



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	17.14	38.5	PASS
				RB1#3	23.15	17.22	38.5	PASS
				RB1#5	22.97	17.04	38.5	PASS
				RB3#0	23.05	17.12	38.5	PASS
				RB3#2	23.13	17.2	38.5	PASS
				RB3#3	23.04	17.11	38.5	PASS
				RB6#0	21.77	15.84	38.5	PASS
			MCH	RB1#0	22.91	16.98	38.5	PASS
				RB1#3	22.92	16.99	38.5	PASS
				RB1#5	22.81	16.88	38.5	PASS
				RB3#0	22.82	16.89	38.5	PASS
				RB3#2	22.89	16.96	38.5	PASS
				RB3#3	22.82	16.89	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[d Bm]	ERP[d Bm]	Limit [dBm]	Verdict
				RB6#0	21.56	15.63	38.5	PASS
			HCH	RB1#0	22.76	16.83	38.5	PASS
				RB1#3	22.91	16.98	38.5	PASS
				RB1#5	22.79	16.86	38.5	PASS
				RB3#0	22.78	16.85	38.5	PASS
				RB3#2	22.78	16.85	38.5	PASS
				RB3#3	22.75	16.82	38.5	PASS
				RB6#0	21.4	15.47	38.5	PASS
		3	LCH	RB1#0	22.94	17.01	38.5	PASS
				RB1#7	23.08	17.15	38.5	PASS
				RB1#14	22.54	16.61	38.5	PASS
				RB8#0	21.77	15.84	38.5	PASS
				RB8#4	21.7	15.77	38.5	PASS
				RB8#7	21.49	15.56	38.5	PASS
				RB15#0	21.63	15.7	38.5	PASS
			MCH	RB1#0	22.7	16.77	38.5	PASS
				RB1#7	22.91	16.98	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB1#14	22.65	16.72	38.5	PASS
				RB8#0	21.52	15.59	38.5	PASS
				RB8#4	21.59	15.66	38.5	PASS
				RB8#7	21.45	15.52	38.5	PASS
				RB15#0	21.51	15.58	38.5	PASS
			HCH	RB1#0	22.6	16.67	38.5	PASS
				RB1#7	22.88	16.95	38.5	PASS
				RB1#14	22.61	16.68	38.5	PASS
				RB8#0	21.36	15.43	38.5	PASS
				RB8#4	21.38	15.45	38.5	PASS
				RB8#7	21.33	15.4	38.5	PASS
				RB15#0	21.35	15.42	38.5	PASS
		5	LCH	RB1#0	22.89	16.96	38.5	PASS
				RB1#13	22.87	16.94	38.5	PASS
				RB1#24	22.38	16.45	38.5	PASS
				RB12#0	21.67	15.74	38.5	PASS
				RB12#6	21.63	15.7	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB12#13	21.25	15.32	38.5	PASS
				RB25#0	21.35	15.42	38.5	PASS
			MCH	RB1#0	22.59	16.66	38.5	PASS
				RB1#13	22.87	16.94	38.5	PASS
				RB1#24	22.47	16.54	38.5	PASS
				RB12#0	21.5	15.57	38.5	PASS
				RB12#6	21.57	15.64	38.5	PASS
				RB12#13	21.38	15.45	38.5	PASS
				RB25#0	21.39	15.46	38.5	PASS
			HCH	RB1#0	22.6	16.67	38.5	PASS
				RB1#13	22.75	16.82	38.5	PASS
				RB1#24	22.41	16.48	38.5	PASS
				RB12#0	21.37	15.44	38.5	PASS
				RB12#6	21.44	15.51	38.5	PASS
				RB12#13	21.19	15.26	38.5	PASS
				RB25#0	21.31	15.38	38.5	PASS
		10	LCH	RB1#0	22.77	16.84	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB1#25	22.74	16.81	38.5	PASS
				RB1#49	22.25	16.32	38.5	PASS
				RB25#0	21.35	15.42	38.5	PASS
				RB25#13	21.26	15.33	38.5	PASS
				RB25#25	21.02	15.09	38.5	PASS
				RB50#0	21.18	15.25	38.5	PASS
			MCH	RB1#0	22.47	16.54	38.5	PASS
				RB1#25	22.9	16.97	38.5	PASS
				RB1#49	22.15	16.22	38.5	PASS
				RB25#0	21.31	15.38	38.5	PASS
				RB25#13	21.41	15.48	38.5	PASS
				RB25#25	21.2	15.27	38.5	PASS
				RB50#0	21.15	15.22	38.5	PASS
			HCH	RB1#0	22.42	16.49	38.5	PASS
				RB1#25	22.79	16.86	38.5	PASS
				RB1#49	22.22	16.29	38.5	PASS
				RB25#0	21.3	15.37	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#13	21.41	15.48	38.5	PASS
				RB25#25	21.2	15.27	38.5	PASS
