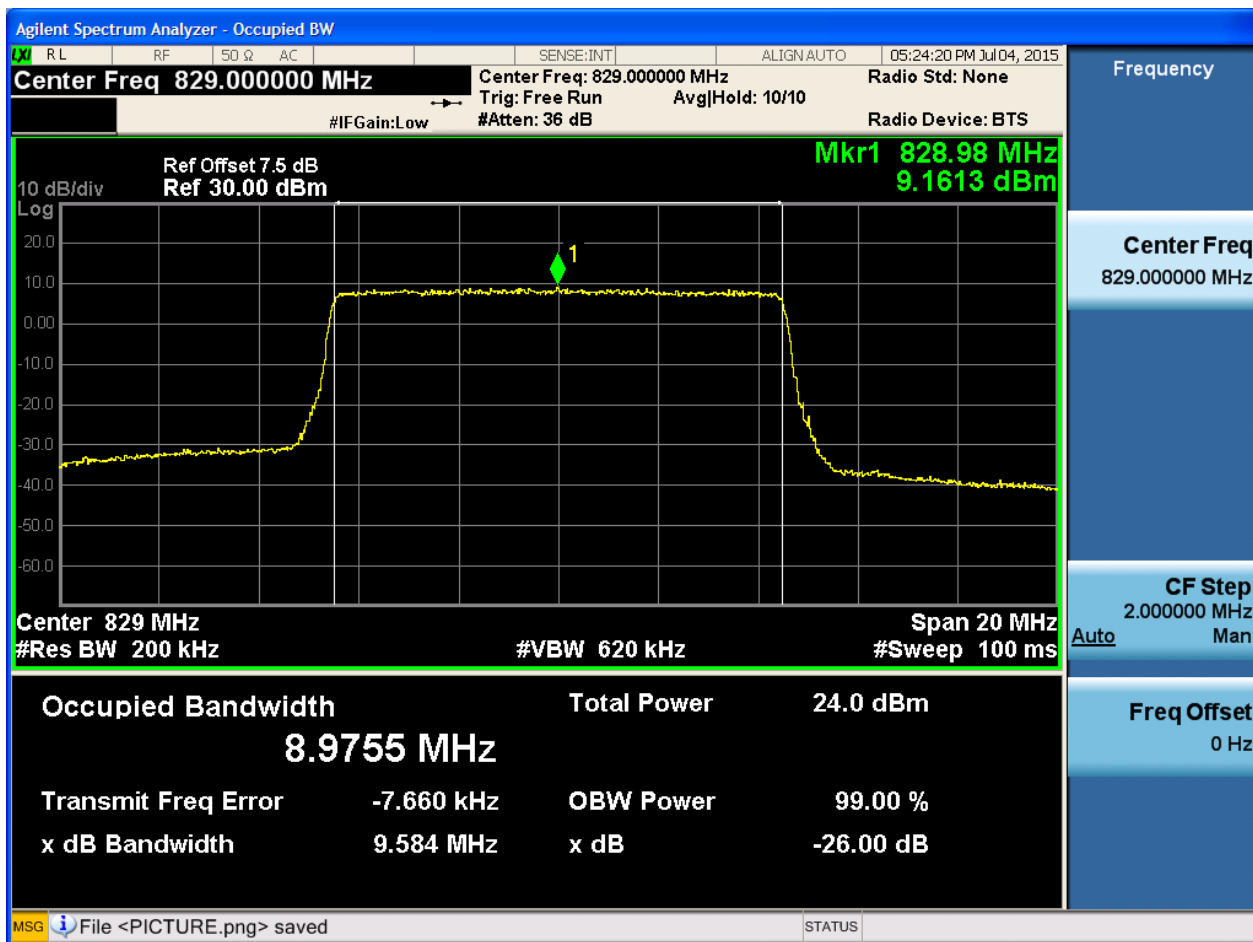




4.1.1.2.4 Test Bandwidth = 10

4.1.1.2.4.1 Test Channel = LCH

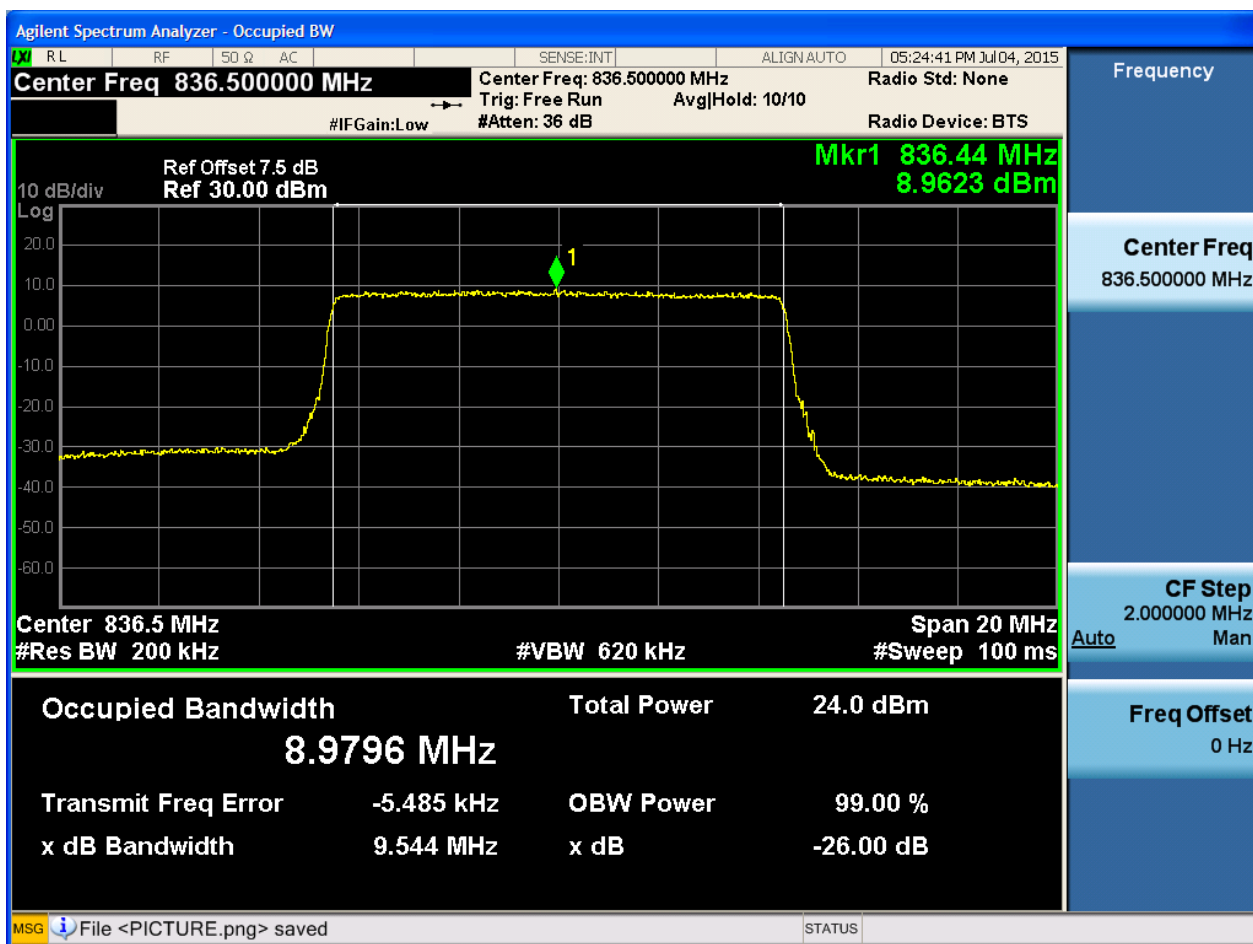
4.1.1.2.4.1.1 Test RB = RB50#0





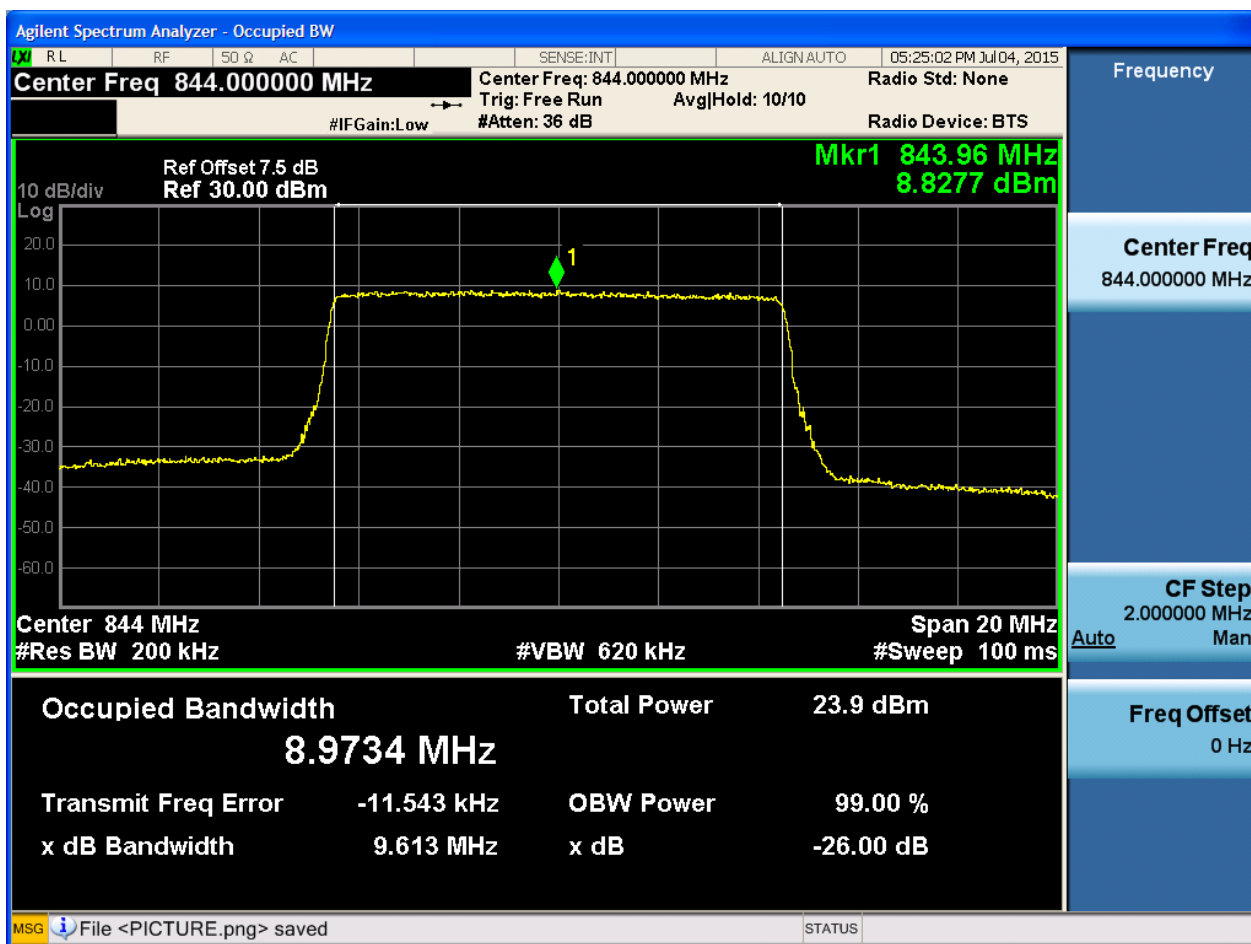
4.1.1.2.4.2 Test Channel = MCH

4.1.1.2.4.2.1 Test RB = RB50#0



4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB50#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