				RB50#0	21.33	15.4	38.5	PASS
	LTE/TM2	1.4	LCH	RB1#0	21.82	15.89	38.5	PASS
				RB1#3	22	16.07	38.5	PASS
				RB1#5	21.81	15.88	38.5	PASS
				RB3#0	21.81	15.88	38.5	PASS
				RB3#2	21.84	15.91	38.5	PASS
				RB3#3	21.69	15.76	38.5	PASS
				RB6#0	21.36	15.43	38.5	PASS
			MCH	RB1#0	21.53	15.6	38.5	PASS
				RB1#3	21.78	15.85	38.5	PASS
				RB1#5	21.52	15.59	38.5	PASS
				RB3#0	21.6	15.67	38.5	PASS
				RB3#2	21.65	15.72	38.5	PASS
				RB3#3	21.43	15.5	38.5	PASS
				RB6#0	21.15	15.22	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.68	15.75	38.5	PASS
				RB1#3	21.77	15.84	38.5	PASS
				RB1#5	21.7	15.77	38.5	PASS
				RB3#0	21.31	15.38	38.5	PASS
				RB3#2	21.42	15.49	38.5	PASS
				RB3#3	21.27	15.34	38.5	PASS
				RB6#0	20.99	15.06	38.5	PASS
		3	LCH	RB1#0	21.47	15.54	38.5	PASS
				RB1#7	21.9	15.97	38.5	PASS
				RB1#14	21.33	15.4	38.5	PASS
				RB8#0	21.32	15.39	38.5	PASS
				RB8#4	21.22	15.29	38.5	PASS
				RB8#7	21.07	15.14	38.5	PASS
				RB15#0	21.07	15.14	38.5	PASS
			MCH	RB1#0	21.5	15.57	38.5	PASS
				RB1#7	21.84	15.91	38.5	PASS
				RB1#14	21.45	15.52	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB8#0	21.13	15.2	38.5	PASS
				RB8#4	21.15	15.22	38.5	PASS
				RB8#7	21.02	15.09	38.5	PASS
				RB15#0	20.98	15.05	38.5	PASS
			HCH	RB1#0	21.25	15.32	38.5	PASS
				RB1#7	21.53	15.6	38.5	PASS
				RB1#14	21.31	15.38	38.5	PASS
				RB8#0	20.92	14.99	38.5	PASS
				RB8#4	20.93	15	38.5	PASS
				RB8#7	20.88	14.95	38.5	PASS
				RB15#0	20.84	14.91	38.5	PASS
		5	LCH	RB1#0	21.69	15.76	38.5	PASS
				RB1#13	21.65	15.72	38.5	PASS
				RB1#24	21.19	15.26	38.5	PASS
				RB12#0	21.19	15.26	38.5	PASS
				RB12#6	21.16	15.23	38.5	PASS
				RB12#13	20.75	14.82	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#0	20.87	14.94	38.5	PASS
			MCH	RB1#0	21.39	15.46	38.5	PASS
				RB1#13	21.78	15.85	38.5	PASS
				RB1#24	21.35	15.42	38.5	PASS
				RB12#0	21.06	15.13	38.5	PASS
				RB12#6	21.09	15.16	38.5	PASS
				RB12#13	20.89	14.96	38.5	PASS
				RB25#0	20.89	14.96	38.5	PASS
			HCH	RB1#0	21.46	15.53	38.5	PASS
				RB1#13	21.59	15.66	38.5	PASS
				RB1#24	21.23	15.3	38.5	PASS
				RB12#0	20.95	15.02	38.5	PASS
				RB12#6	21.02	15.09	38.5	PASS
				RB12#13	20.74	14.81	38.5	PASS
				RB25#0	20.88	14.95	38.5	PASS
		10	LCH	RB1#0	21.47	15.54	38.5	PASS
				RB1#25	21.64	15.71	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB1#49	21.04	15.11	38.5	PASS
				RB25#0	20.87	14.94	38.5	PASS
				RB25#13	20.75	14.82	38.5	PASS
				RB25#25	20.57	14.64	38.5	PASS
				RB50#0	20.62	14.69	38.5	PASS
			MCH	RB1#0	21.2	15.27	38.5	PASS
				RB1#25	21.7	15.77	38.5	PASS
				RB1#49	20.88	14.95	38.5	PASS
				RB25#0	20.85	14.92	38.5	PASS
				RB25#13	20.91	14.98	38.5	PASS
				RB25#25	20.69	14.76	38.5	PASS
				RB50#0	20.64	14.71	38.5	PASS
			HCH	RB1#0	21.05	15.12	38.5	PASS
				RB1#25	21.53	15.6	38.5	PASS
				RB1#49	20.89	14.96	38.5	PASS
				RB25#0	20.82	14.89	38.5	PASS
				RB25#13	20.97	15.04	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#25	20.76	14.83	38.5	PASS
				RB50#0	20.89	14.96	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:

$$\text{SET Span} = 1.5 \times \text{OBW}$$

$$\text{SET RBW} = 1\% \text{ of the OBW, not to exceed 1MHz}$$

$$\text{SET VBW} \geq 3 \times \text{RBW}$$

$$\text{SET Sweep time} = \text{auto-couple.}$$

Detector: RMS



2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Viod

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

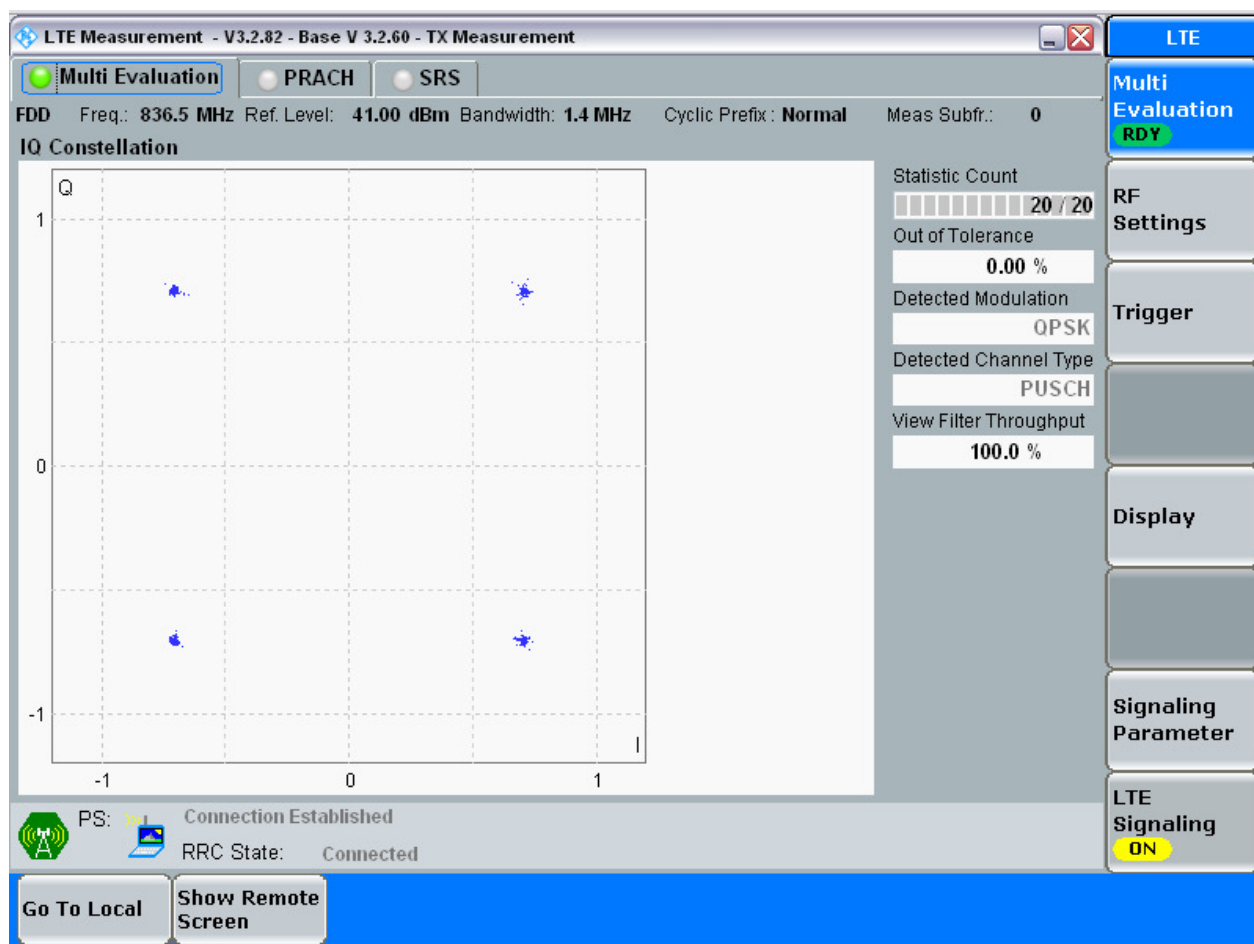
3.1.1 Test Band = BAND5

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

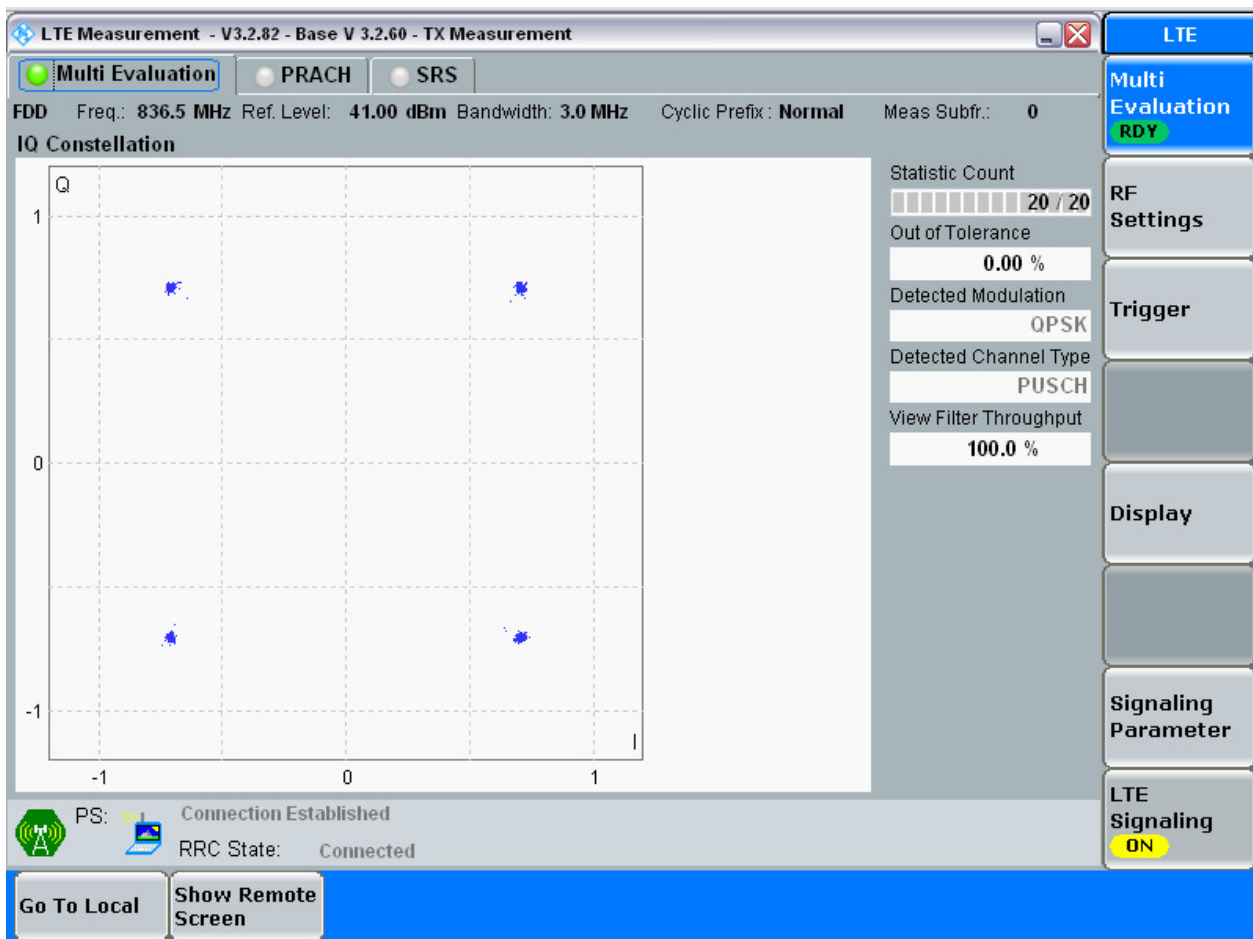
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