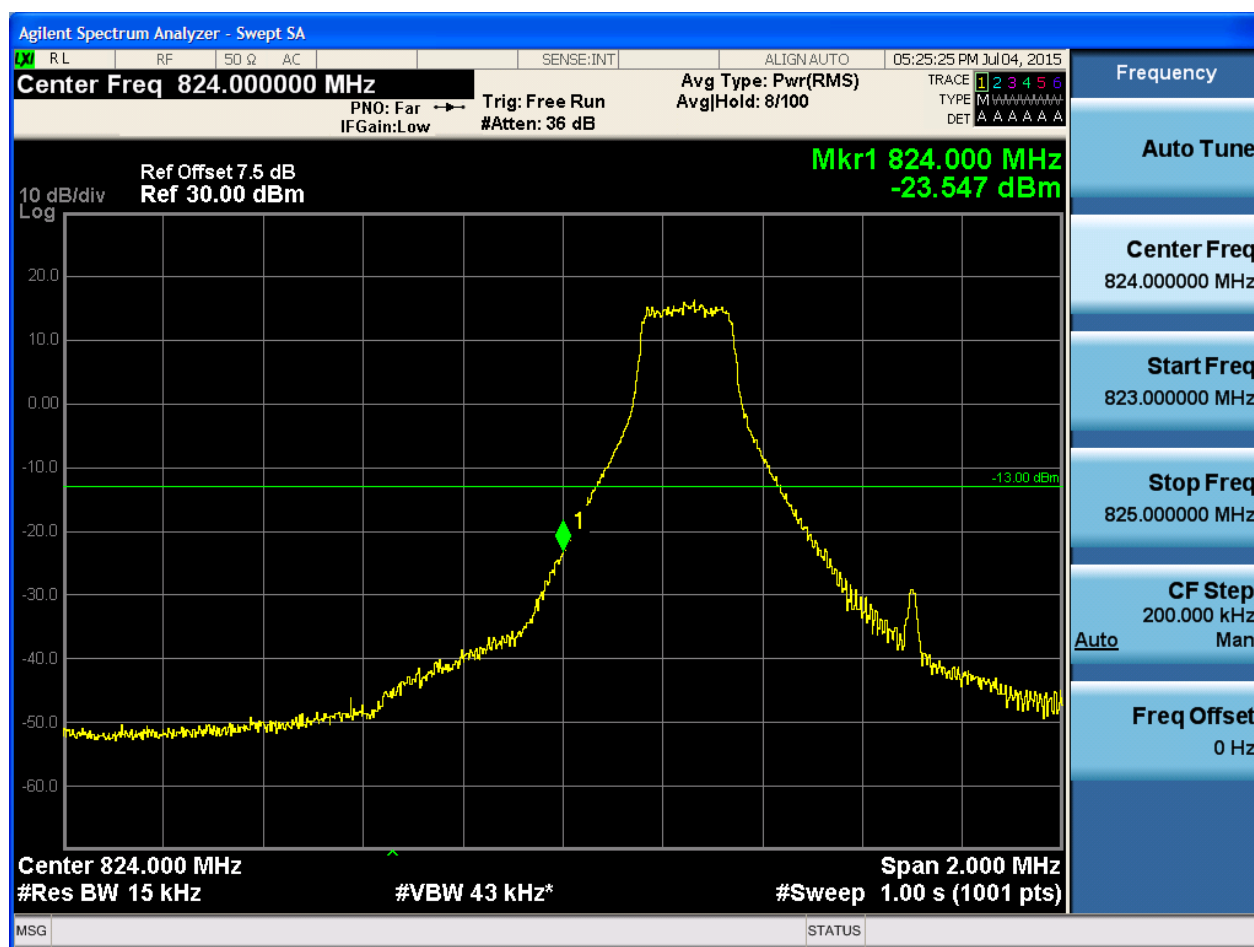
5.1.1 Test Band = BAND5

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 1.4

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



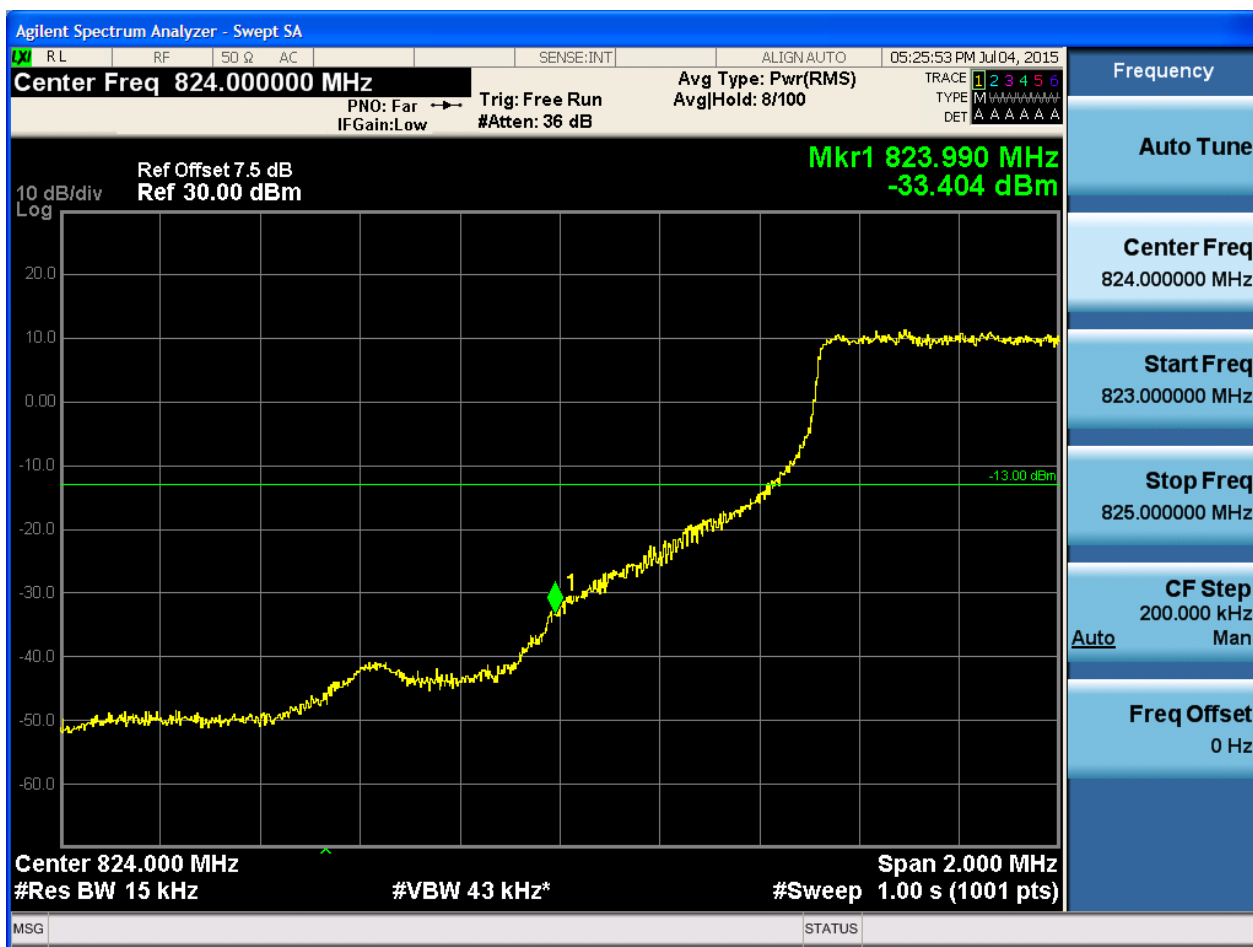


5.1.1.1.1.2 Test RB = RB1#5



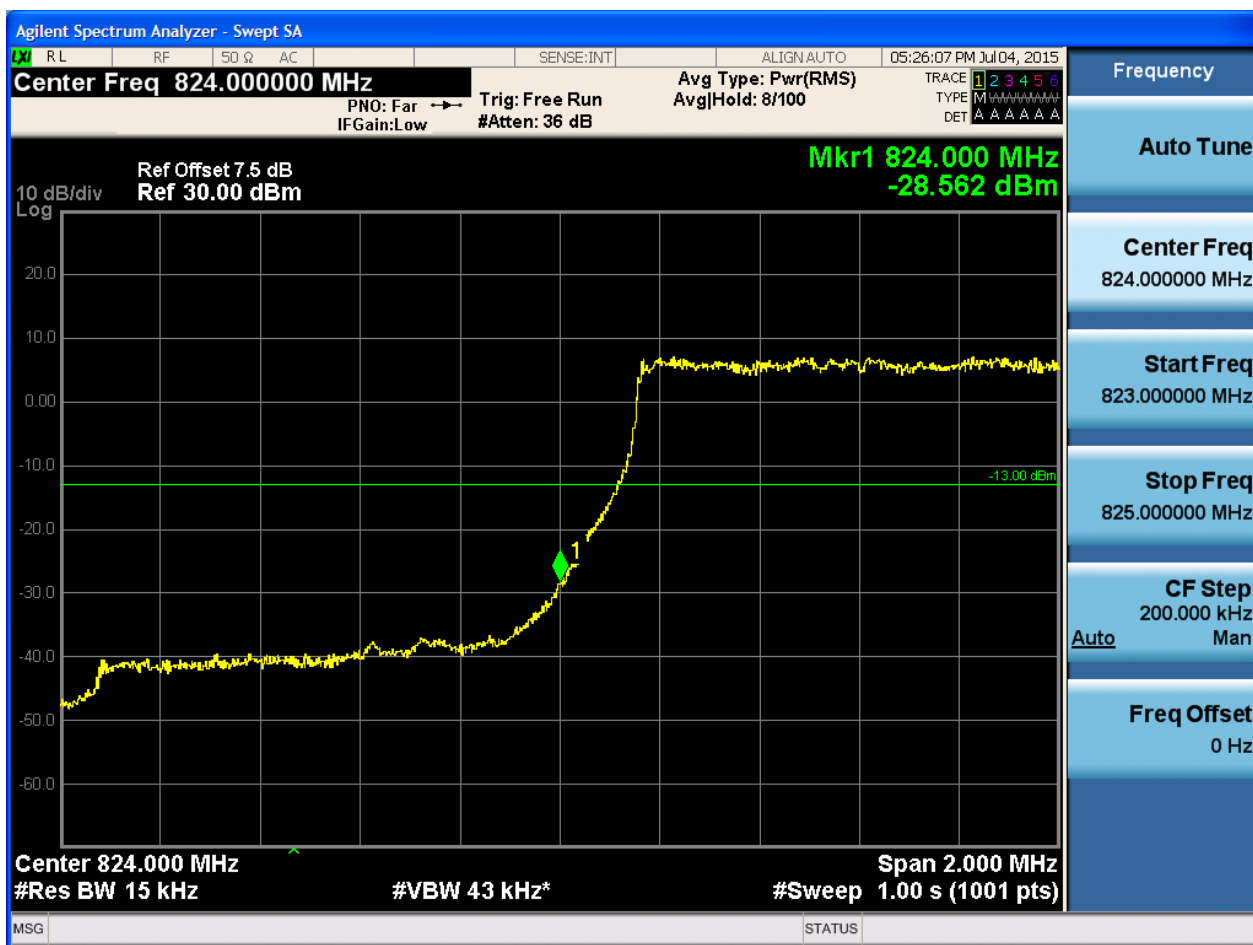


5.1.1.1.1.3 Test RB = RB3#2





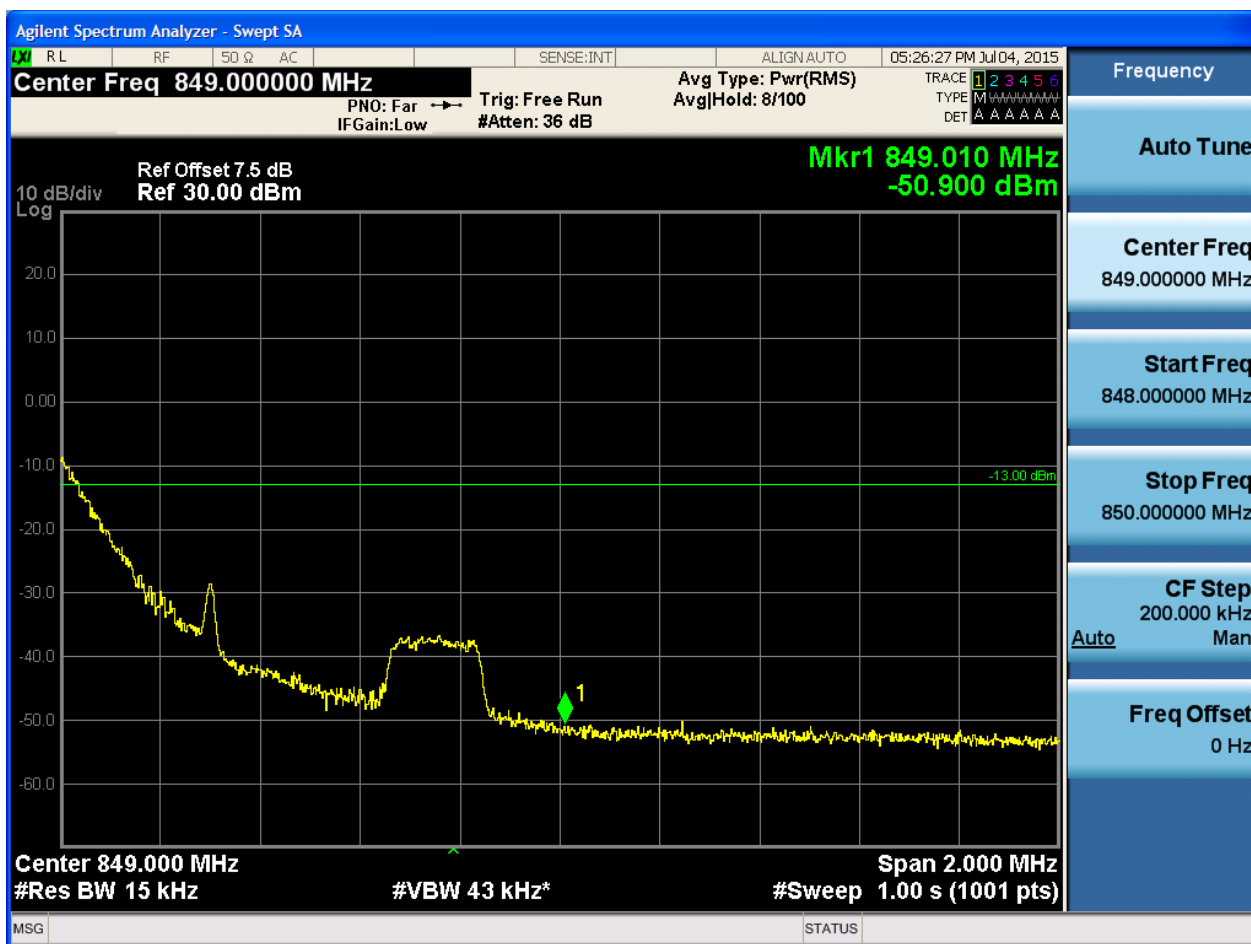
5.1.1.1.1.4 Test RB = RB6#0





5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.000 MHz
-23.816 dBm

Center 849.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz



5.1.1.1.1.2.3 Test RB = RB3#2





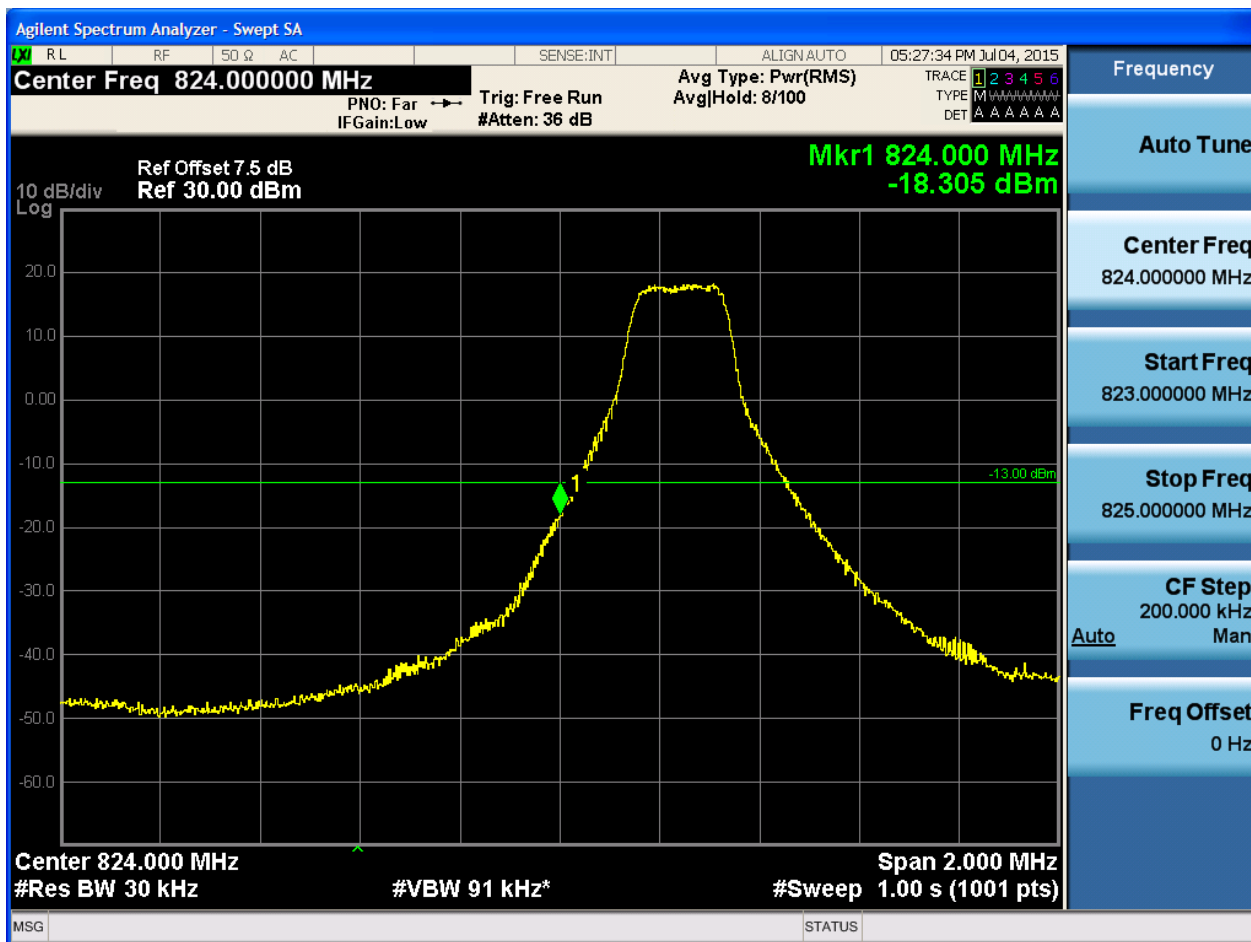
5.1.1.1.2.4 Test RB = RB6#0



5.1.1.1.2 Test Bandwidth = 3

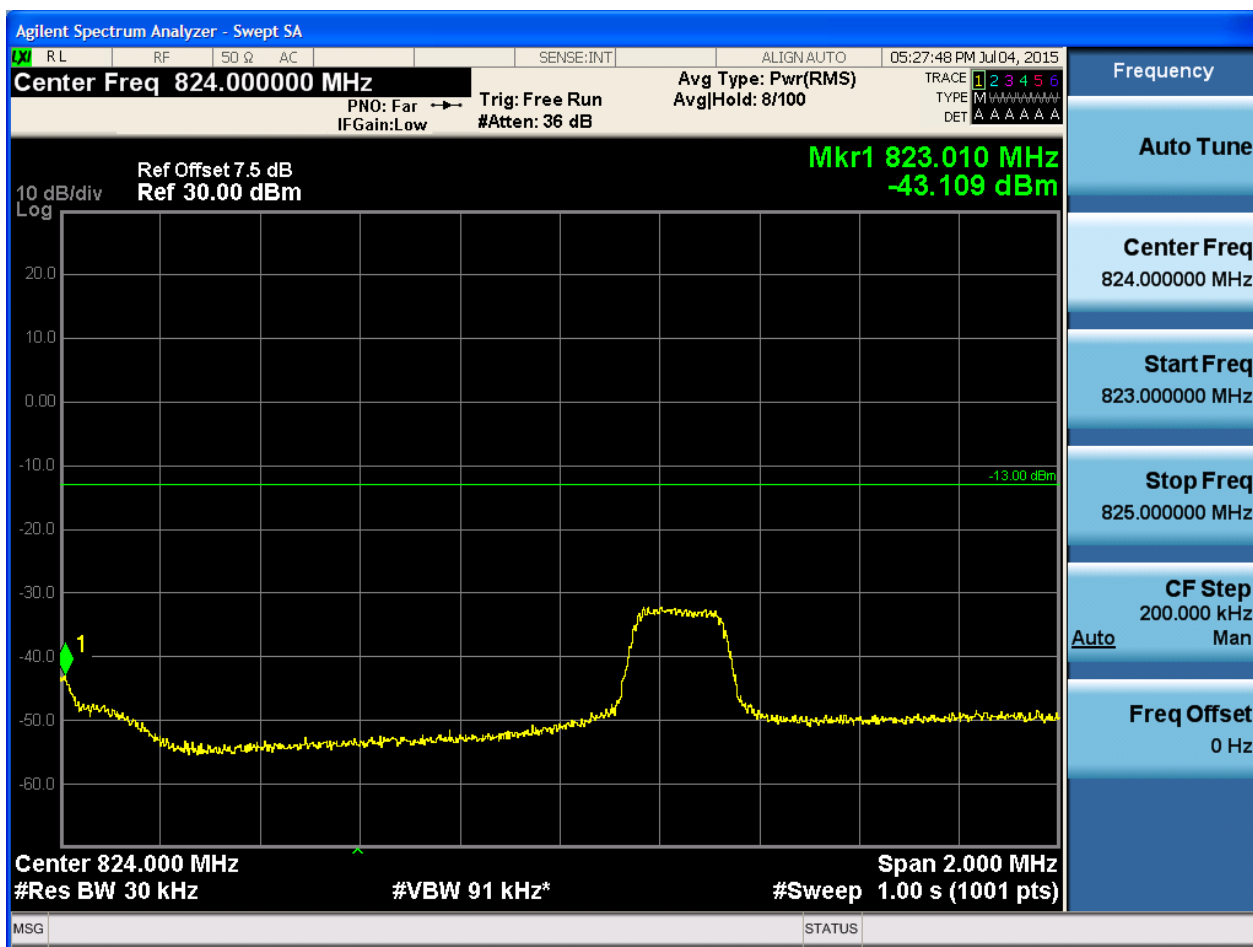
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0



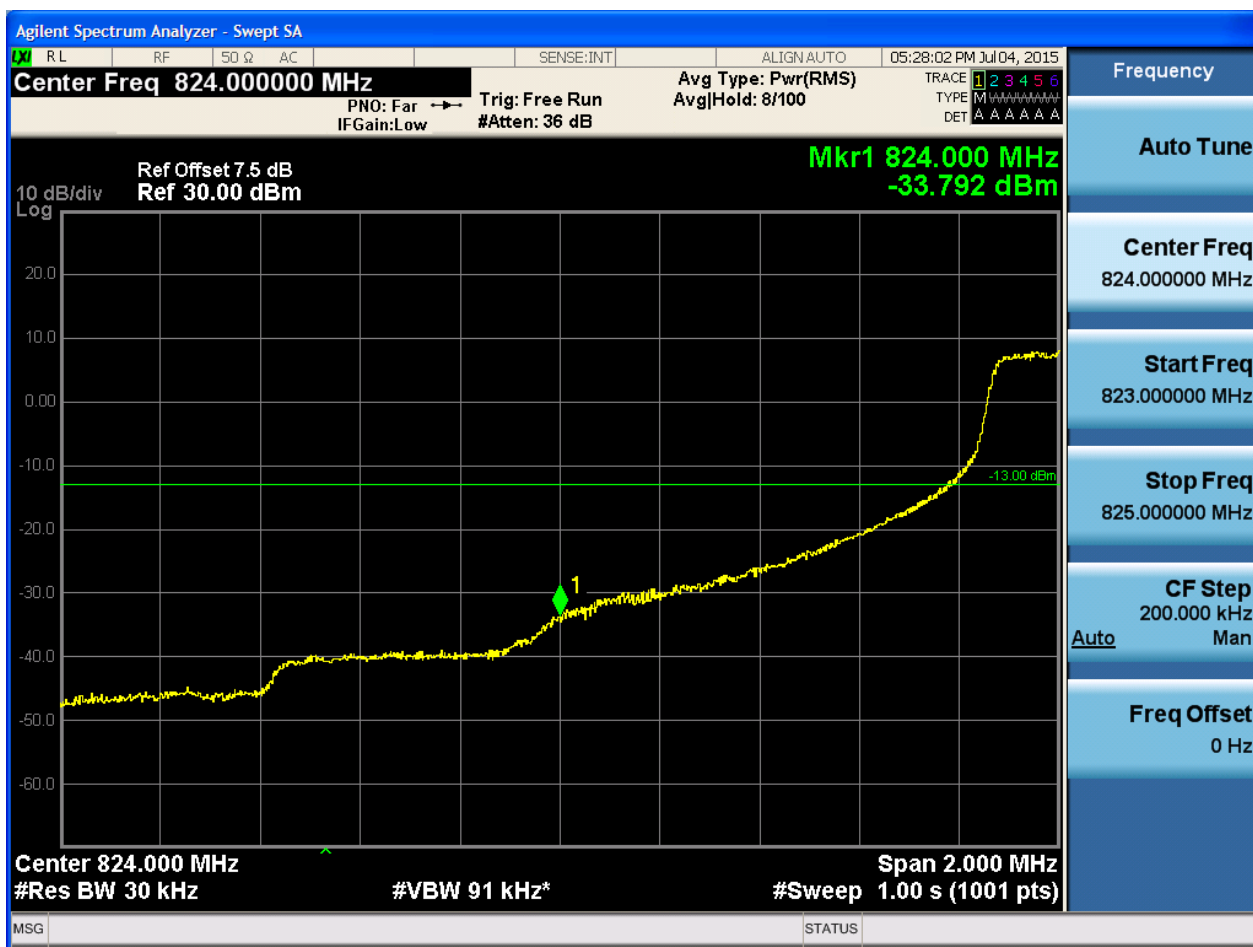


5.1.1.1.2.1.2 Test RB = RB1#14



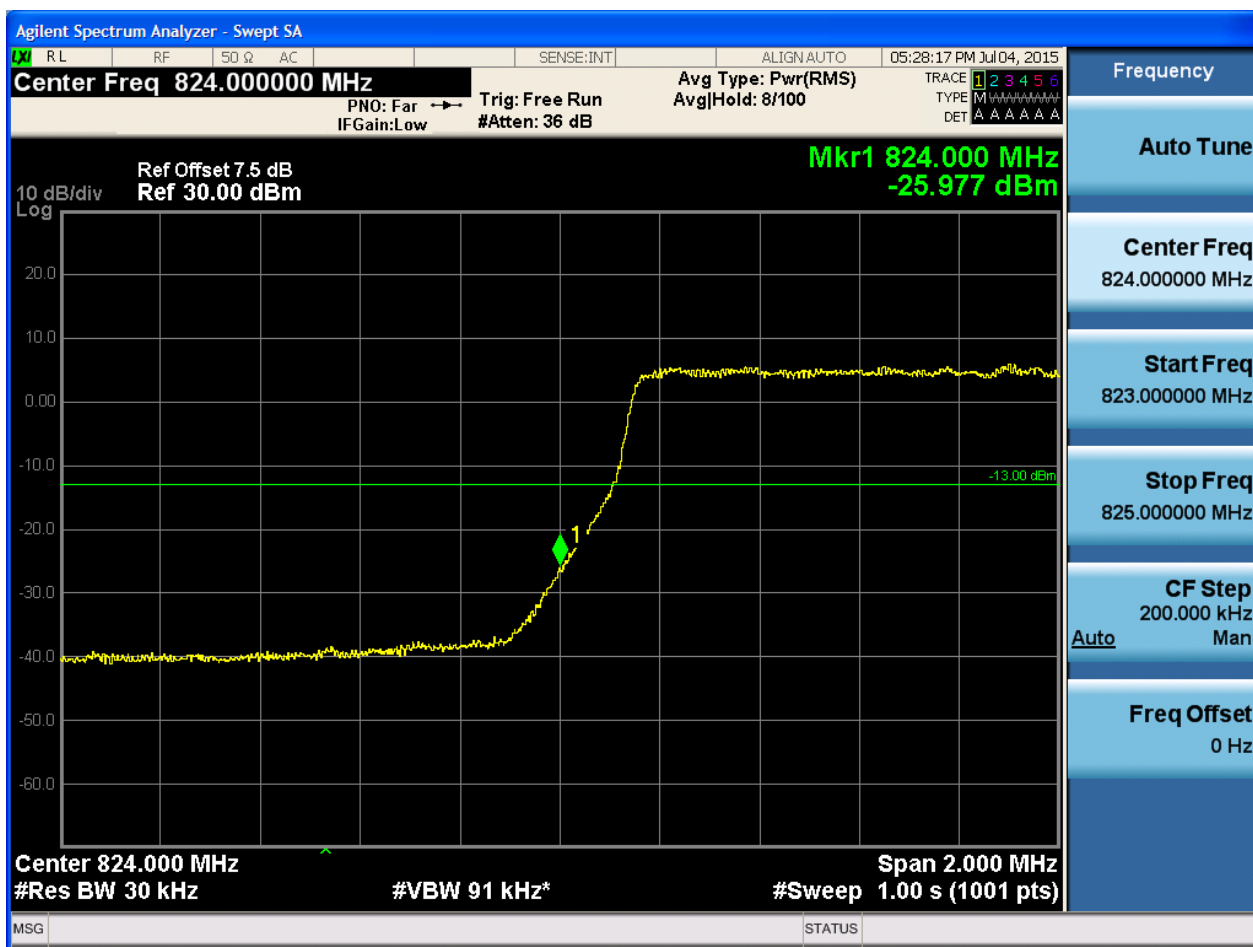


5.1.1.1.2.1.3 Test RB = RB8#4



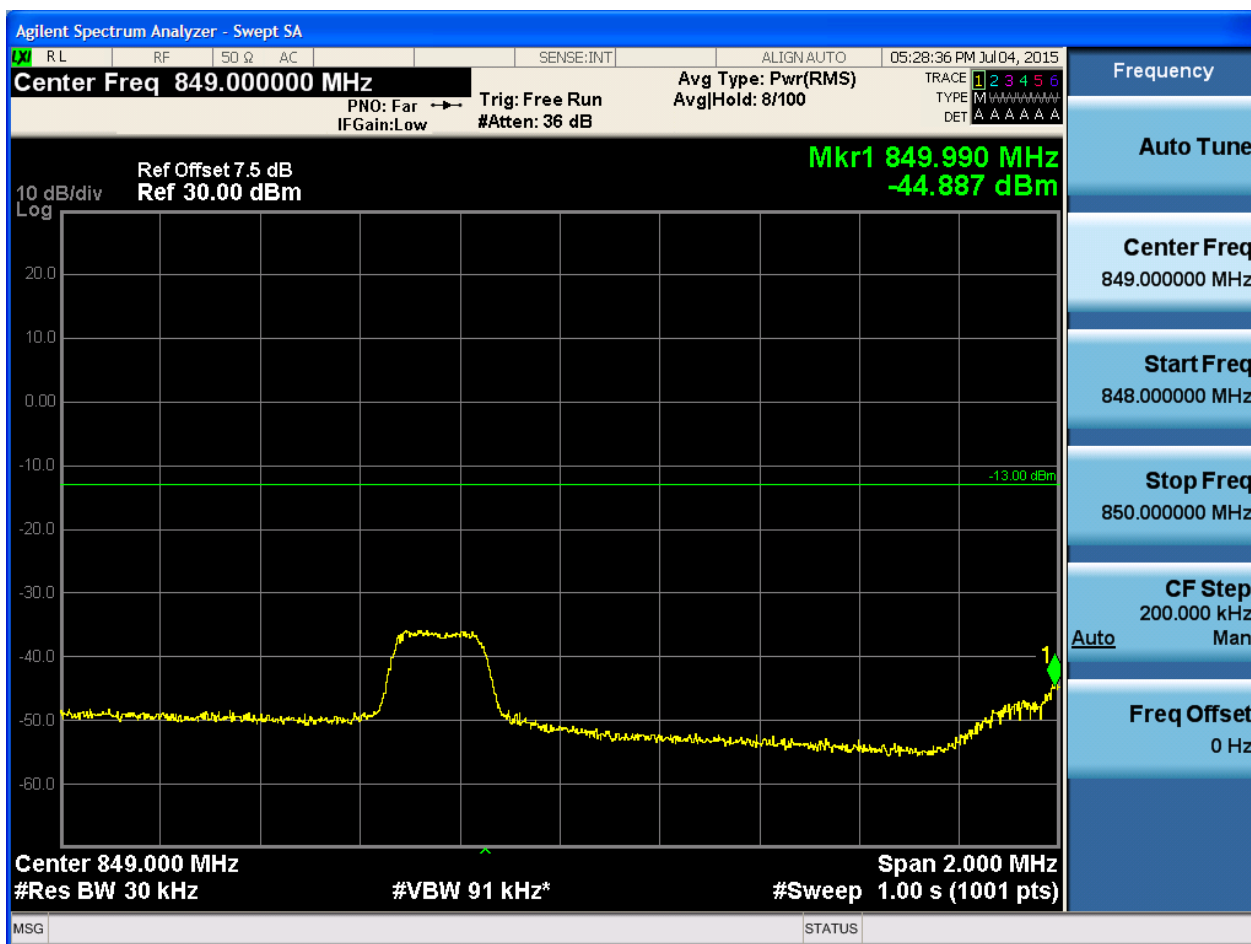


5.1.1.1.2.1.4 Test RB = RB15#0



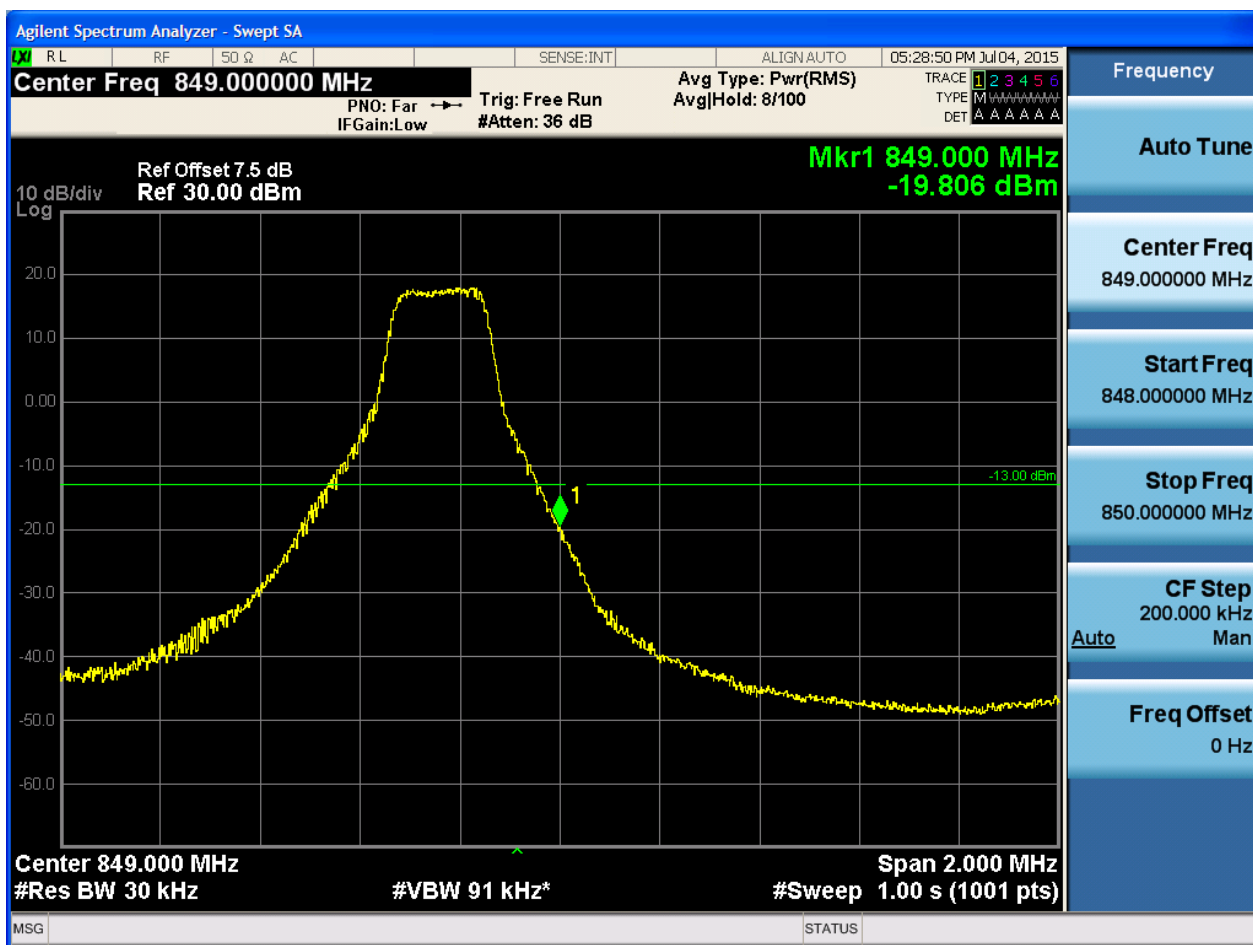
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.000 MHz
-33.846 dBm