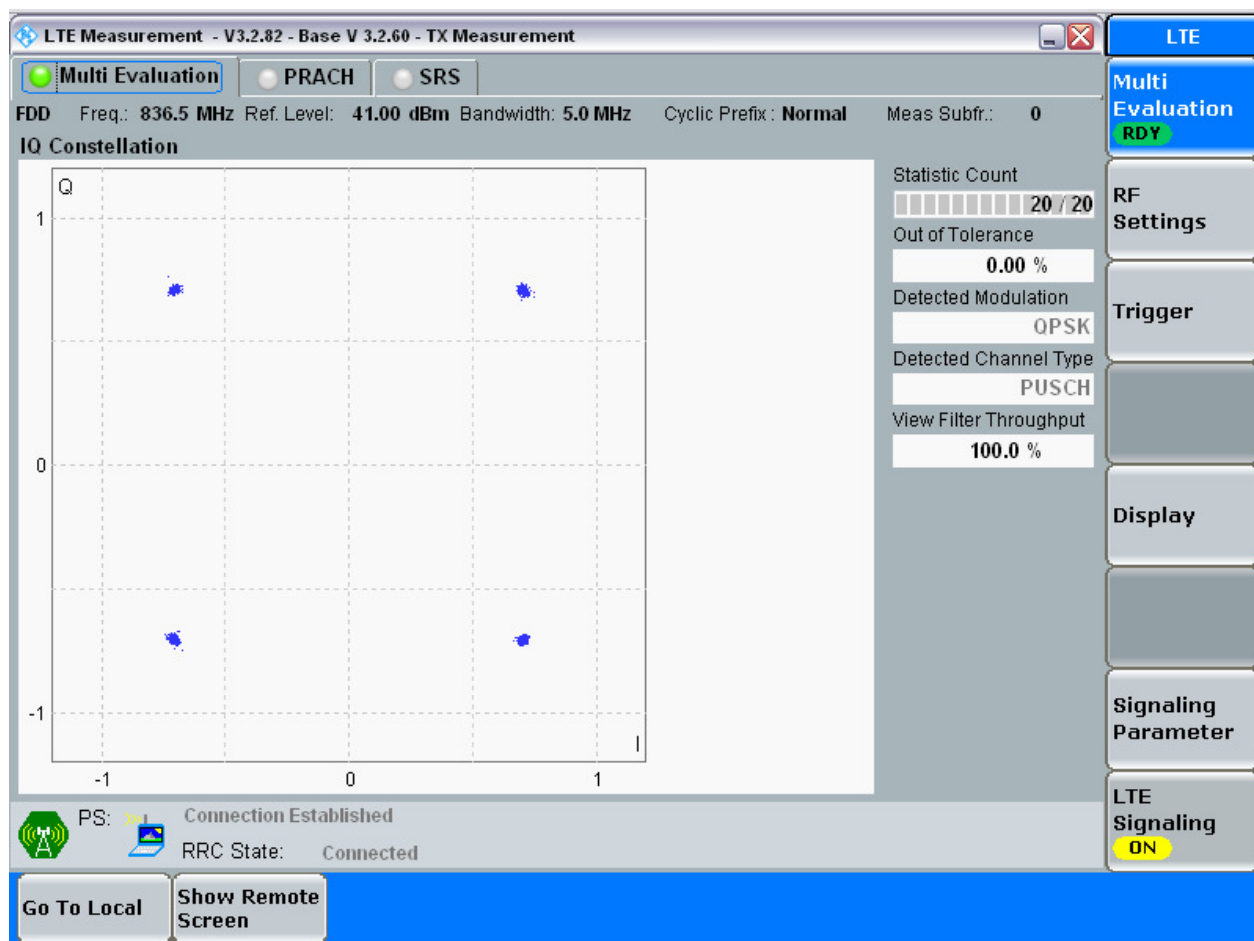
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

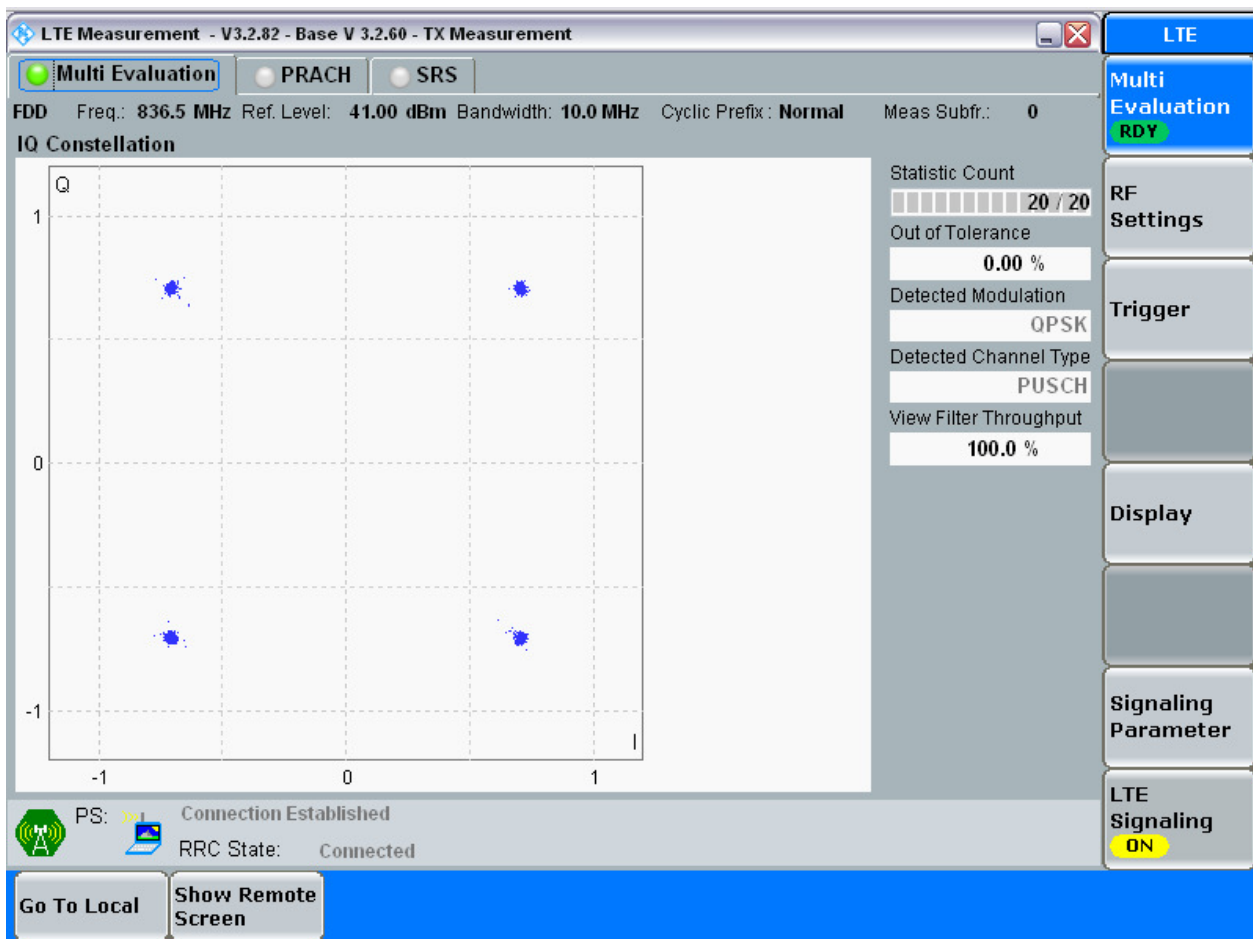
3.1.1.1.3.1.1 Test RB = RB25#0



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