Center 849.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz



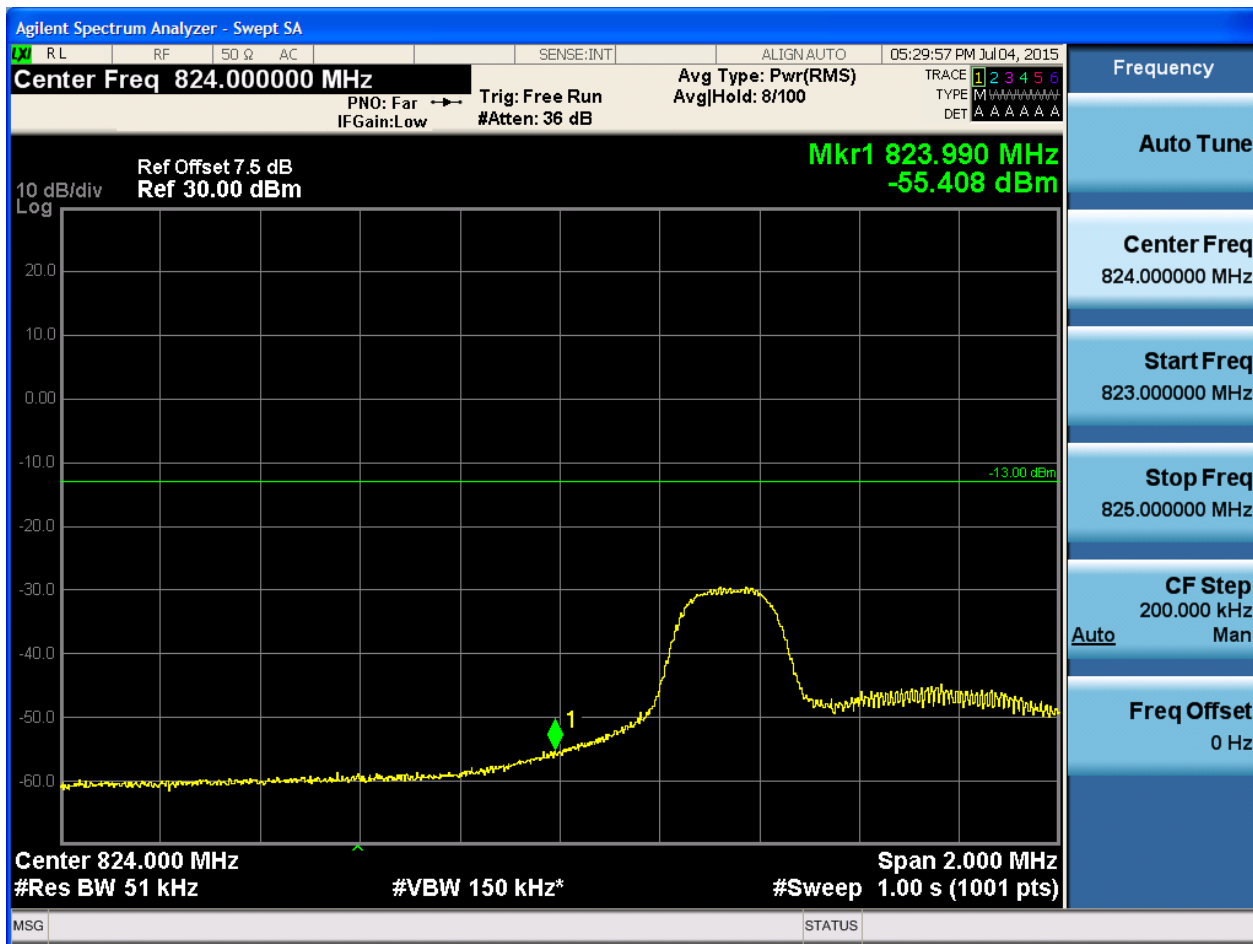
5.1.1.1.2.2.4 Test RB = RB15#0







5.1.1.1.3.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 824.000 MHz
-32.447 dBm

Center 824.000 MHz
#Res BW 51 kHz

#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 MHz

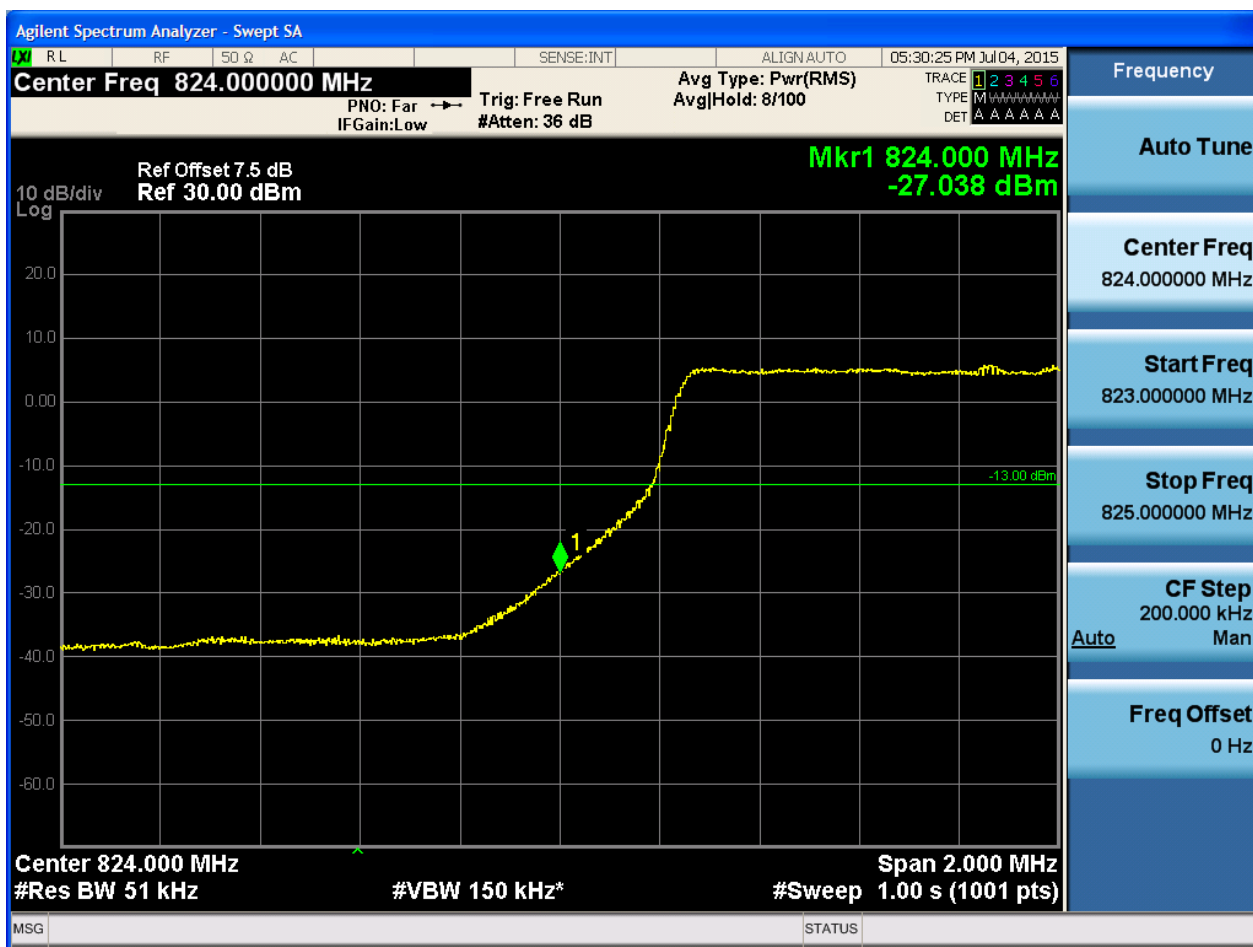
CF Step
200.000 kHz
Man

Auto

Freq Offset
0 Hz

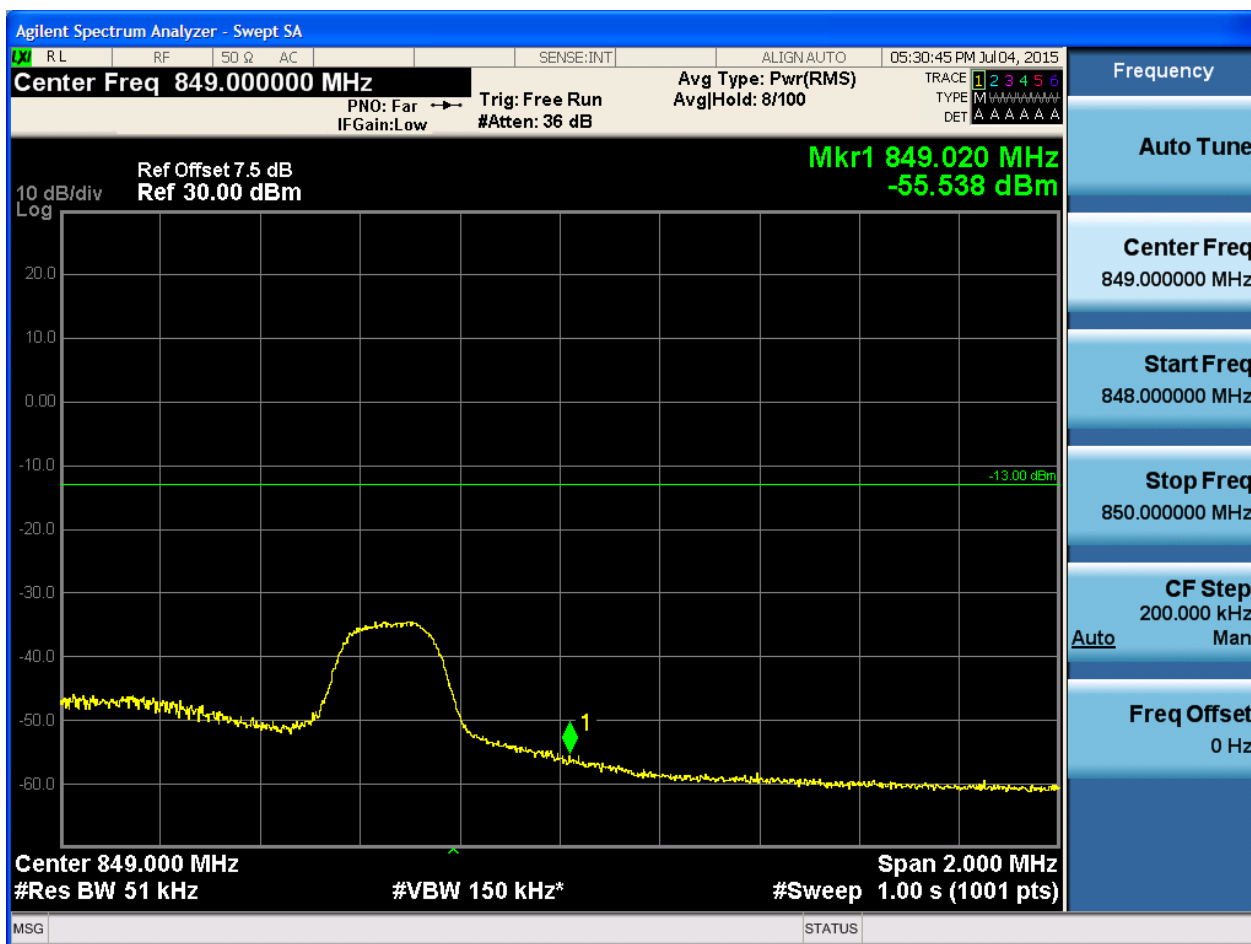


5.1.1.1.3.1.4 Test RB = RB25#0



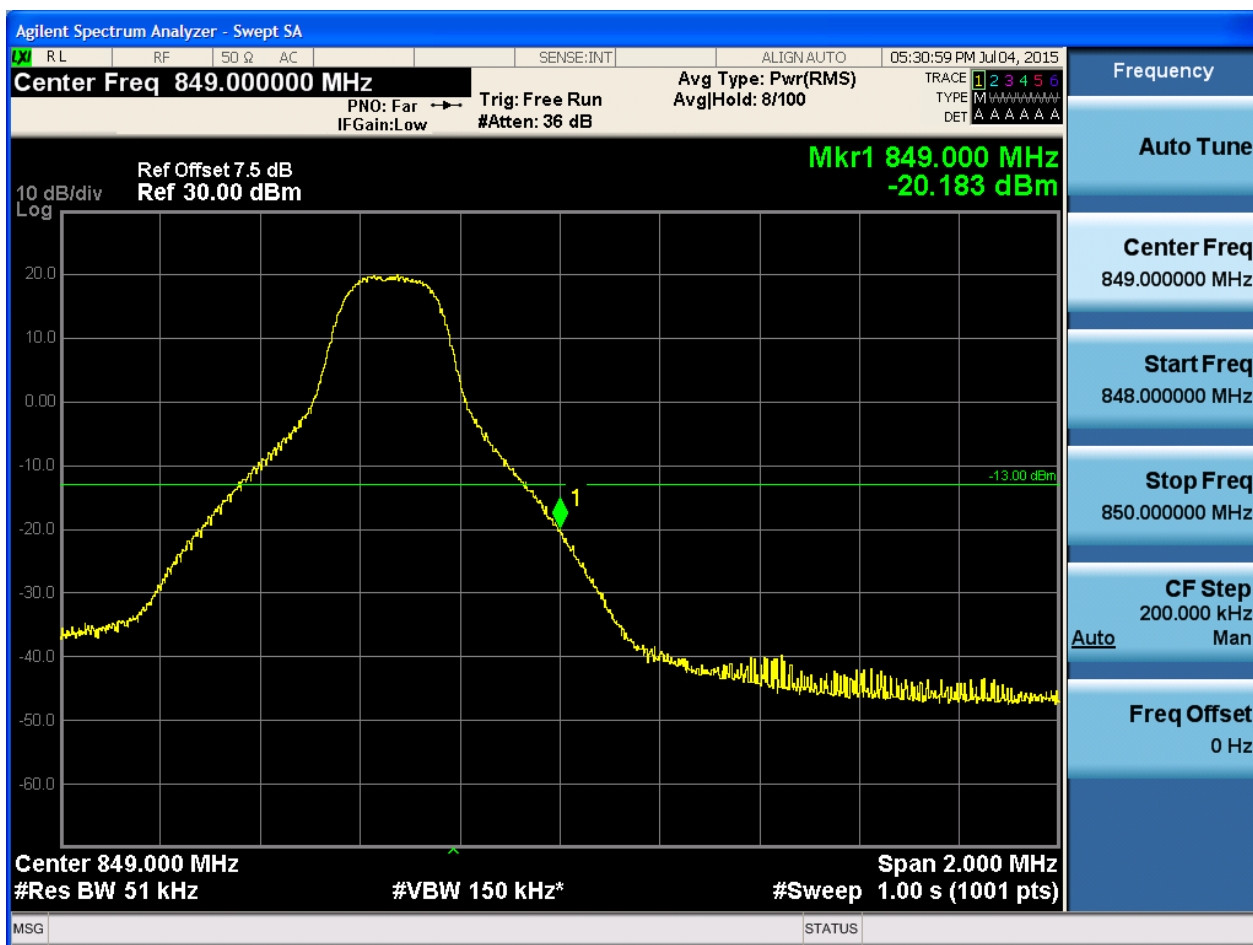
5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#24