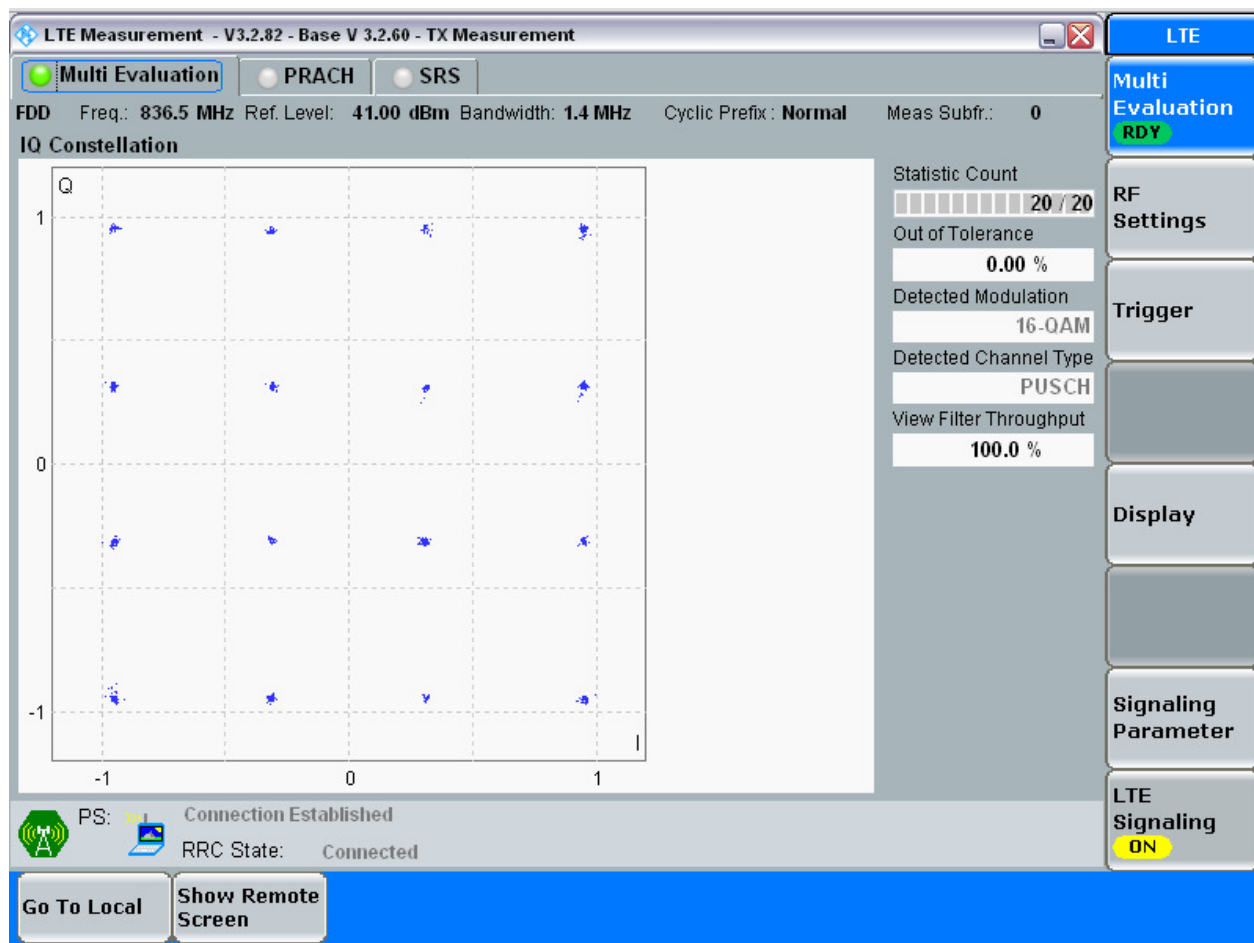


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