5.1.1.1.3.2.3 Test RB = RB12#6





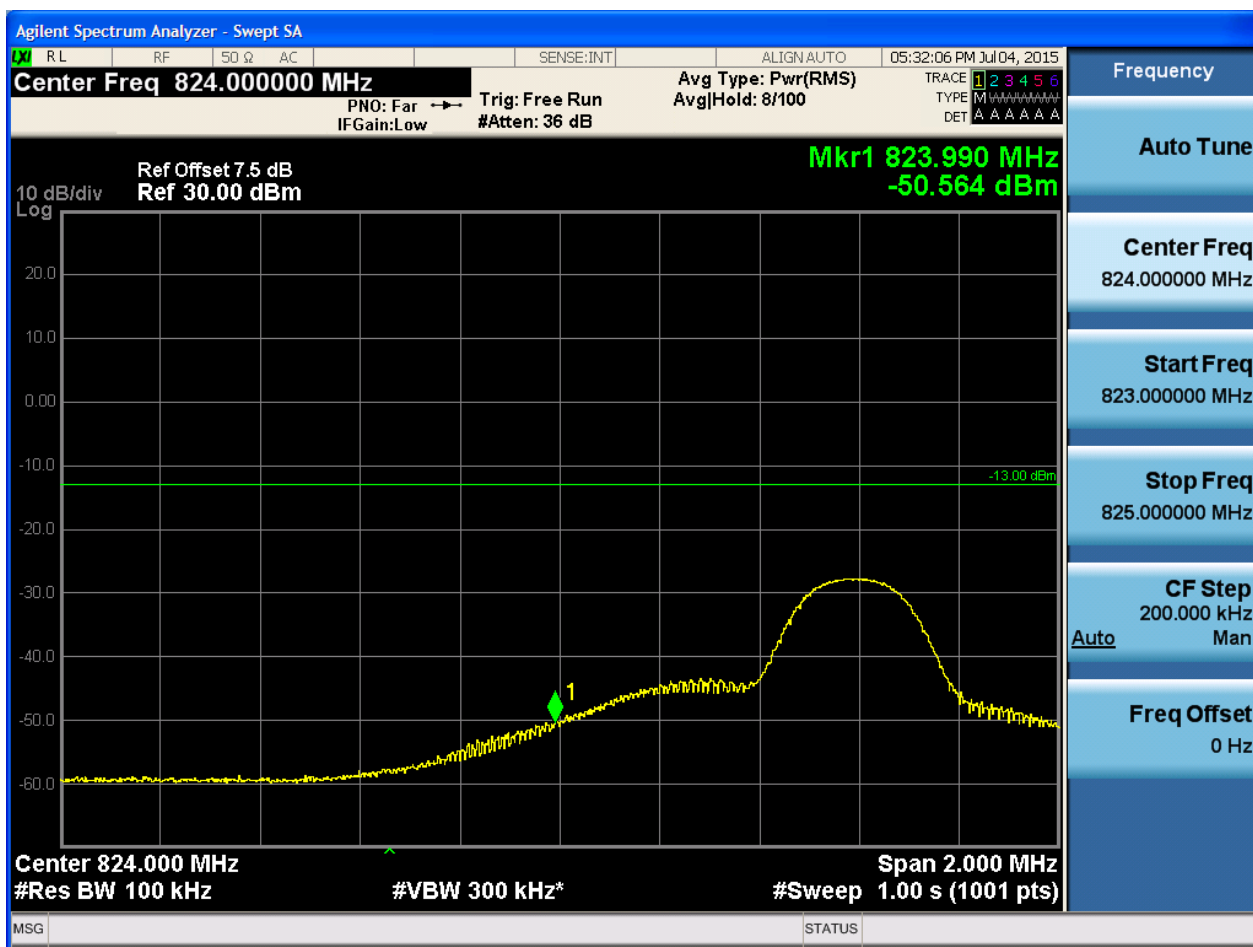
5.1.1.1.3.2.4 Test RB = RB25#0







5.1.1.1.4.1.2 Test RB = RB1#49



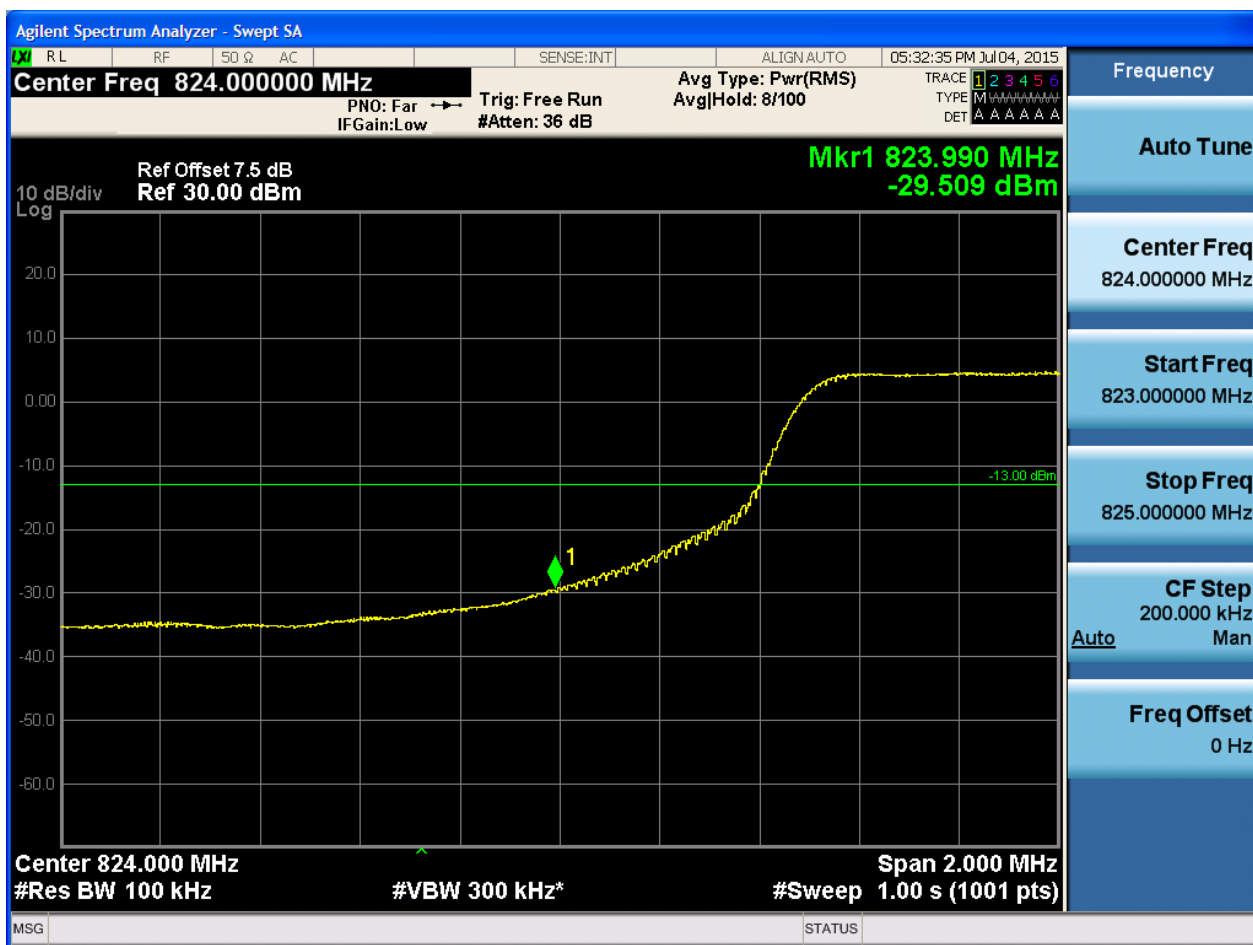


5.1.1.1.4.1.3 Test RB = RB25#13



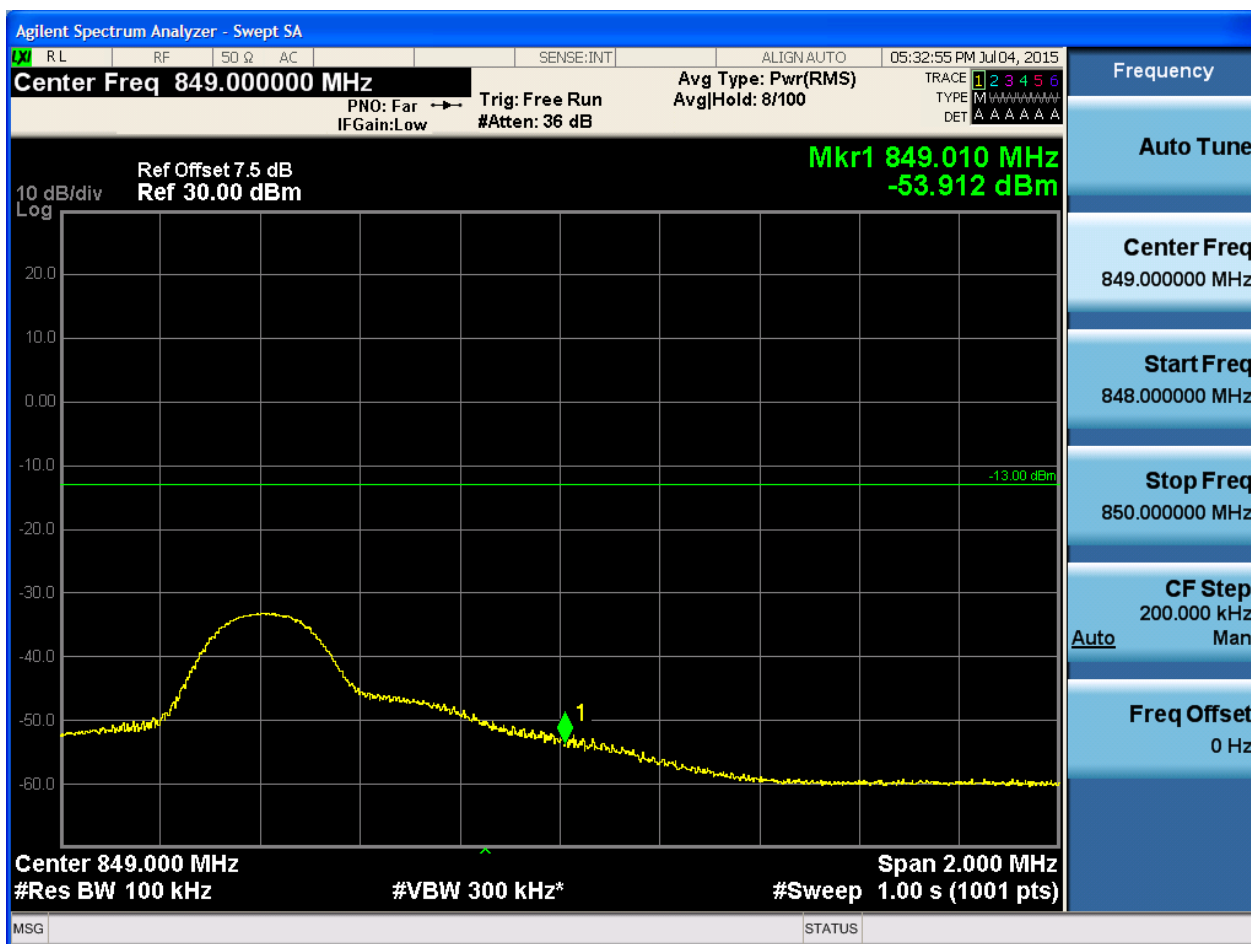


5.1.1.1.4.1.4 Test RB = RB50#0



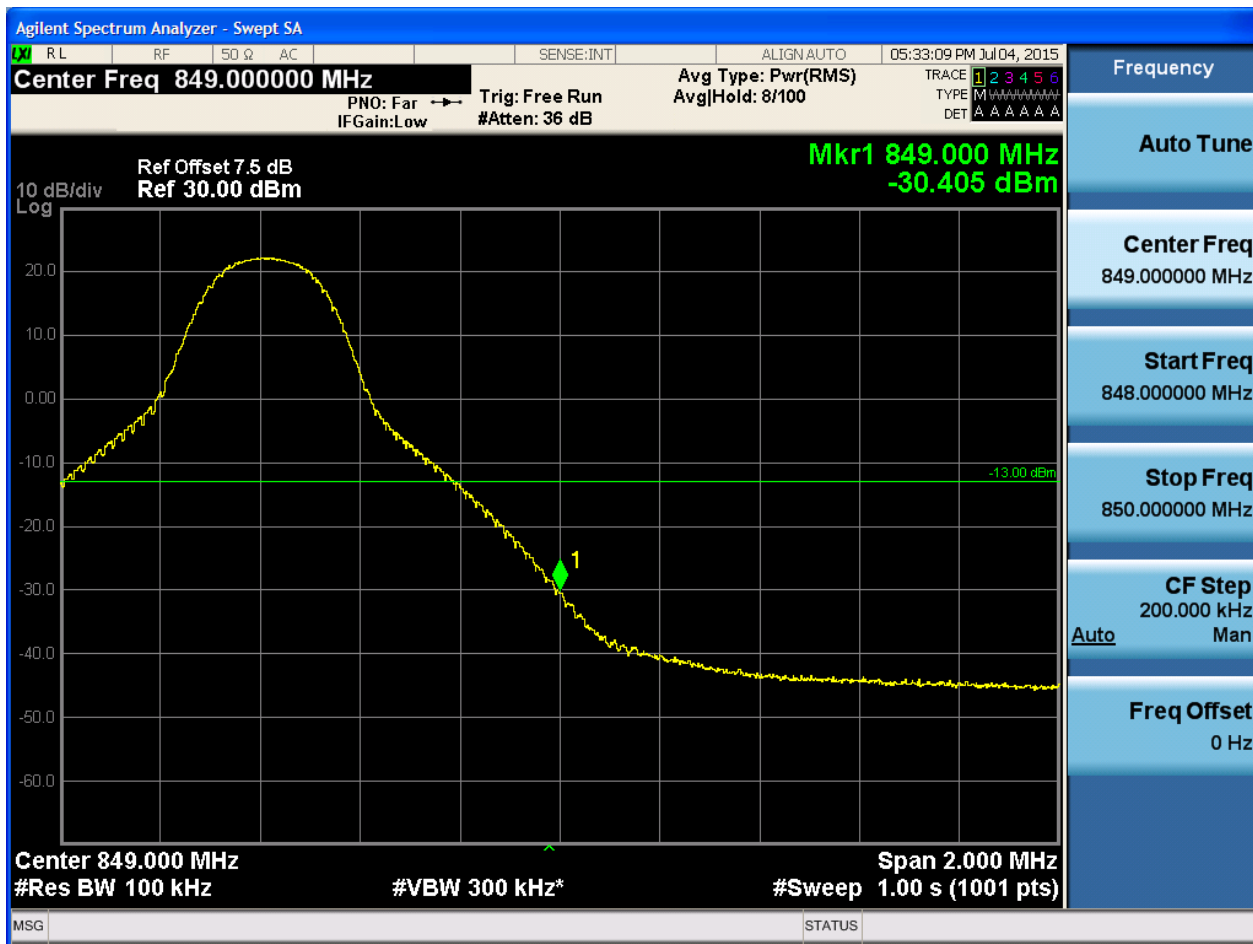
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#49





5.1.1.1.4.2.3 Test RB = RB25#13





5.1.1.1.4.2.4 Test RB = RB50#0

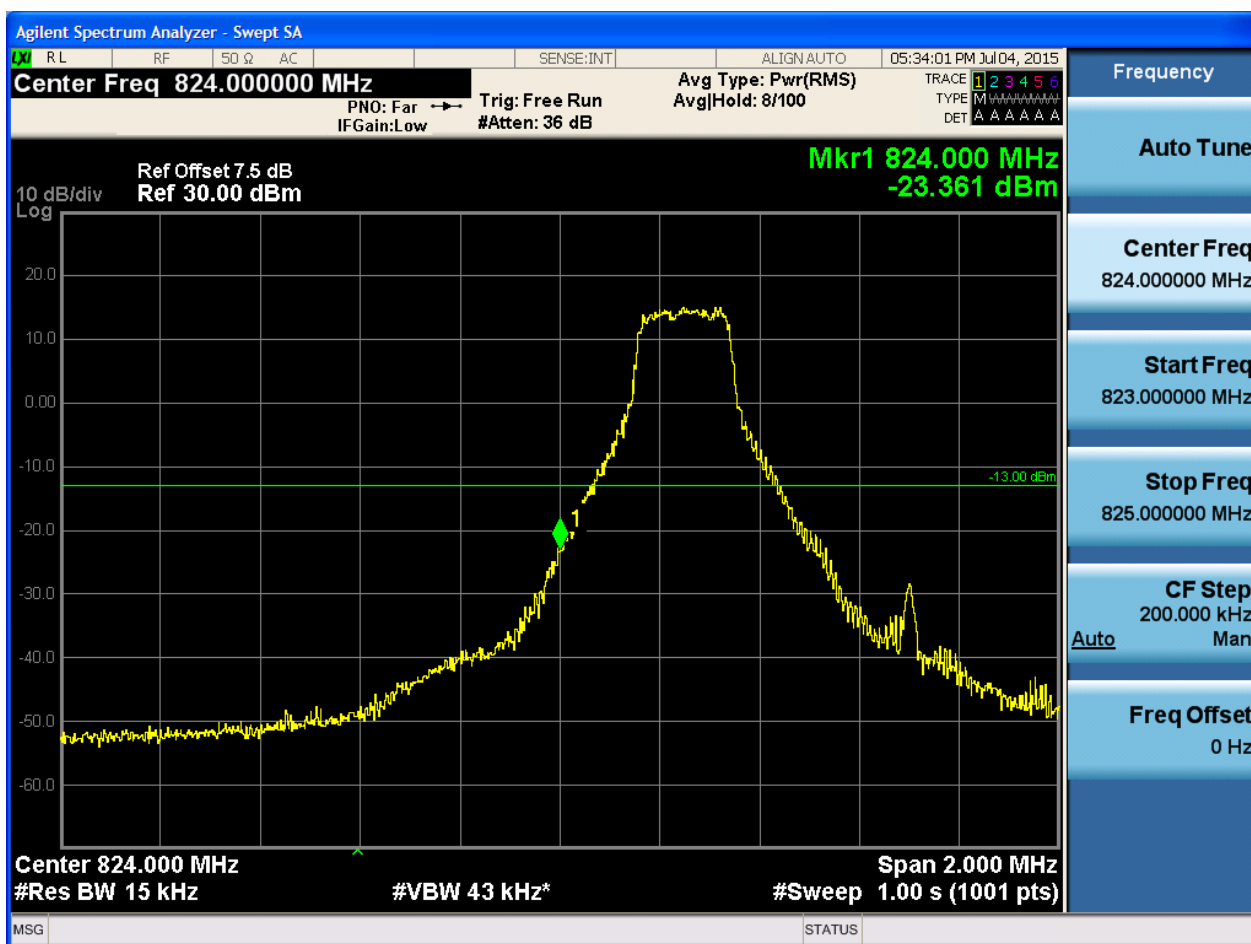


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 1.4

5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



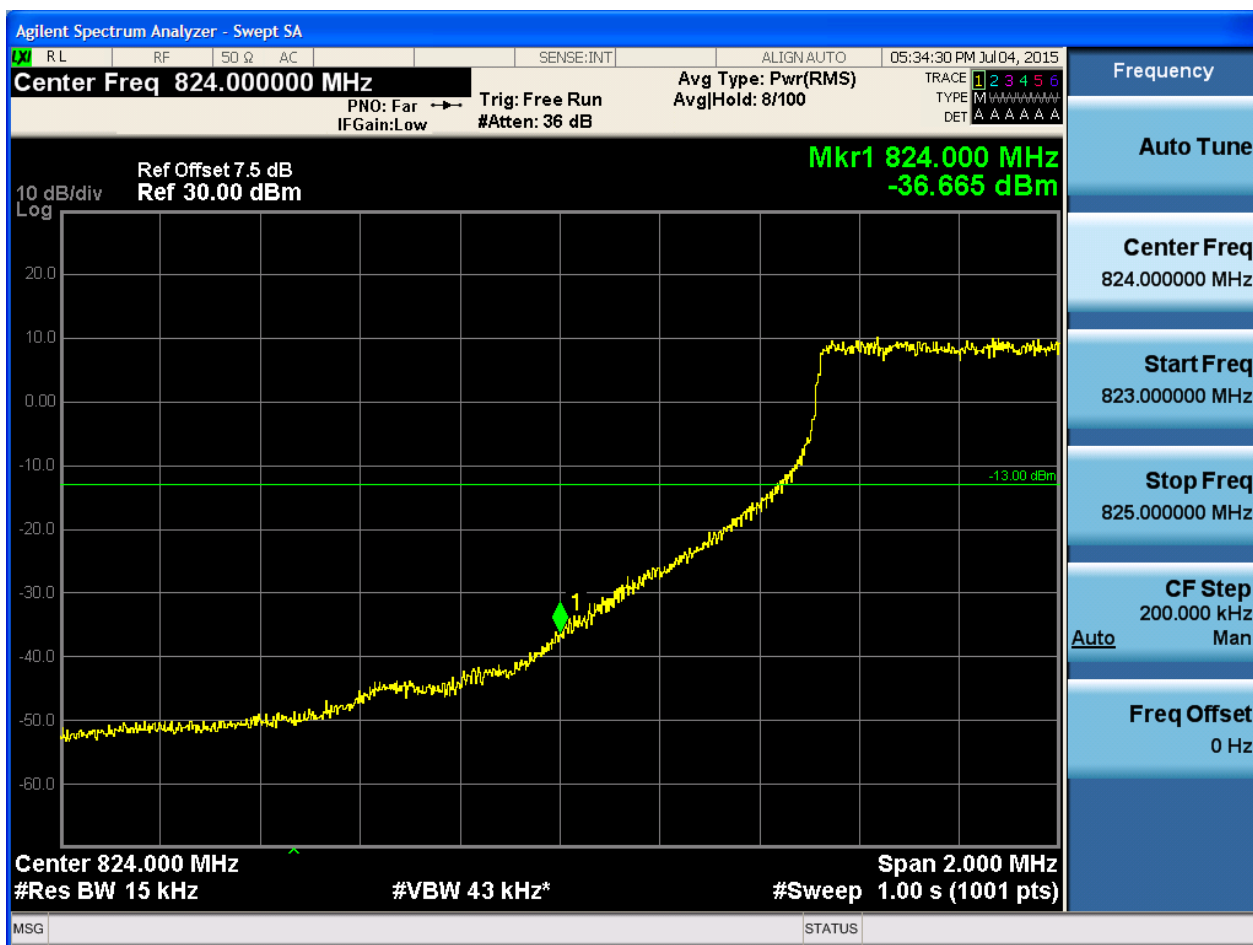


5.1.1.2.1.1.2 Test RB = RB1#5



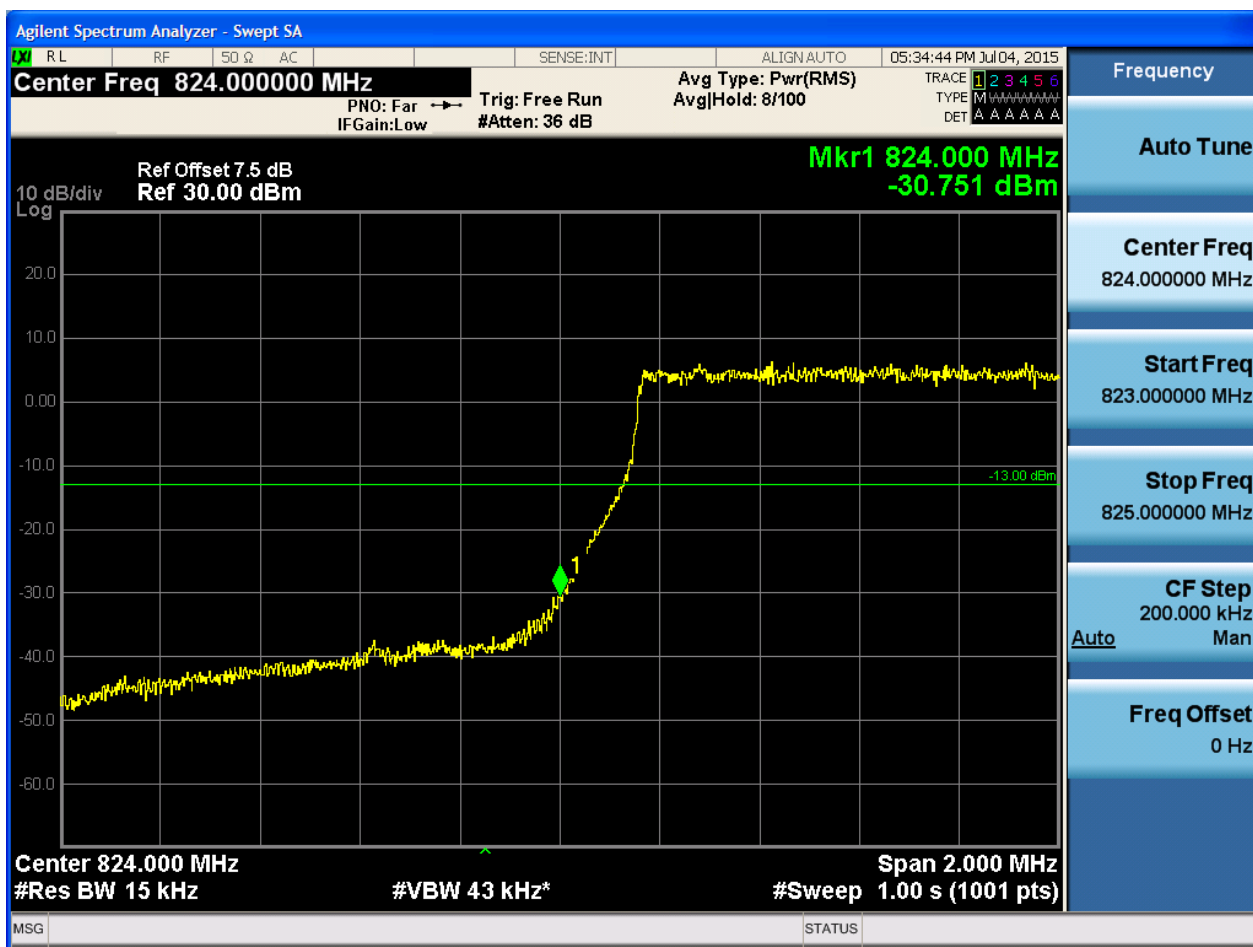


5.1.1.2.1.1.3 Test RB = RB3#2





5.1.1.2.1.1.4 Test RB = RB6#0





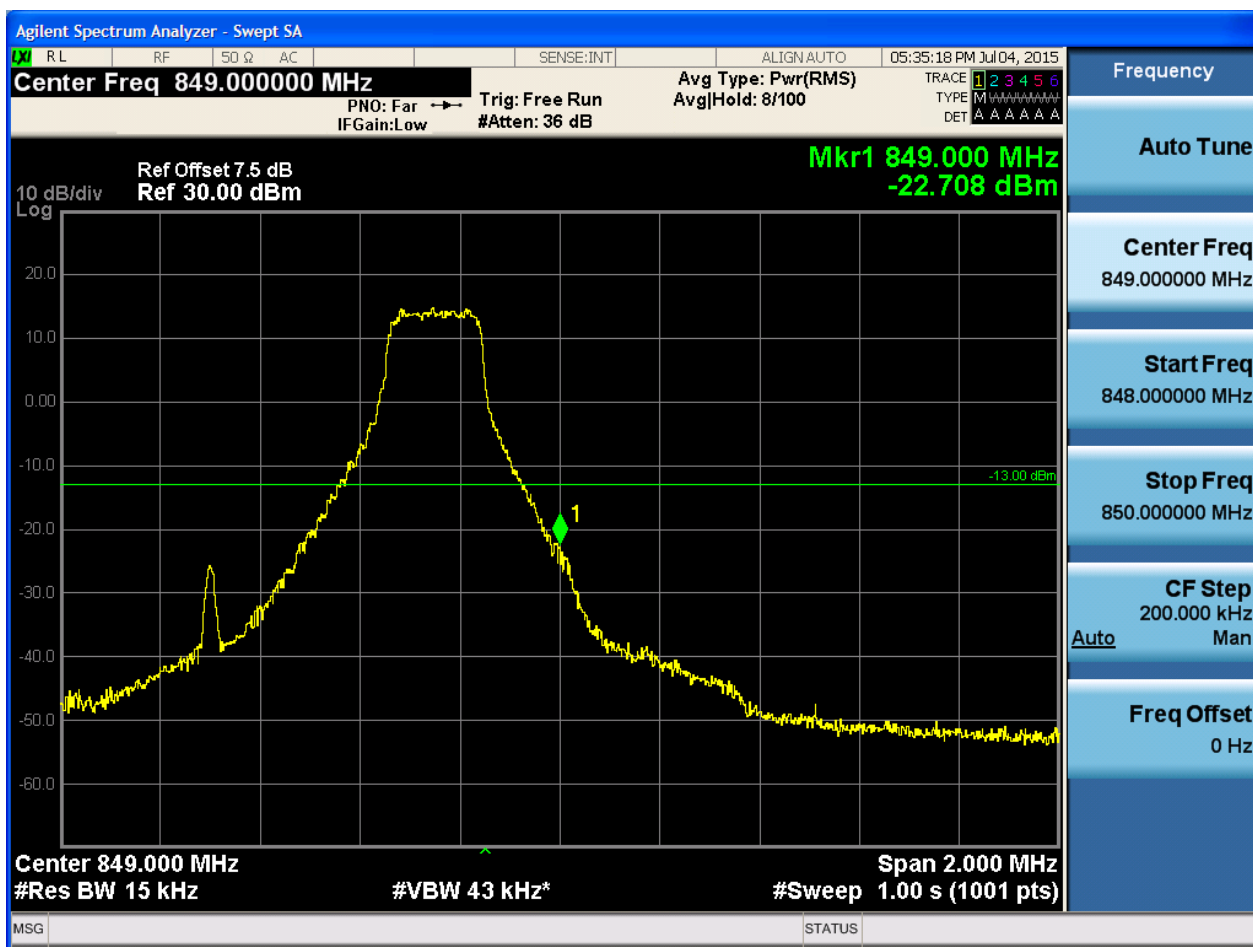
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0





5.1.1.2.1.2.2 Test RB = RB1#5





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 05:35:33 PM Jul 04, 2015

Center Freq 849.000000 MHz Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
PNO: Far Trig: Free Run Avg|Hold: 8/100 TYPE M *****
IFGain:Low #Atten: 36 dB DET A A A A A A

Ref Offset 7.5 dB Mkr1 849.010 MHz
Ref 30.00 dBm -28.491 dBm

10 dB/div Log

Center 849.000 MHz Span 2.000 MHz
#Res BW 15 kHz #VBW 43 kHz* #Sweep 1.00 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
Man

Auto

Freq Offset
0 Hz

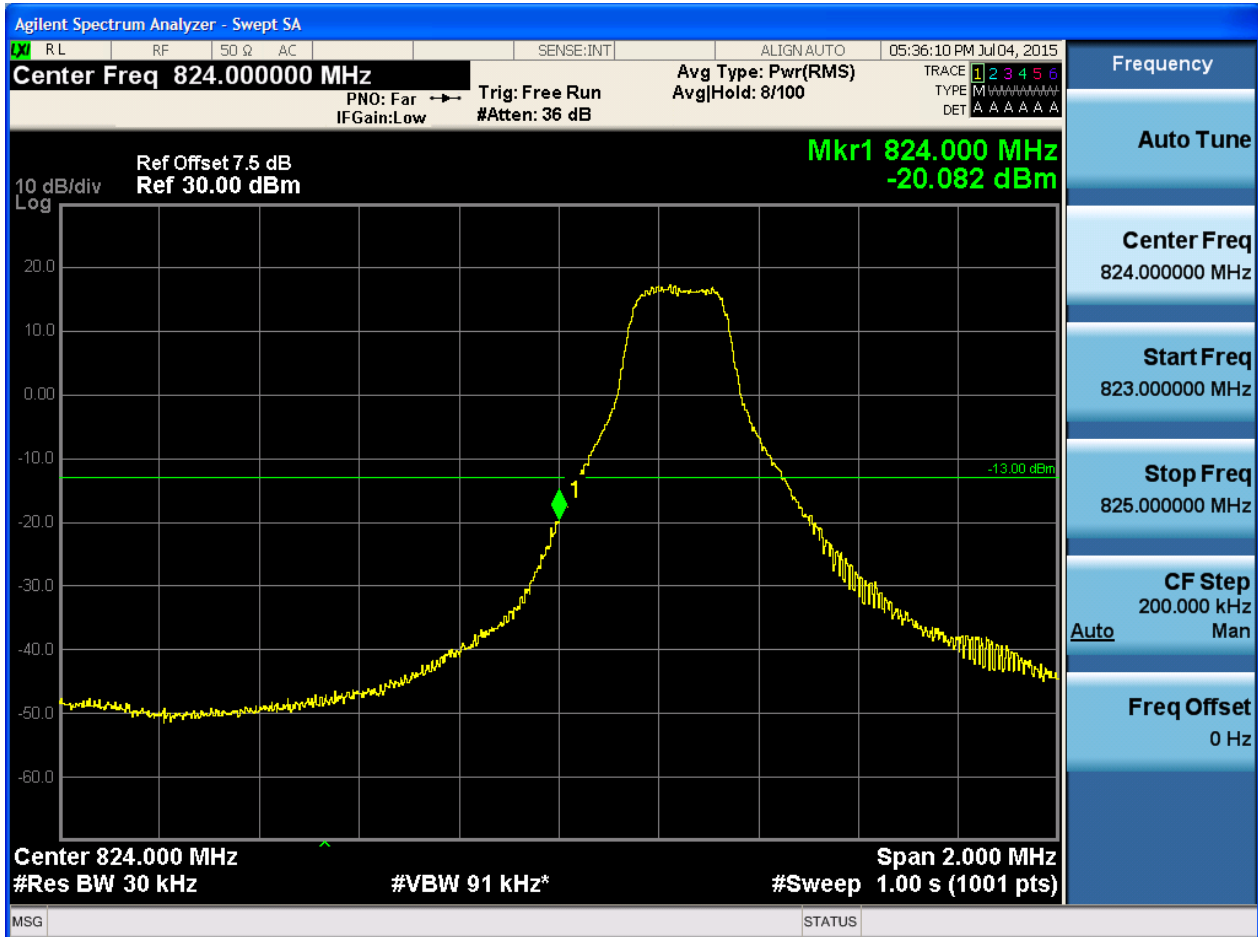


5.1.1.2.1.2.4 Test RB = RB6#0



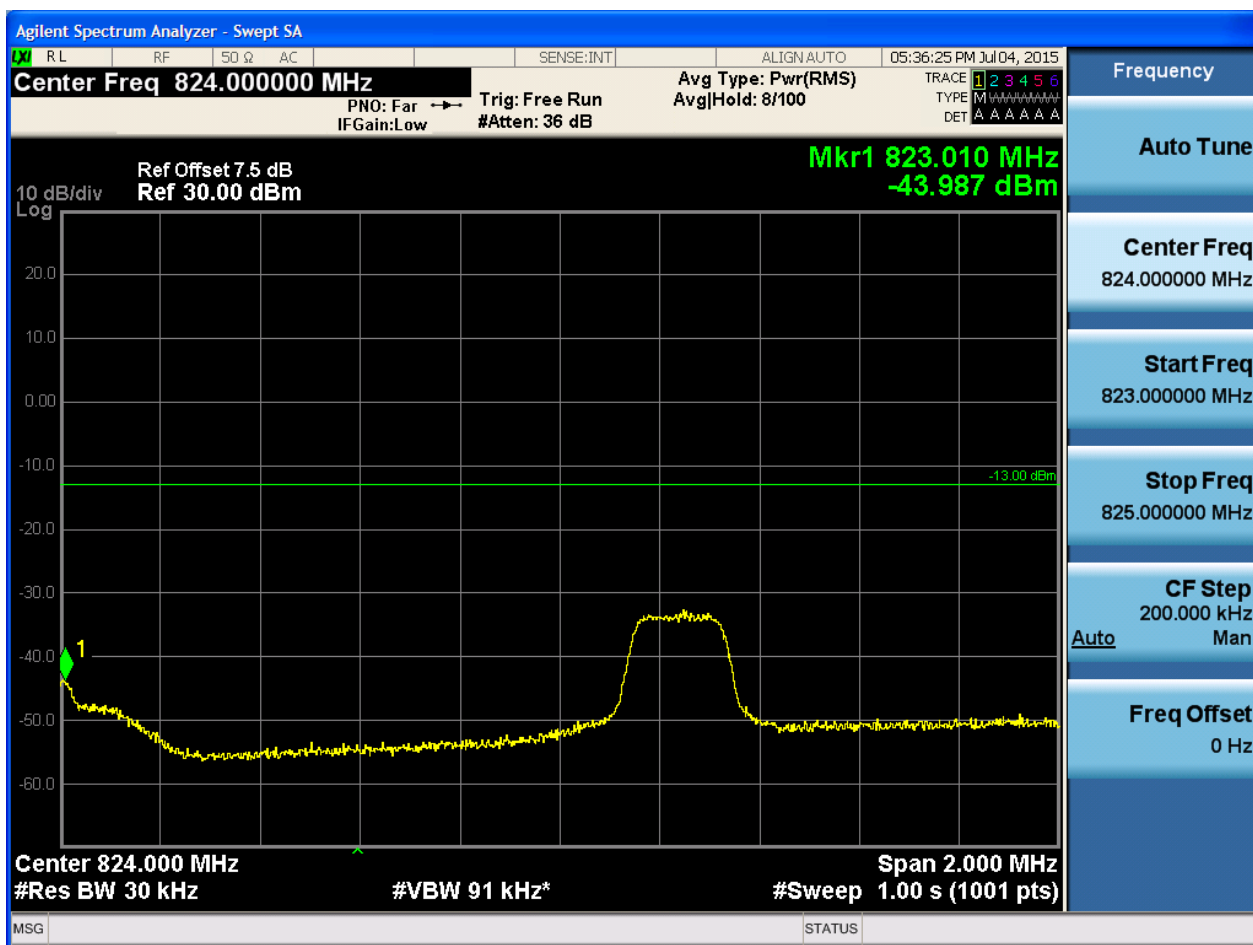


5.1.1.2.2.1.1 Test RB = RB1#0



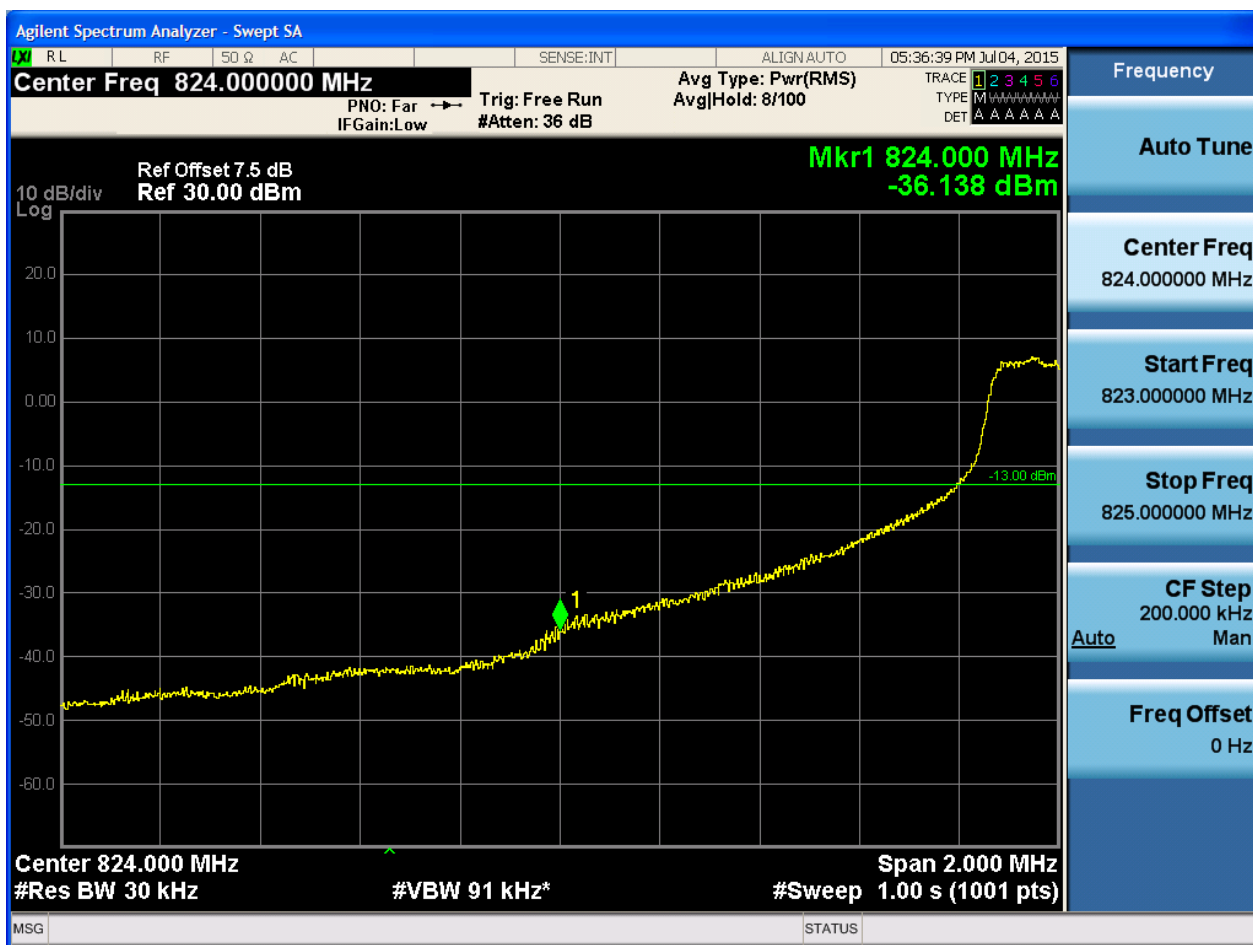


5.1.1.2.2.1.2 Test RB = RB1#14



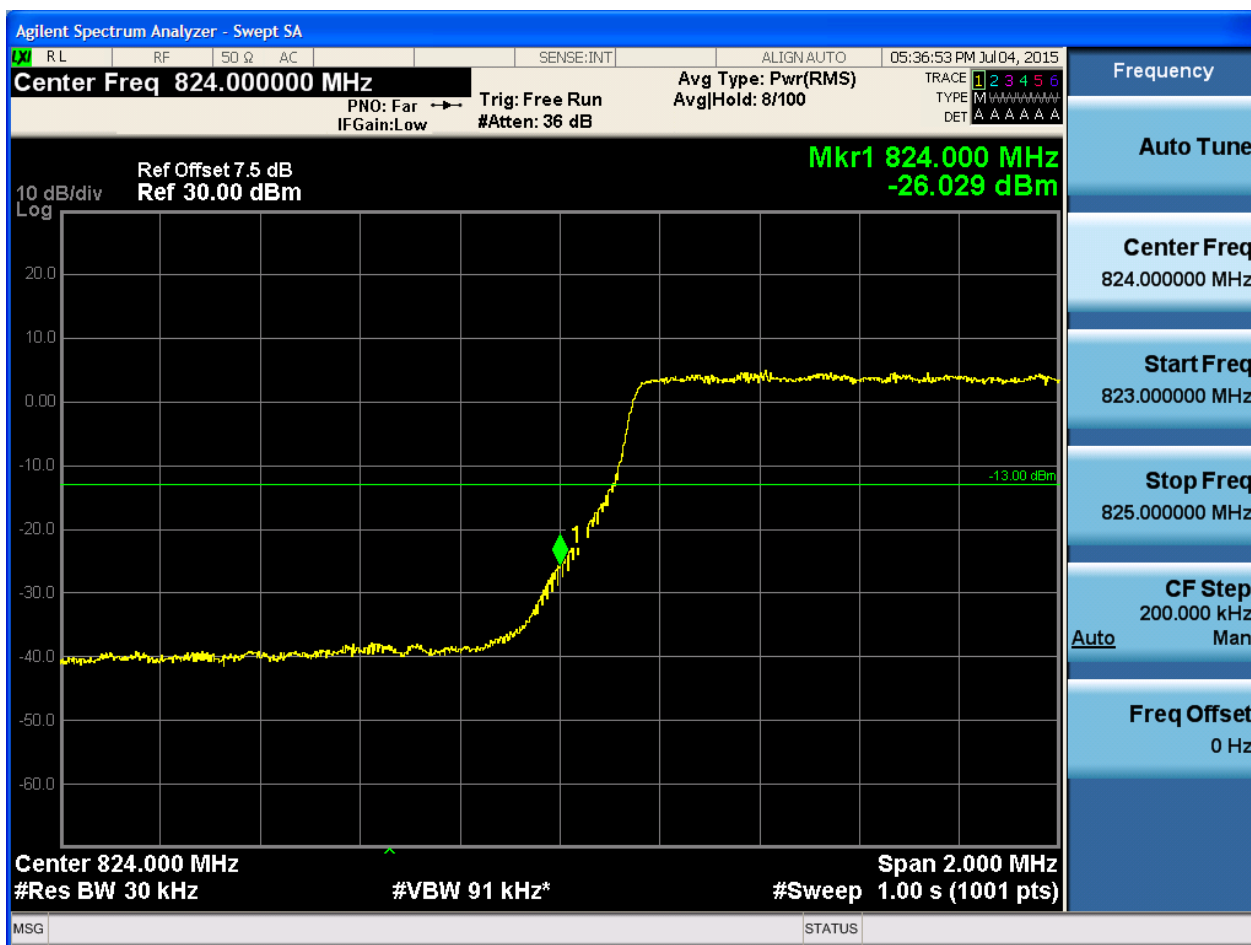


5.1.1.2.2.1.3 Test RB = RB8#4



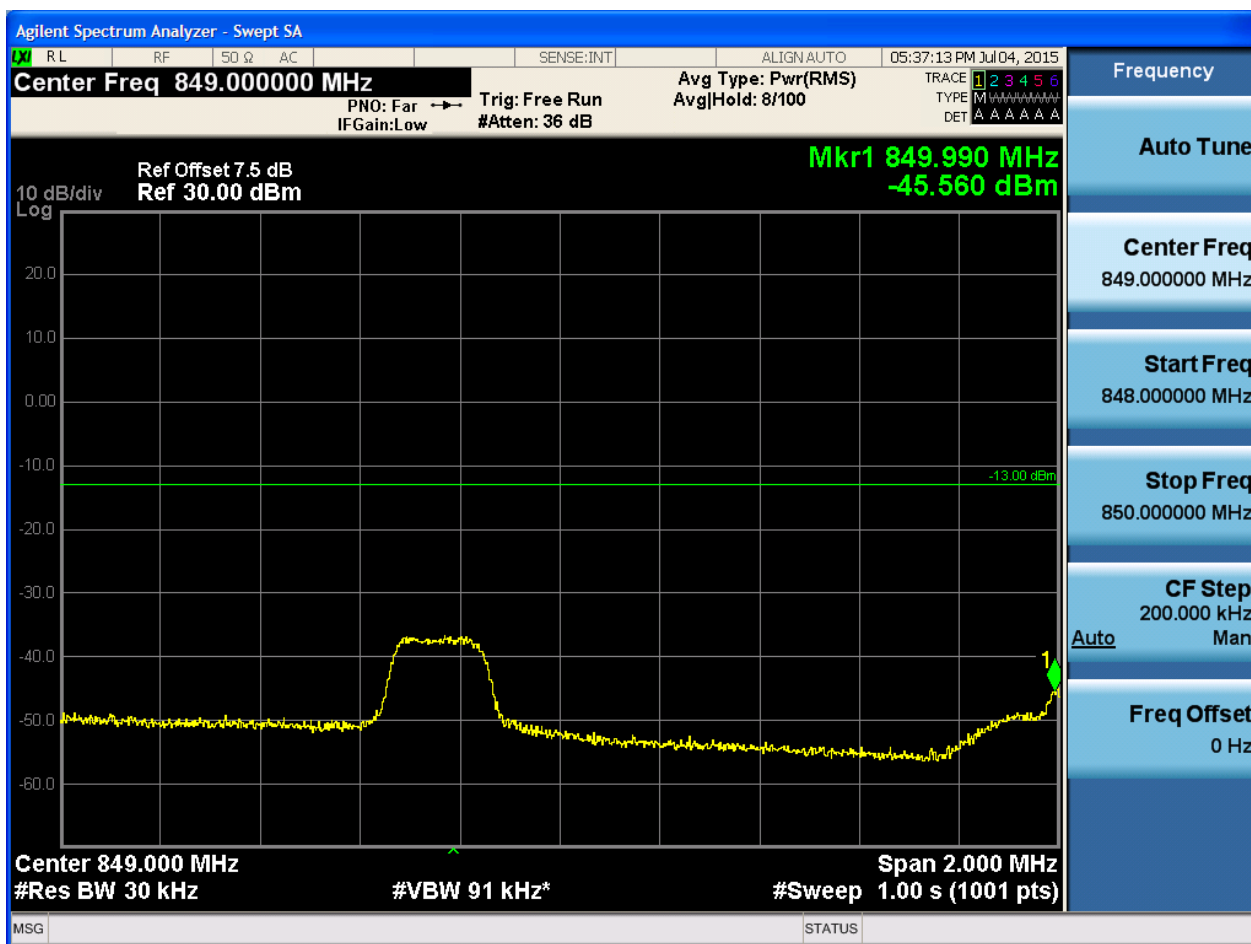


5.1.1.2.2.1.4 Test RB = RB15#0



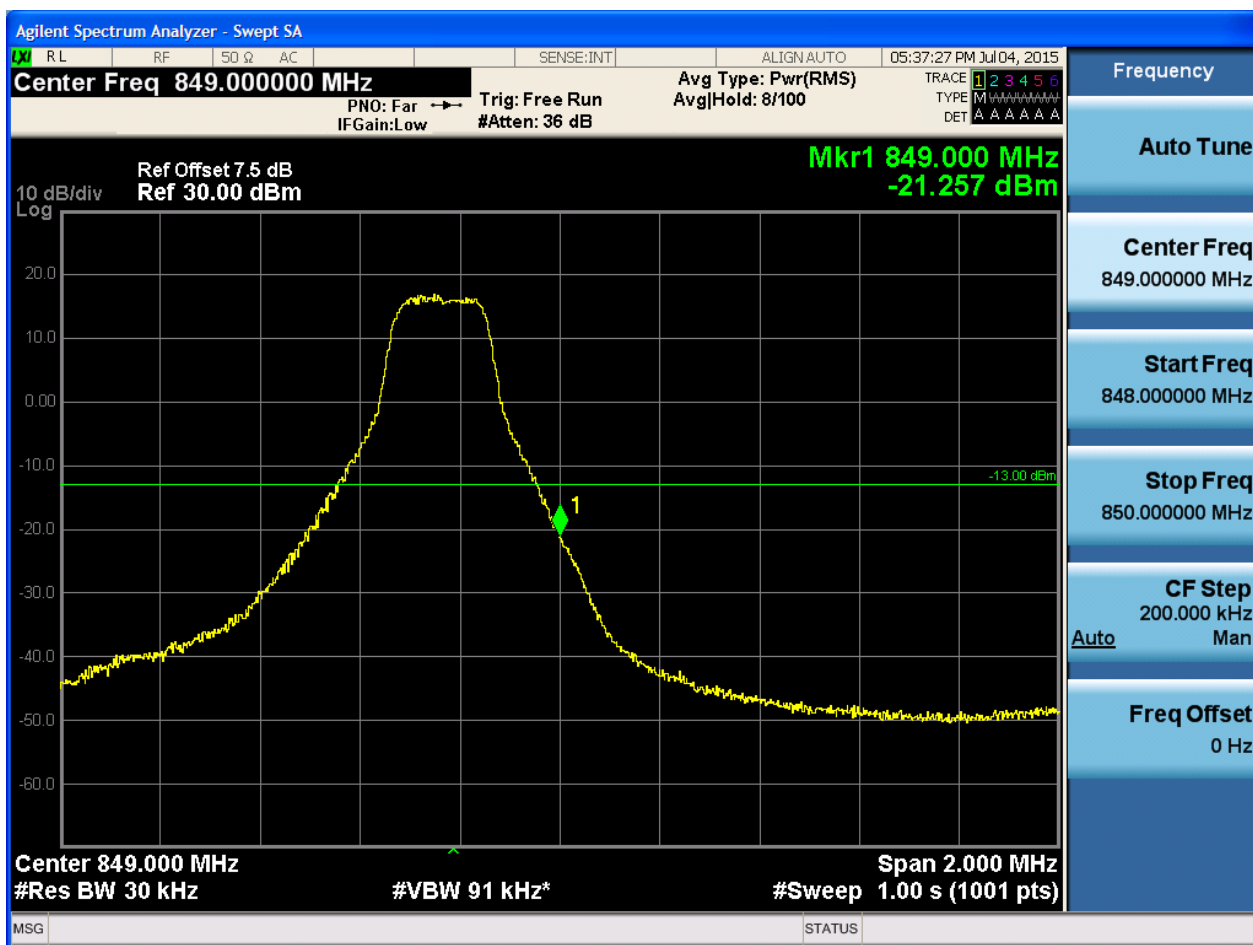
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





5.1.1.2.2.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 05:37:41 PM Jul 04, 2015

Center Freq 849.000000 MHz Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
PNO: Far Trig: Free Run Avg|Hold: 8/100 TYPE [M] [] [] [] [] []
IFGain:Low #Atten: 36 dB DET A A A A A A

10 dB/div Ref Offset 7.5 dB Mkr1 849.000 MHz
Log Ref 30.00 dBm -33.652 dBm

Center 849.000 MHz Span 2.000 MHz
#Res BW 30 kHz #VBW 91 kHz* #Sweep 1.00 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



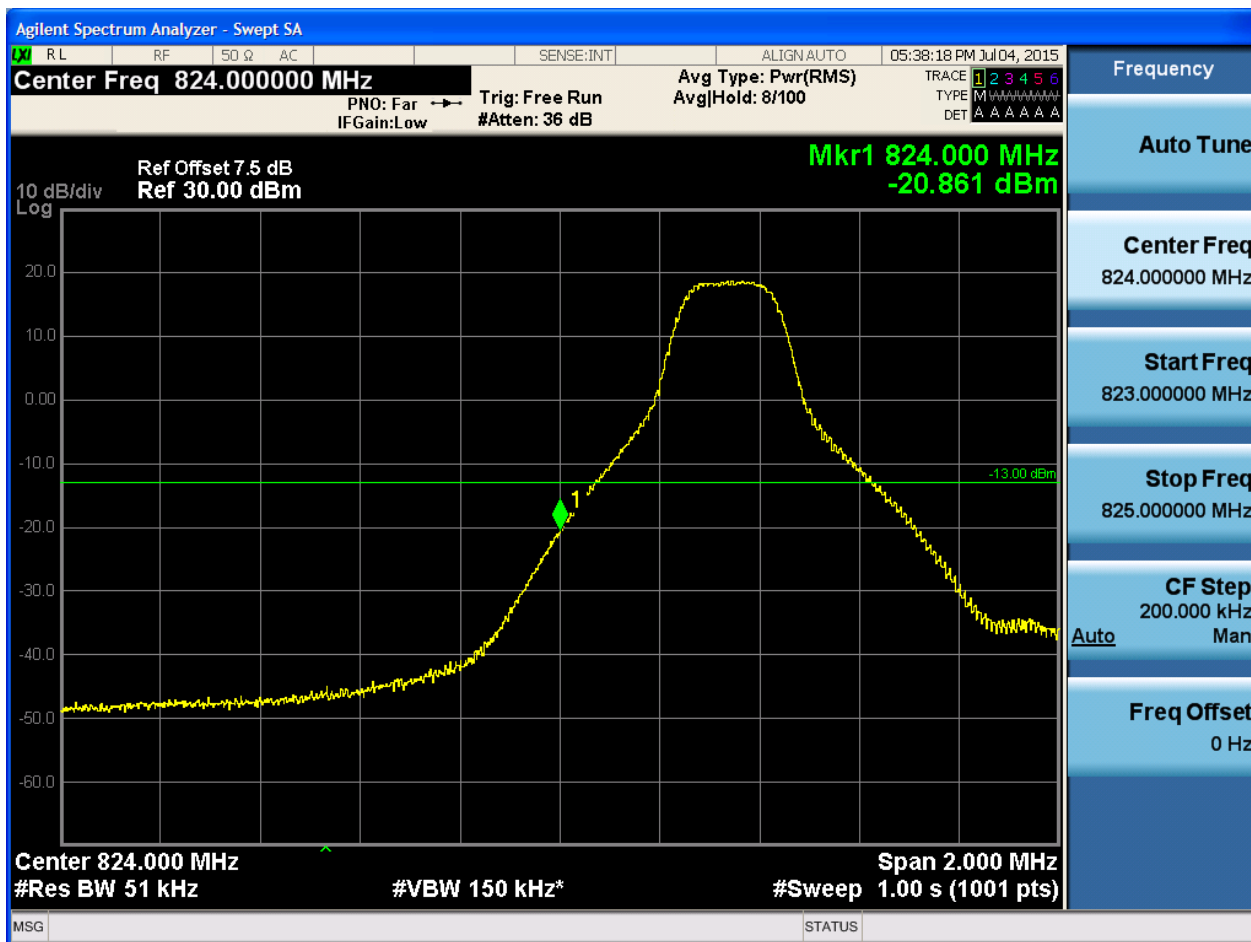
5.1.1.2.2.4 Test RB = RB15#0



5.1.1.2.3 Test Bandwidth = 5

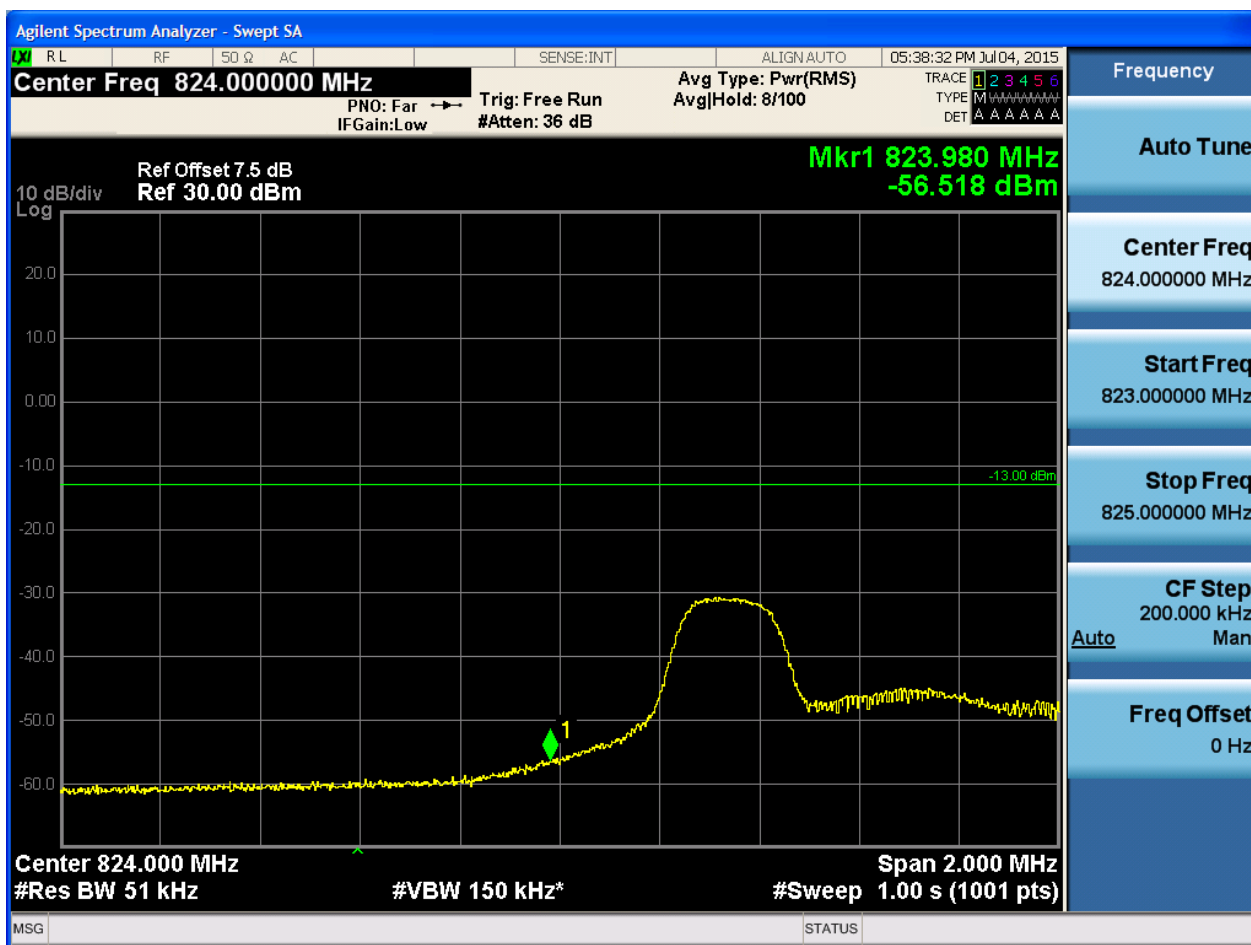
5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0





5.1.1.2.3.1.2 Test RB = RB1#24



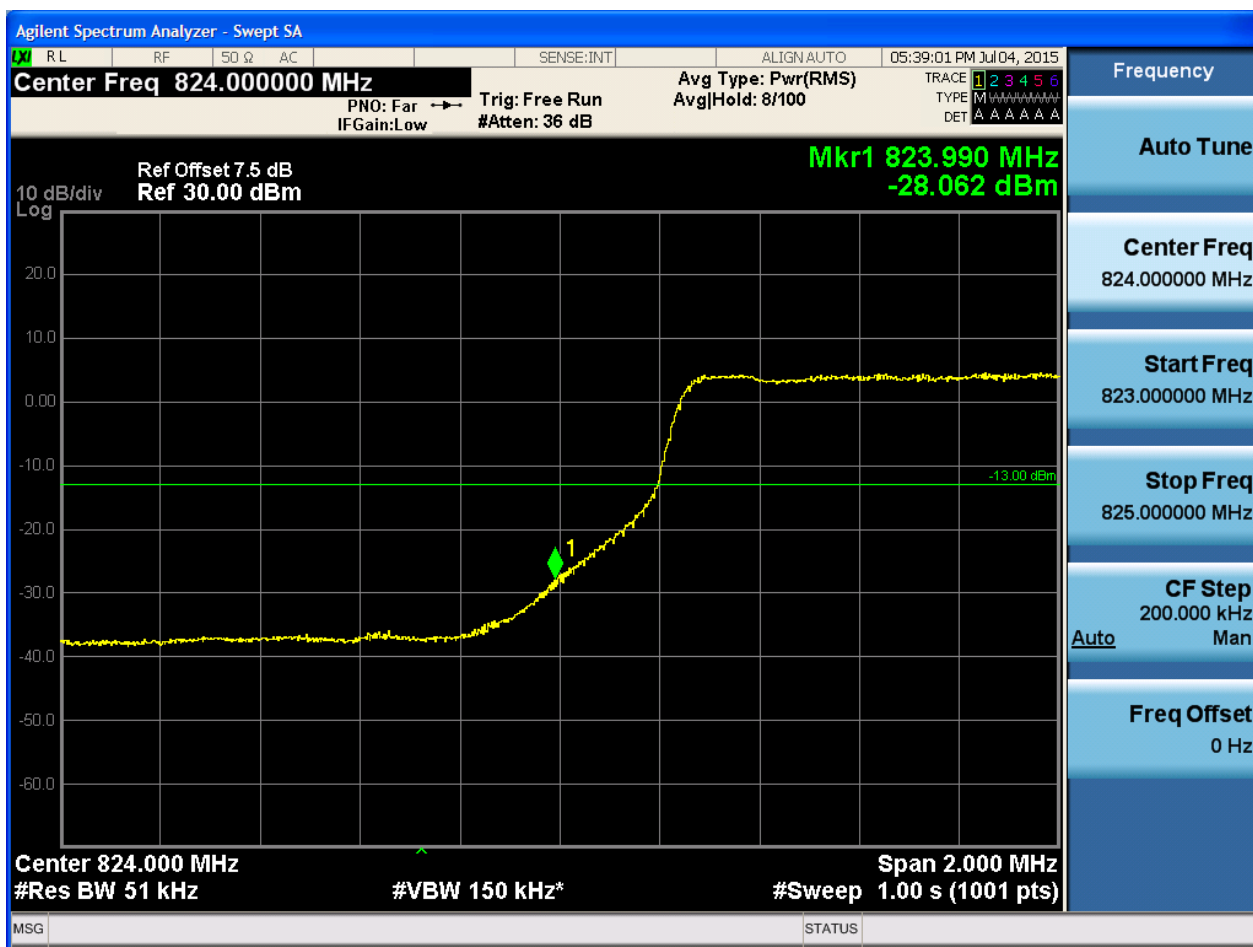


5.1.1.2.3.1.3 Test RB = RB12#6



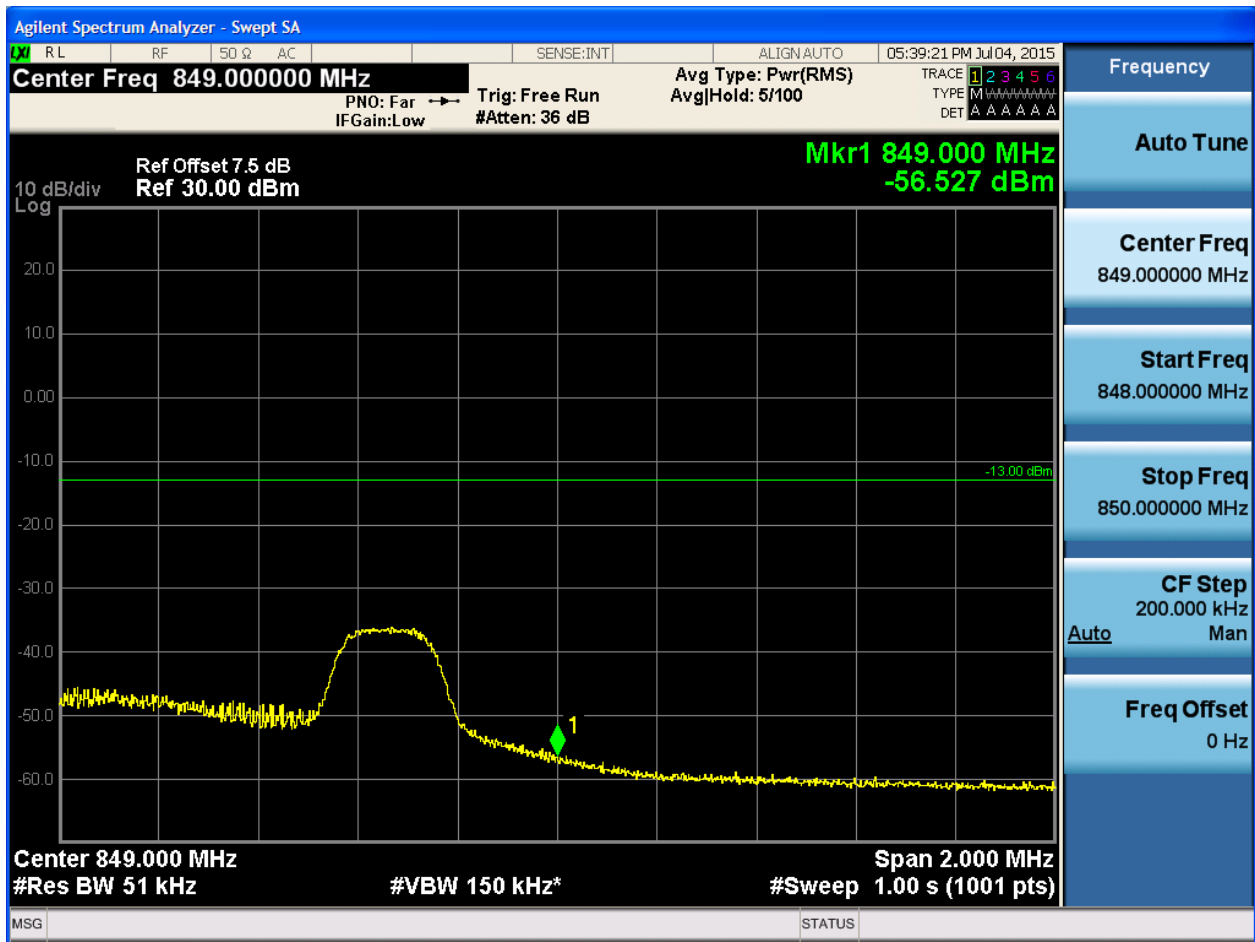


5.1.1.2.3.1.4 Test RB = RB25#0



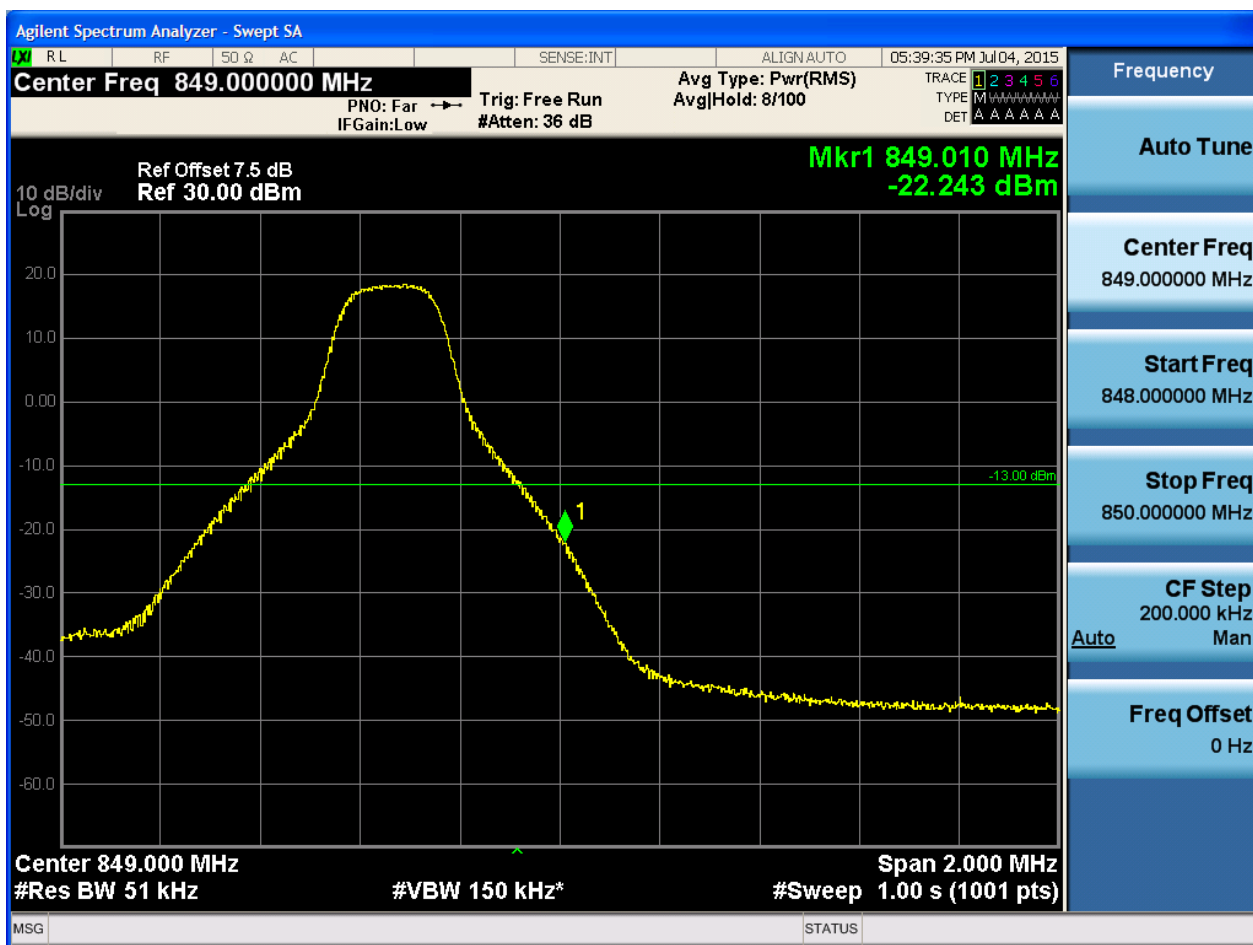


5.1.1.2.3.2.1 Test RB = RB1#0





5.1.1.2.3.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 51 kHz

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Trig: Free Run
#Atten: 36 dB

Mkr1 849.010 MHz
-38.523 dBm

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Auto

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Trig: Free Run
#Atten: 36 dB

Avg Type: Pwr(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 849.010 MHz
-29.370 dBm

-13.00 dBm

1

Center 849.000 MHz
#Res BW 51 kHz

#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Man

Auto

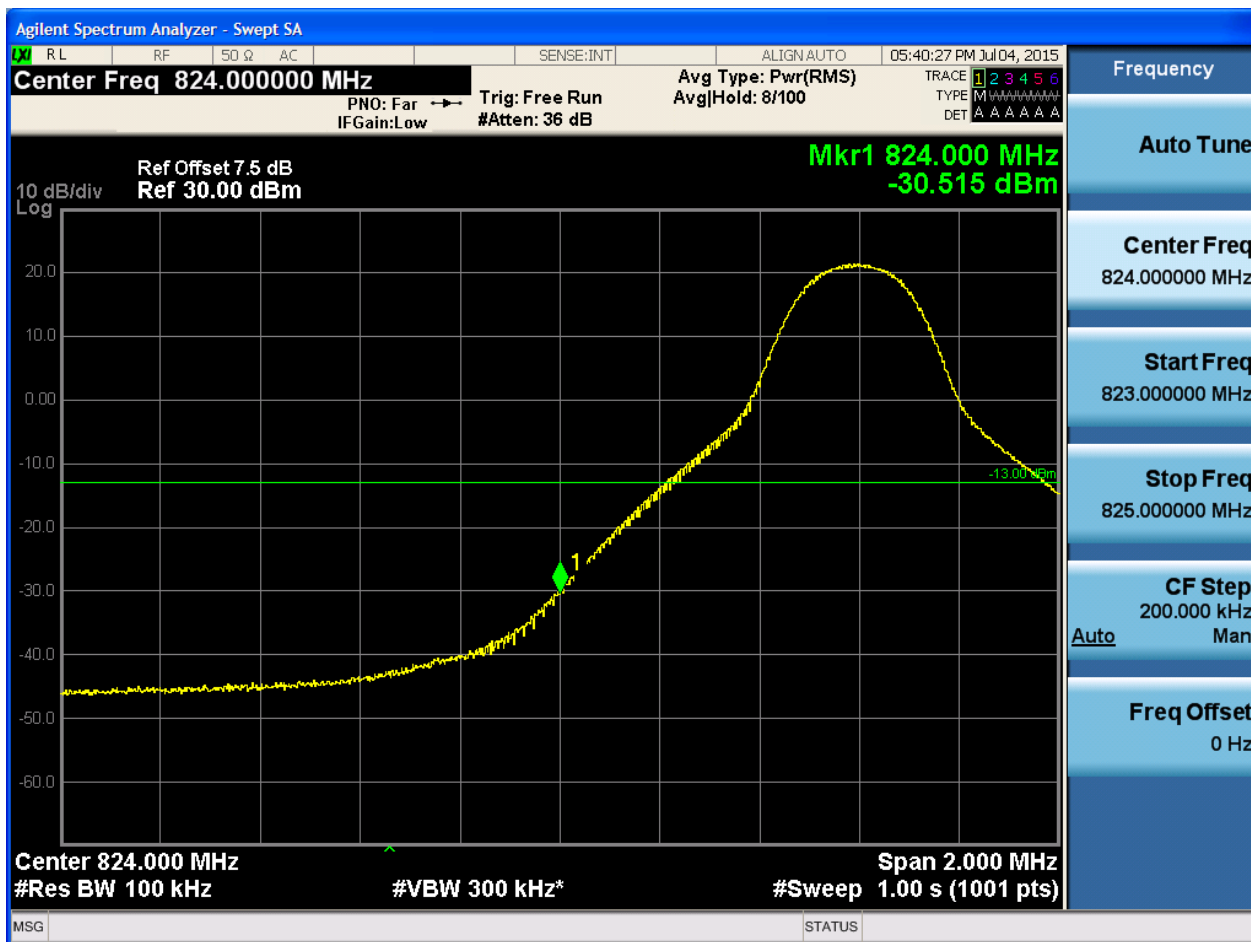
Freq Offset
0 Hz

MSG STATUS

5.1.1.2.4 Test Bandwidth = 10

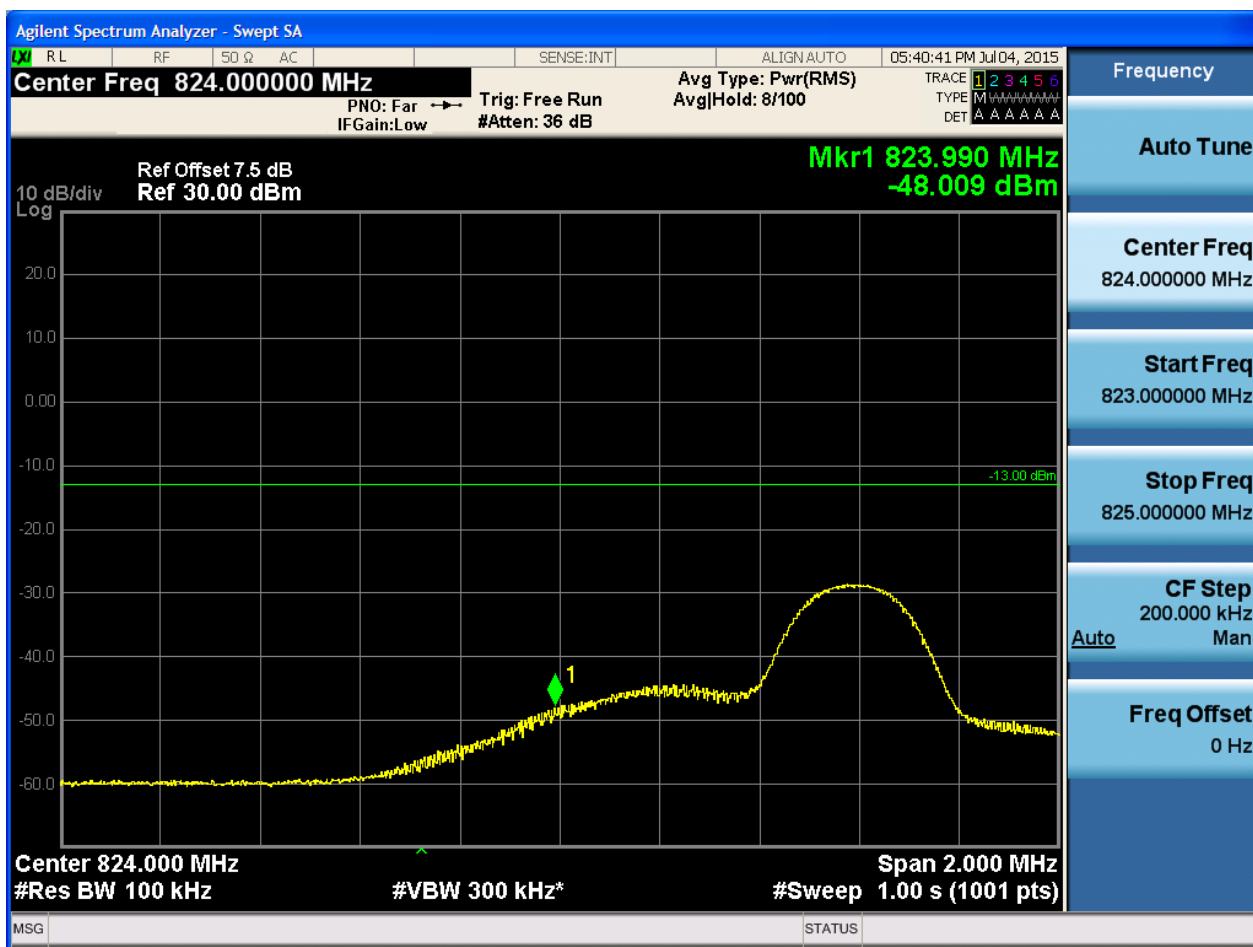
5.1.1.2.4.1 Test Channel = LCH

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





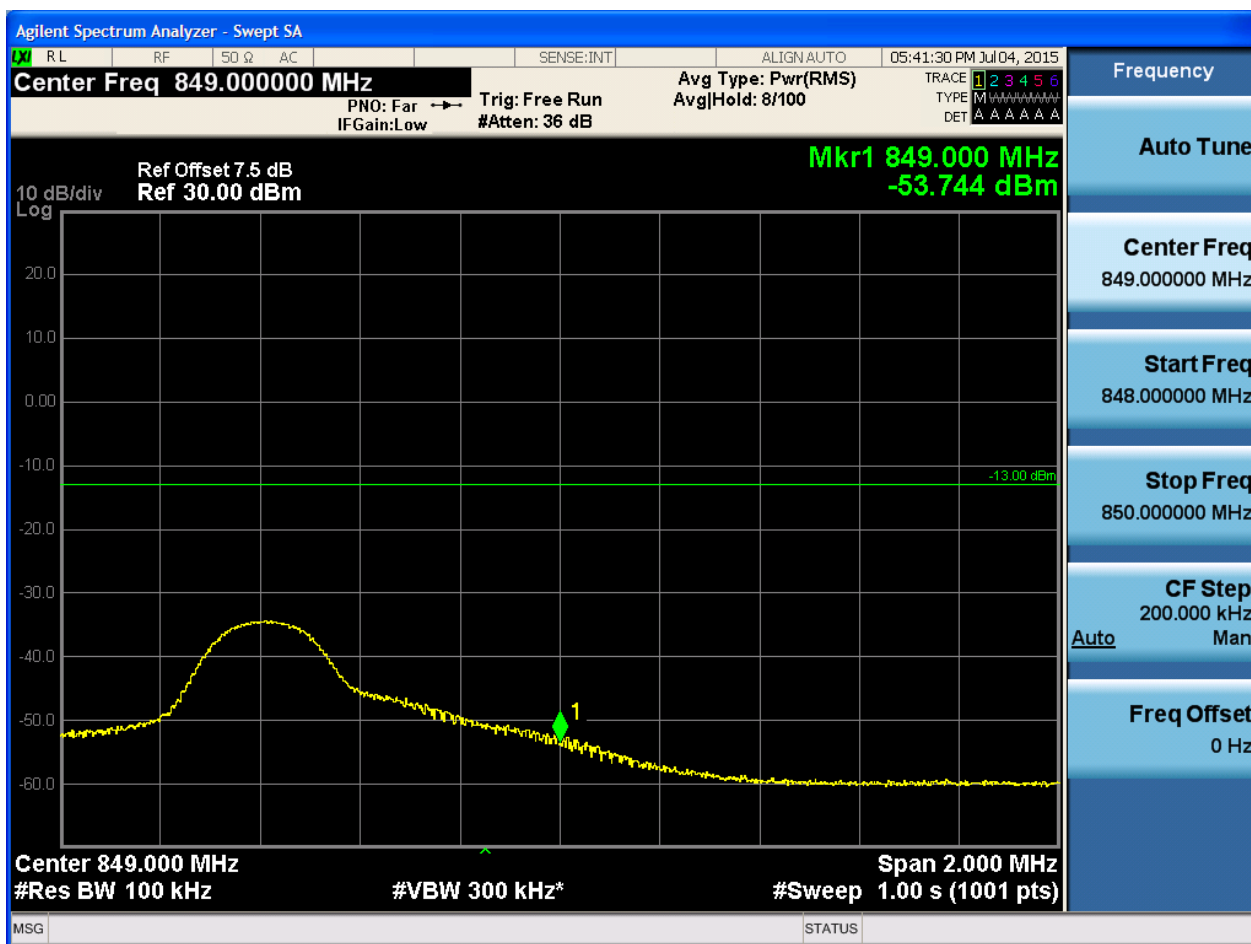
5.1.1.2.4.1.4 Test RB = RB50#0





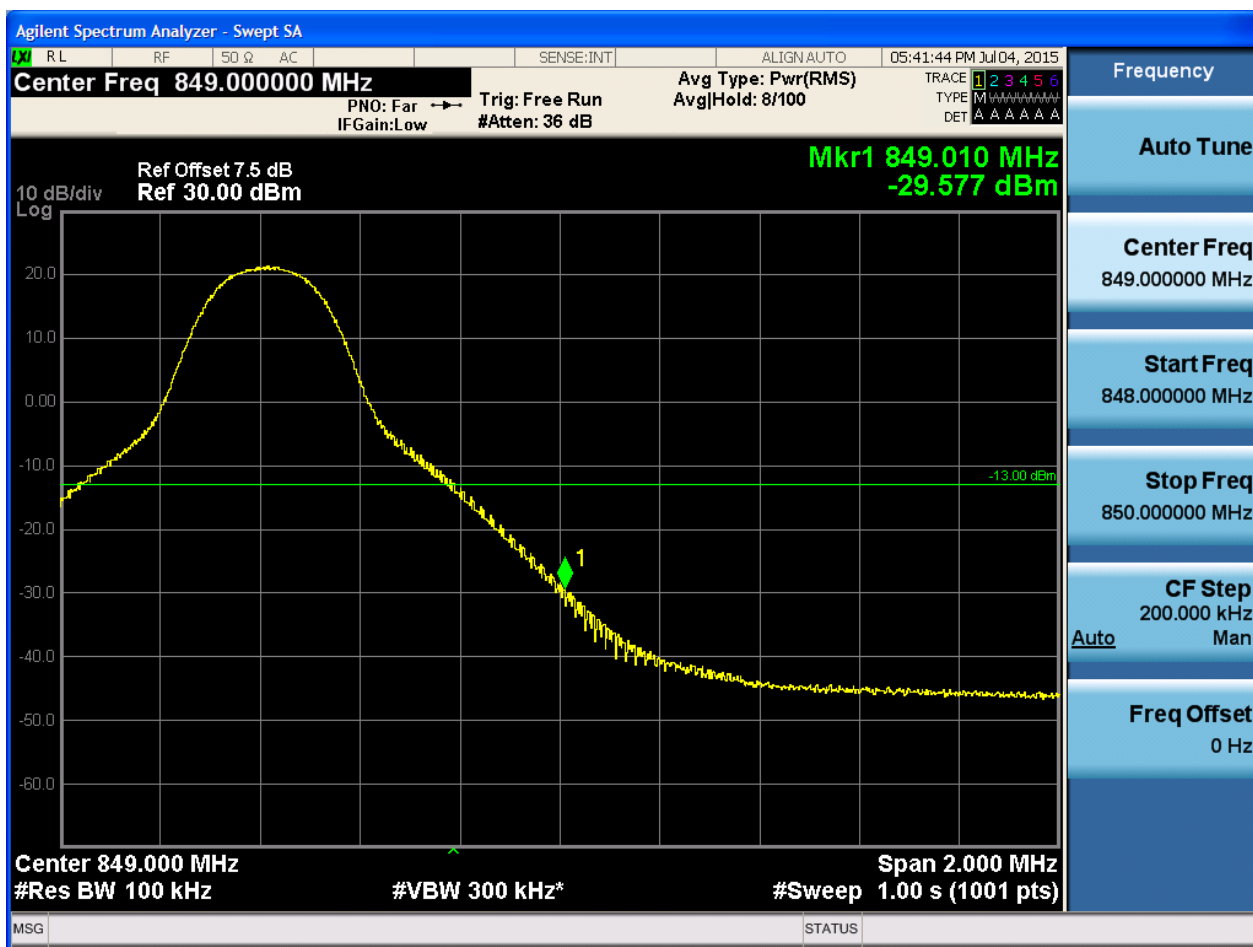
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0





5.1.1.2.4.2.2 Test RB = RB1#49





5.1.1.2.4.2.3 Test RB = RB25#13





5.1.1.2.4.2.4 Test RB = RB50#0



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

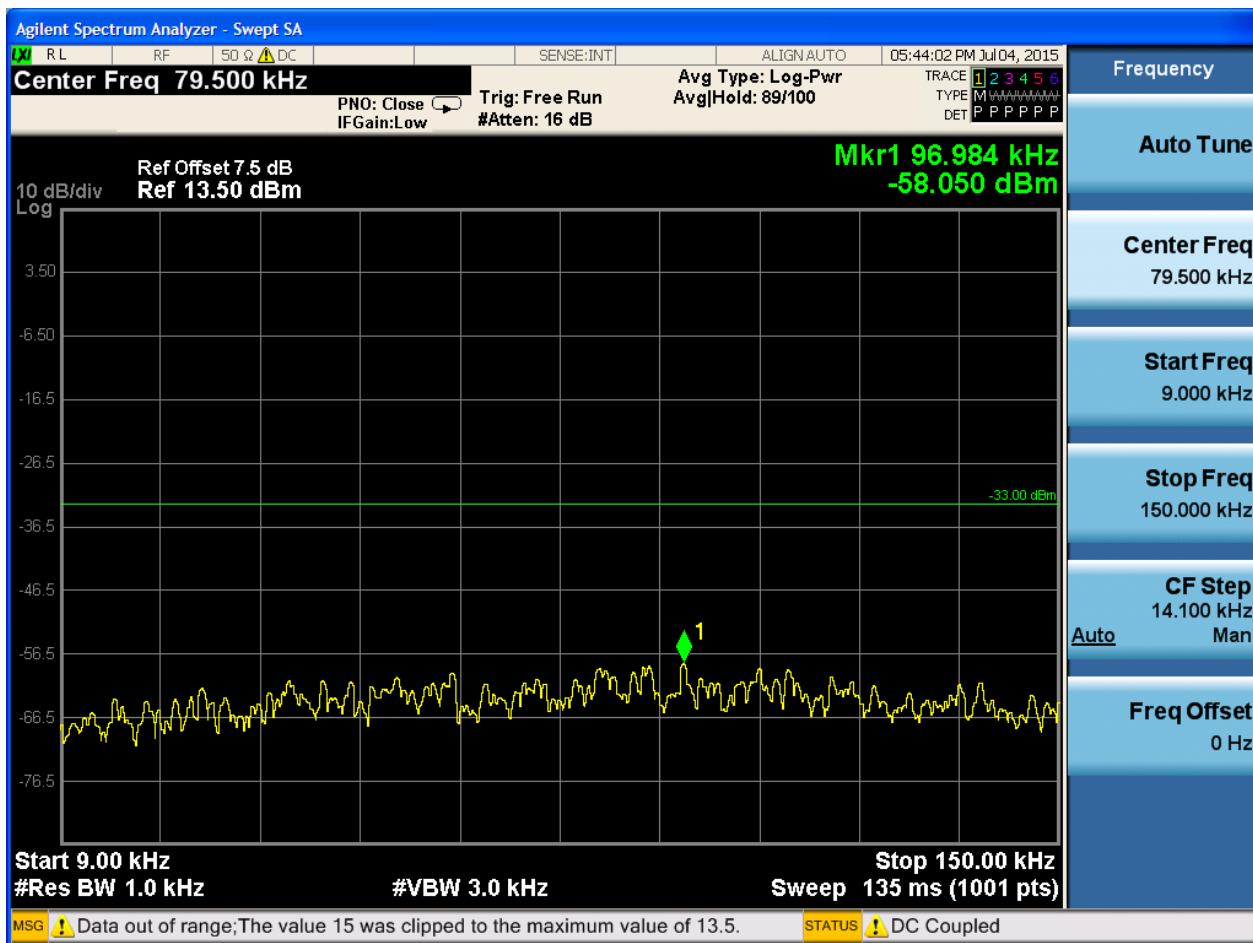
6.1.1 Test Band = BAND5

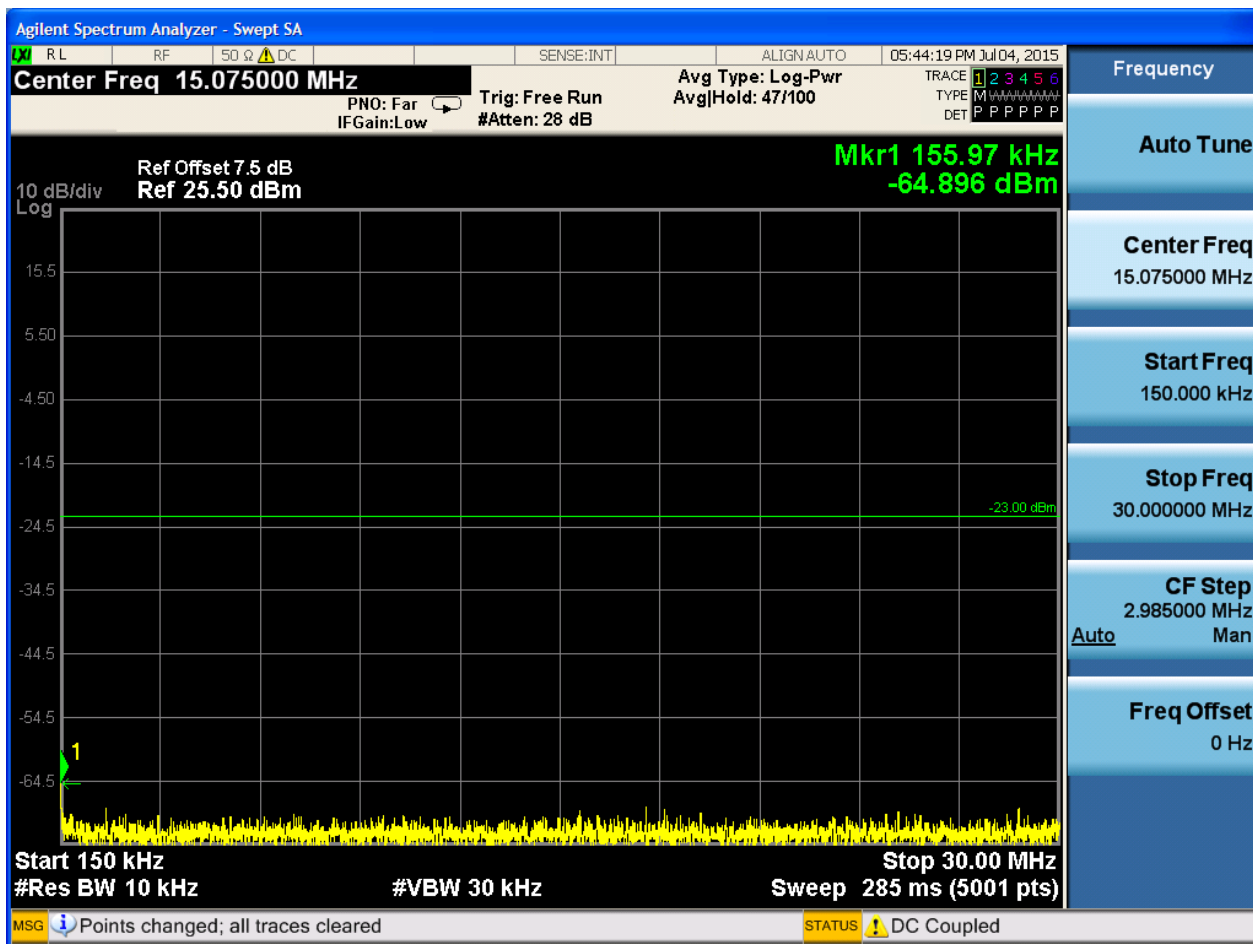
6.1.1.1 Test Mode = LTE/TM1

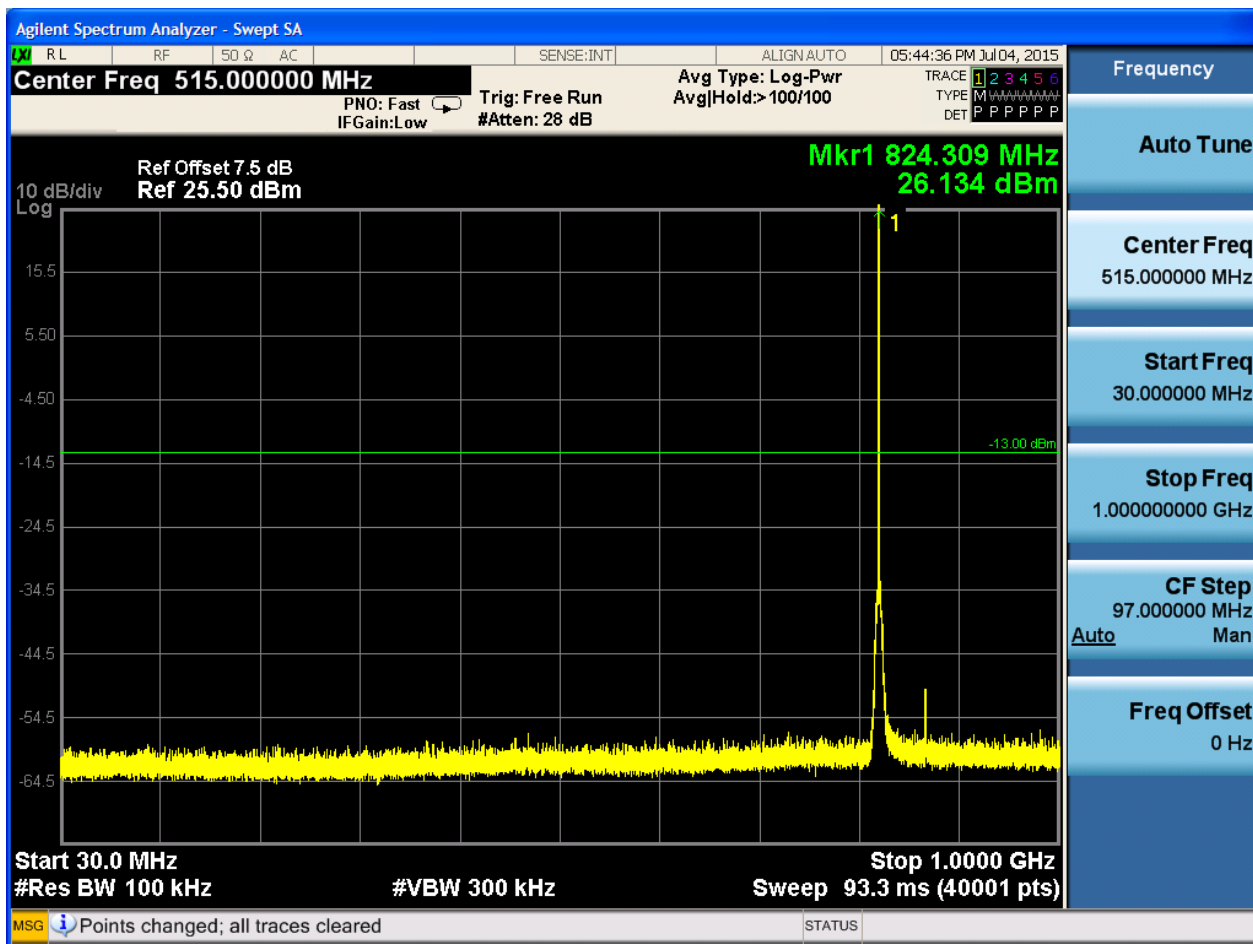
6.1.1.1.1 Test Bandwidth = 1.4

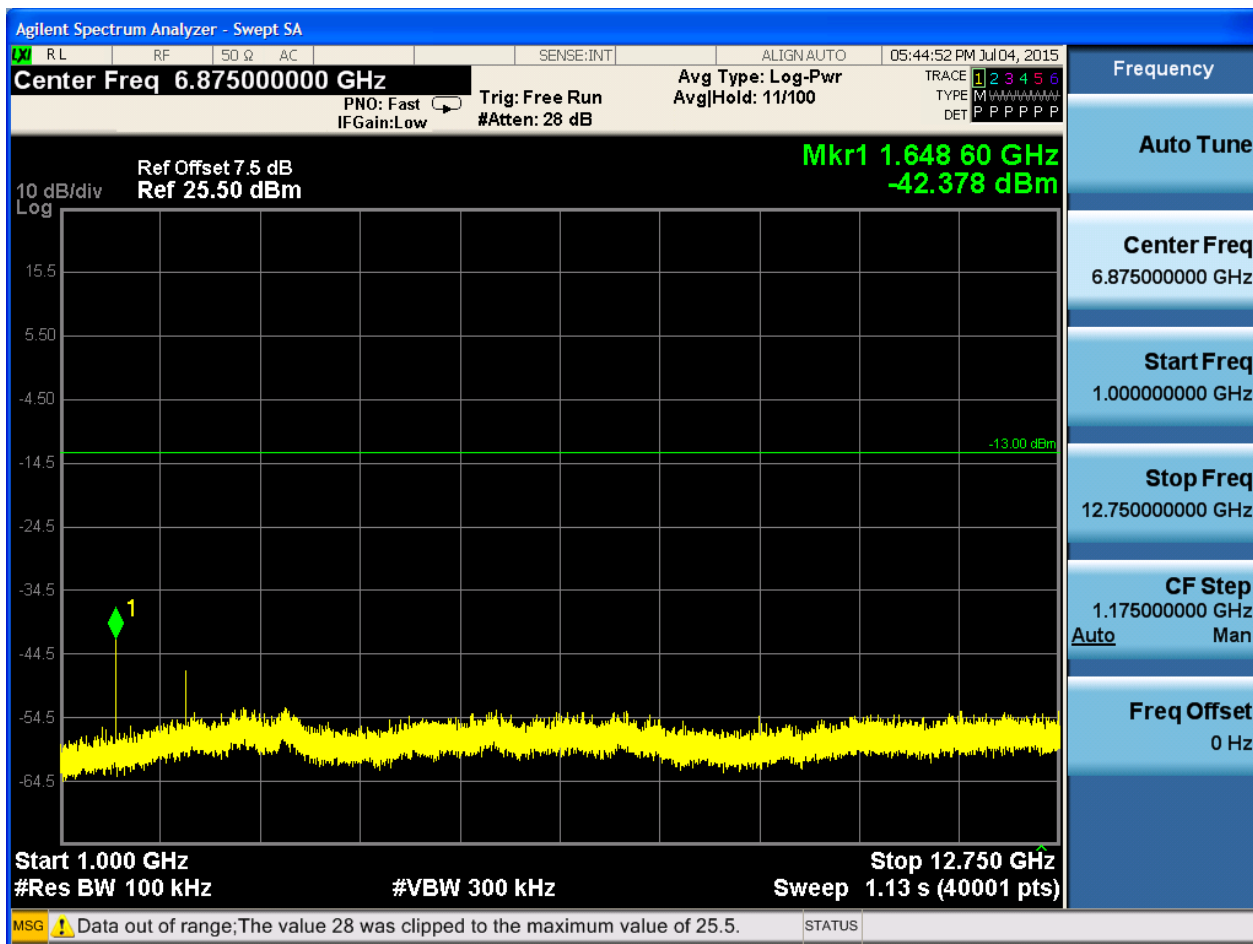
6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0





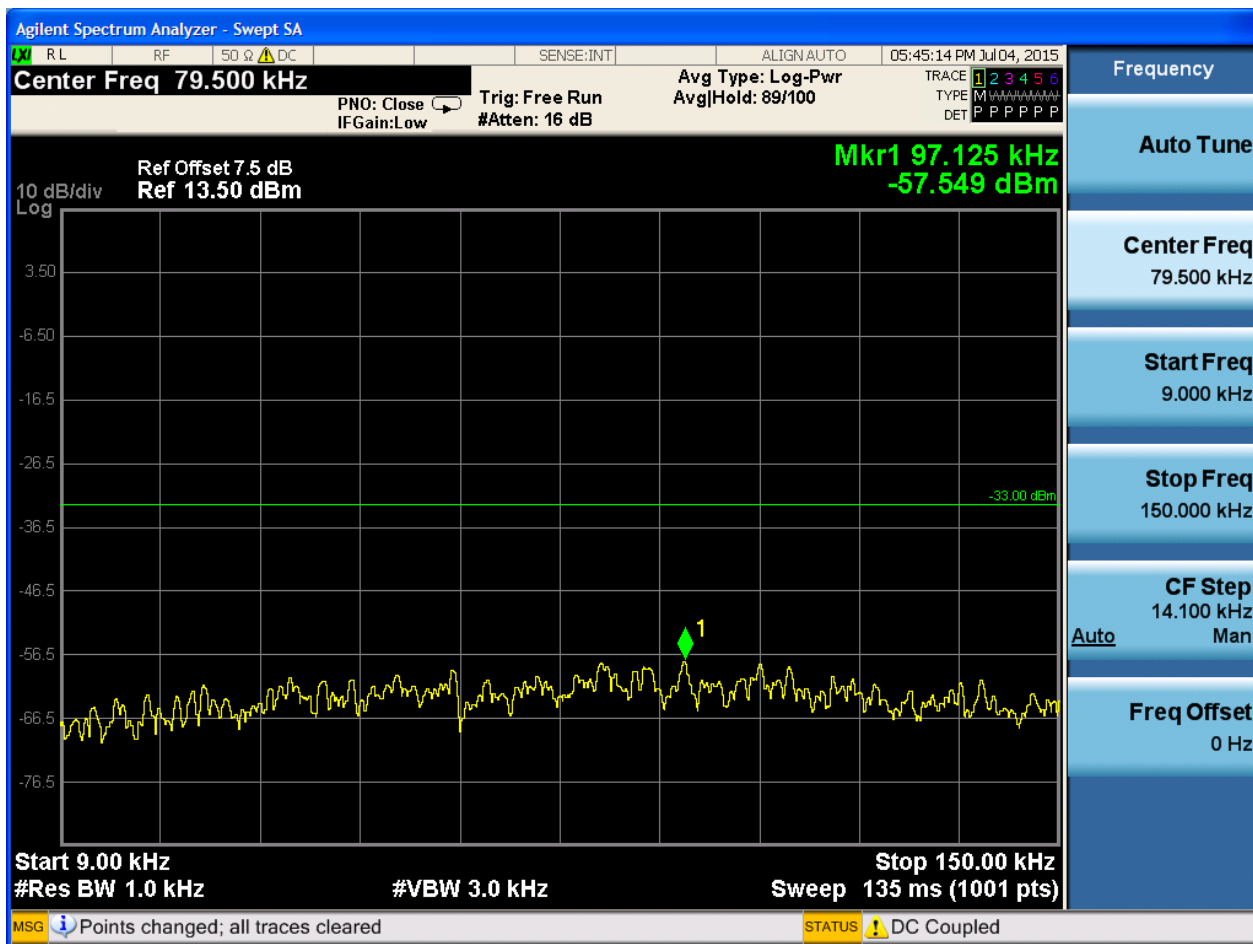


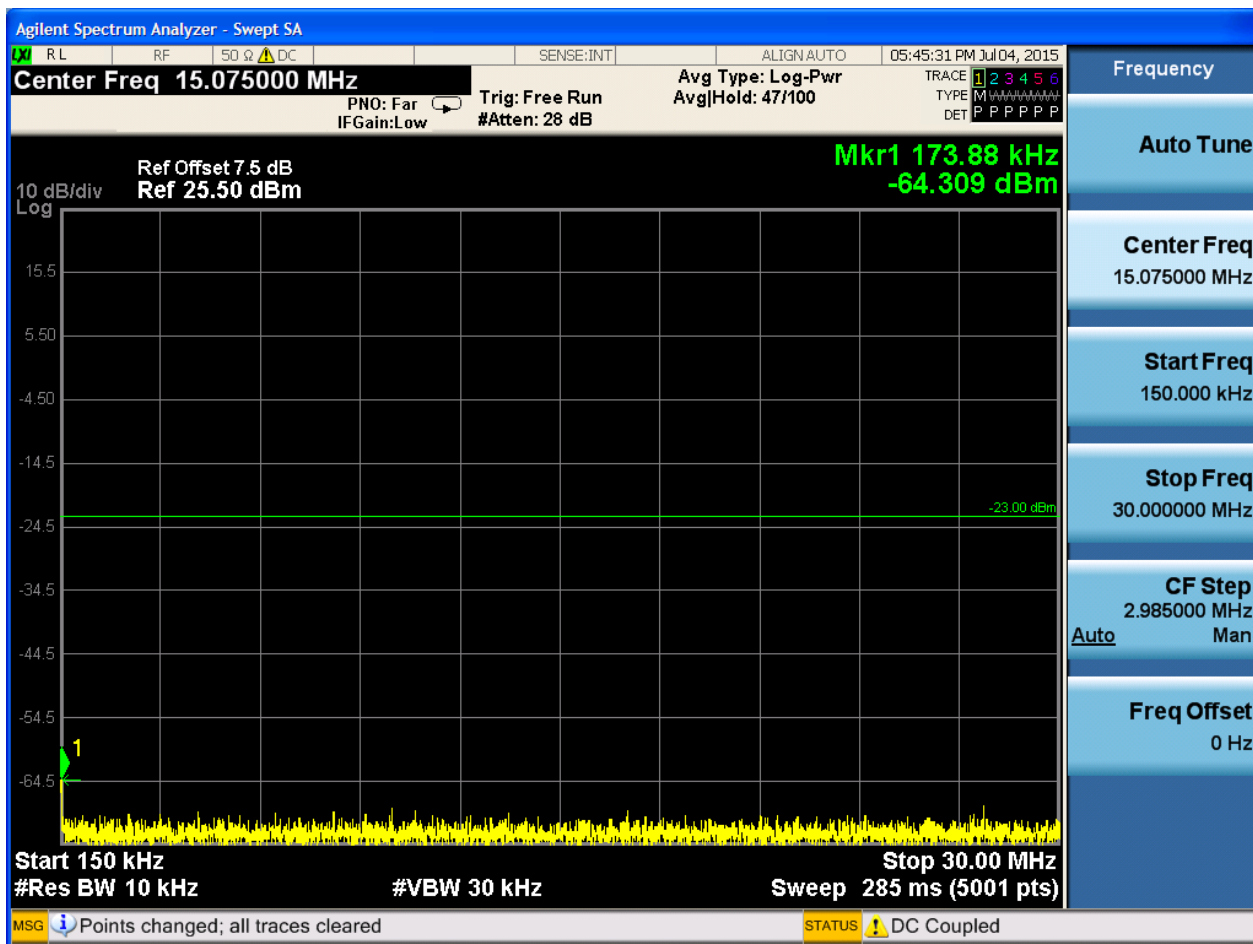


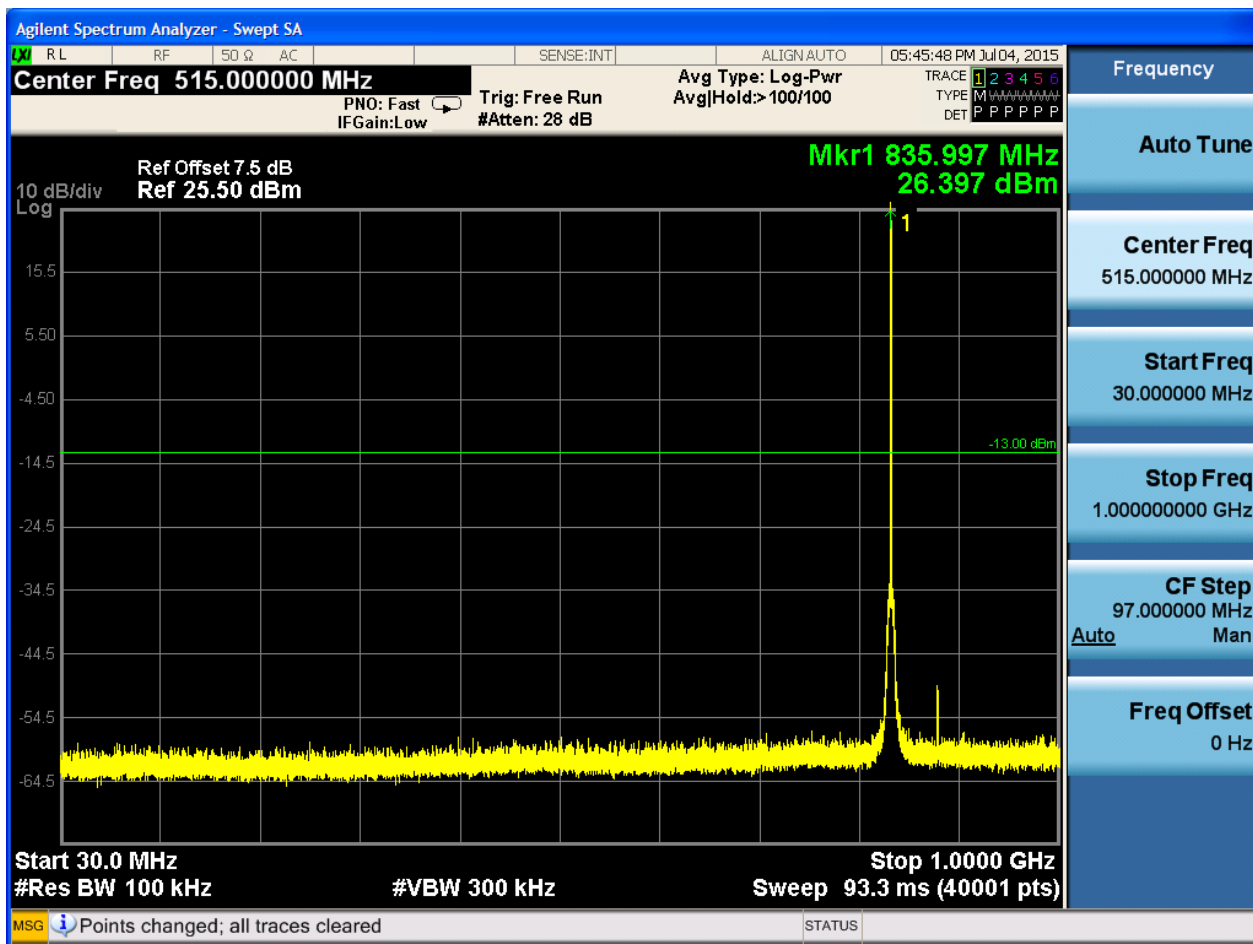


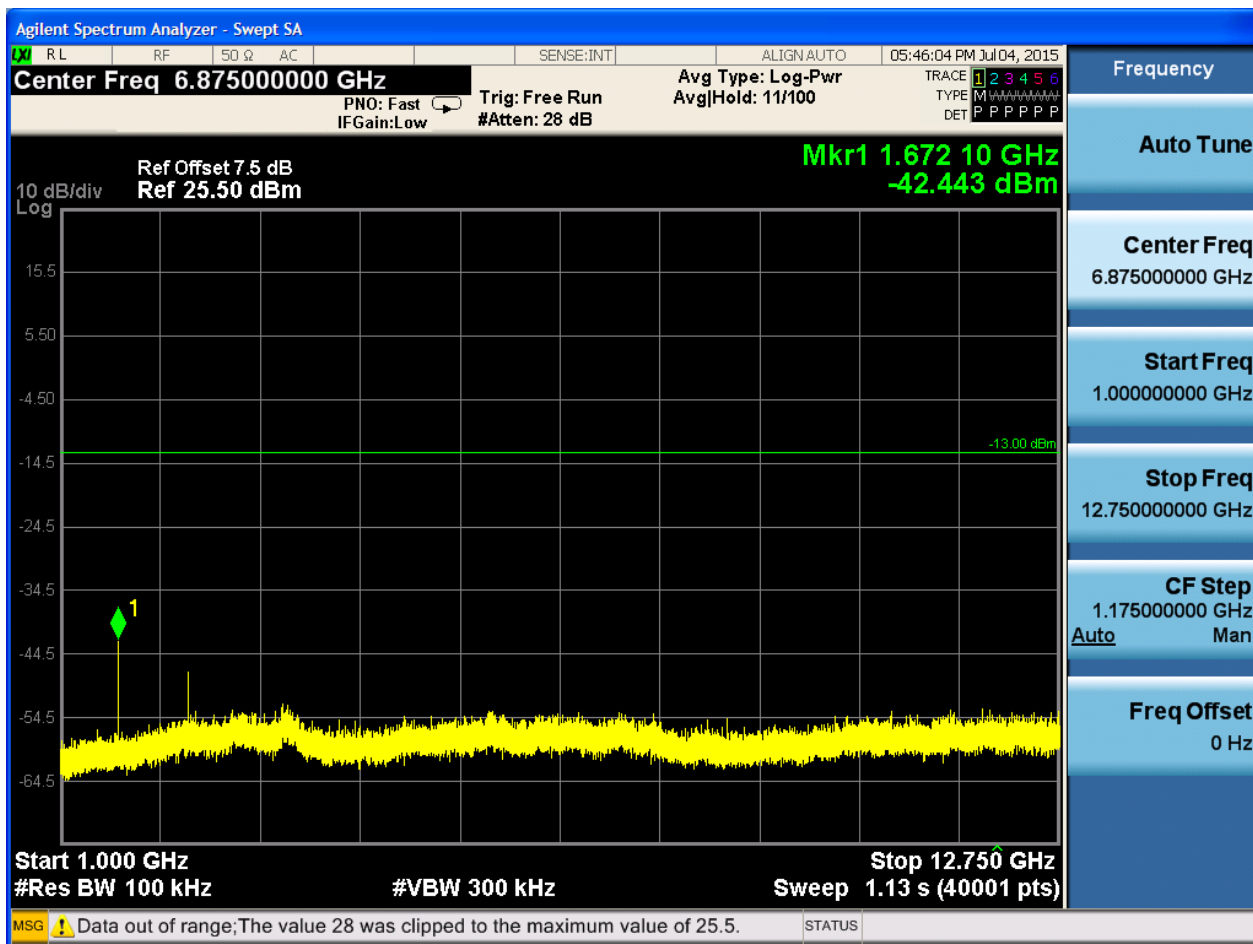
6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0





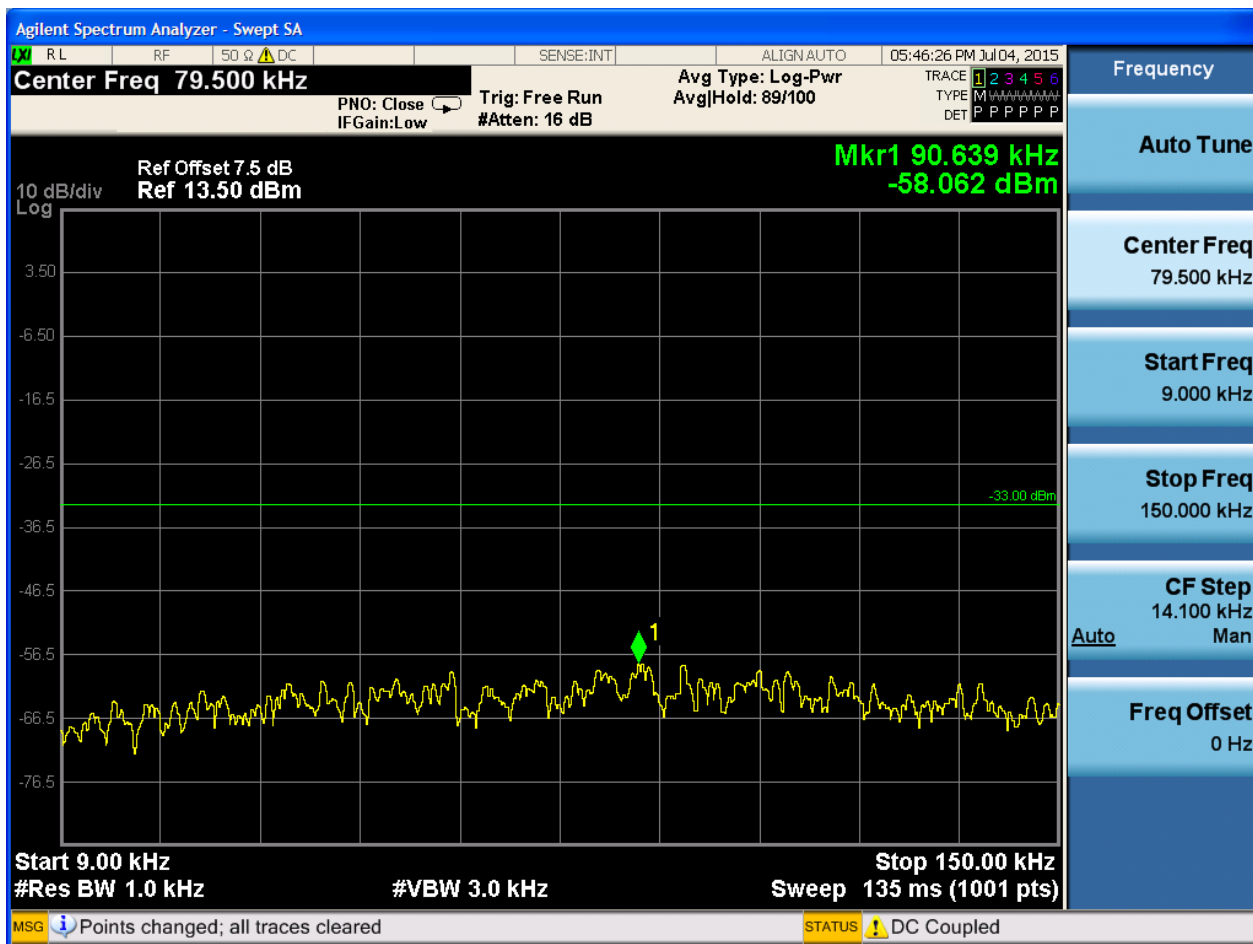




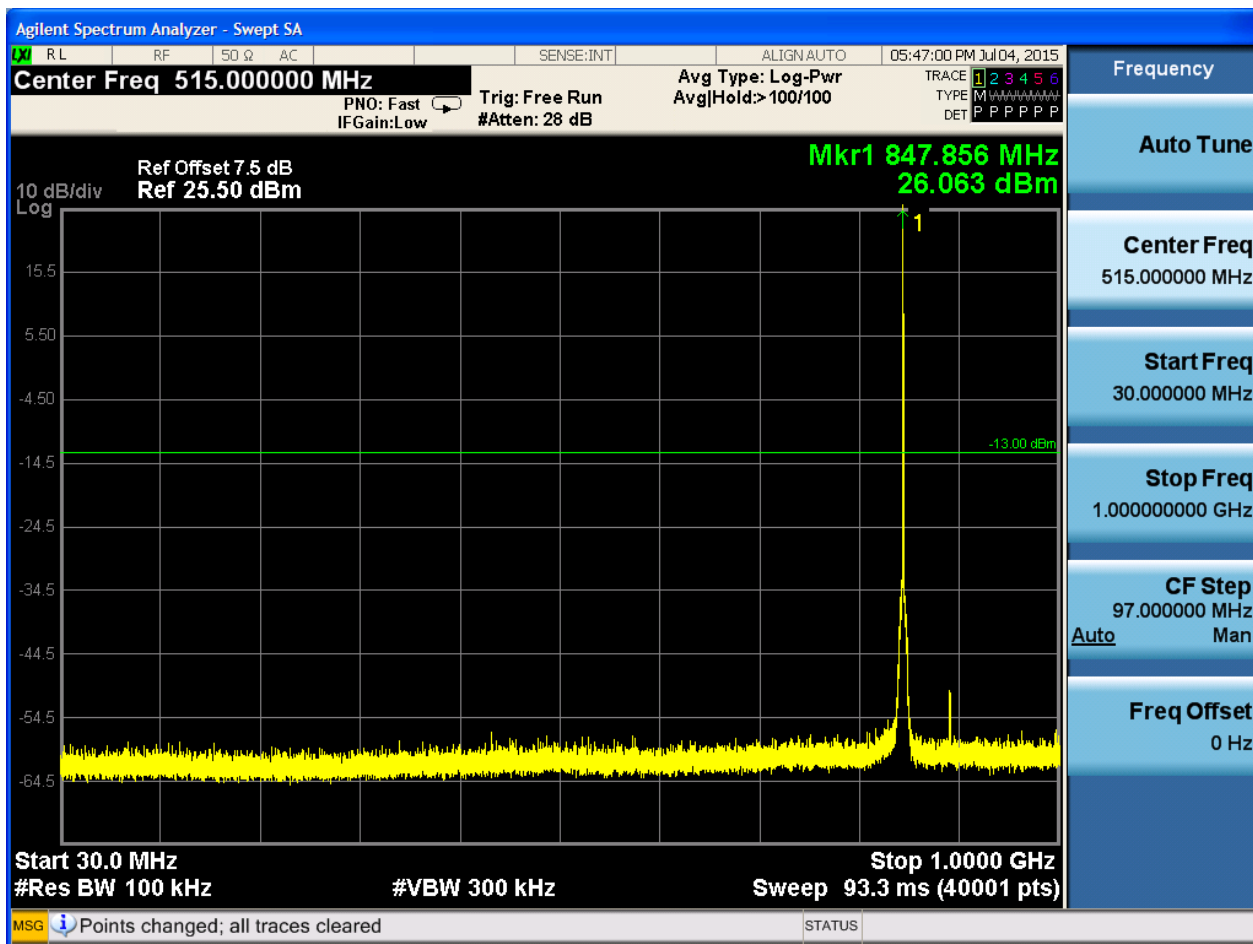


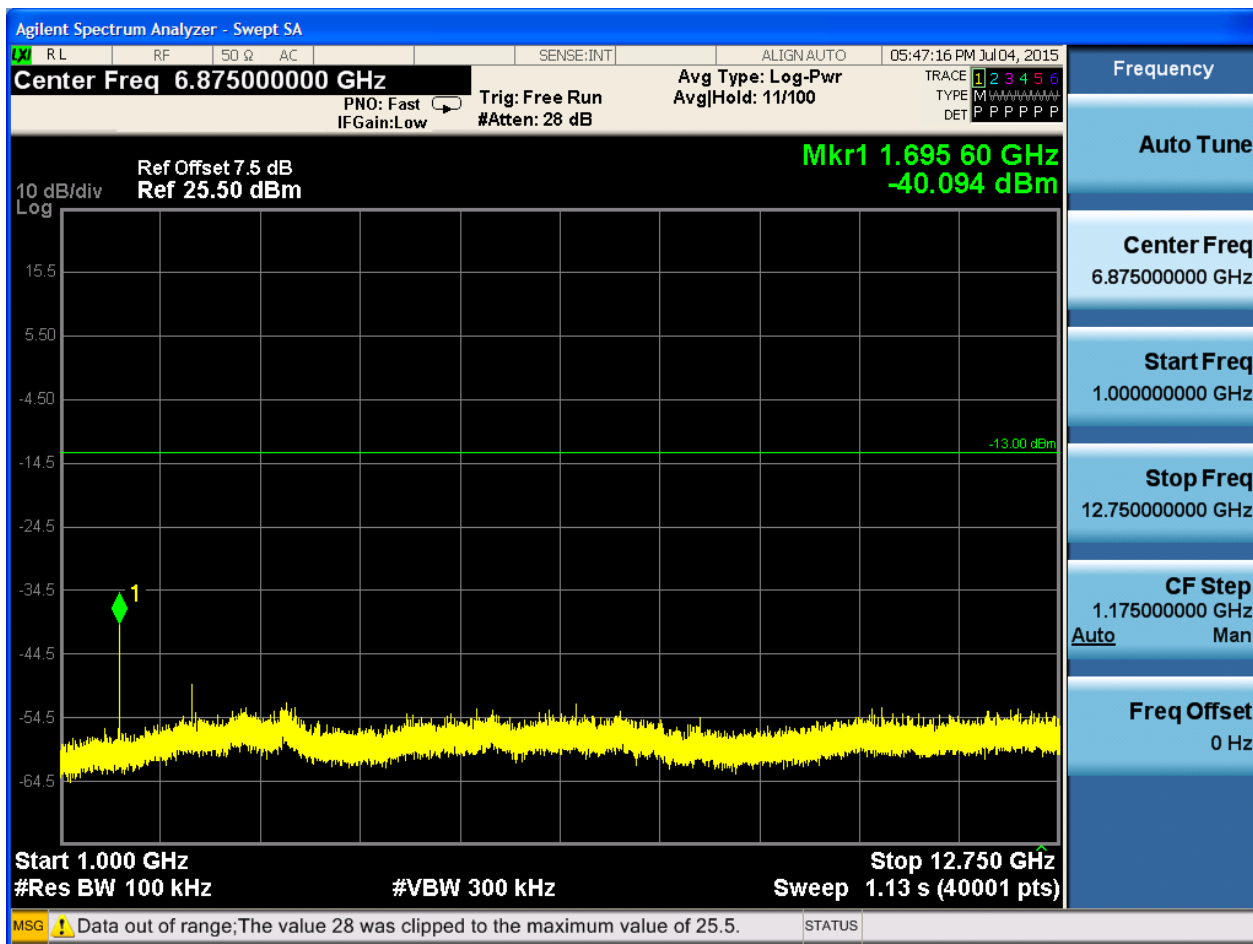
6.1.1.1.1.3 Test Channel = HCH

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