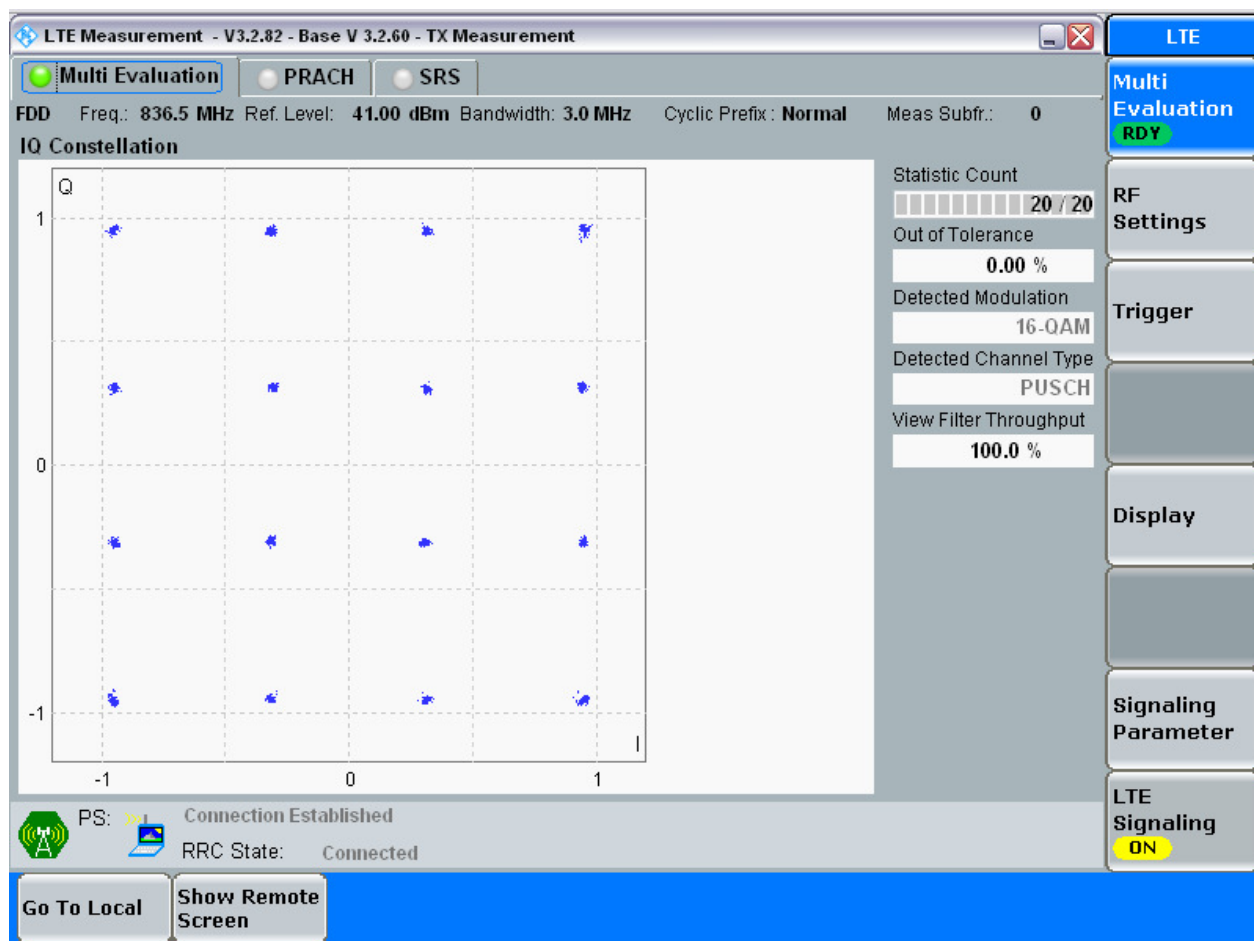
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

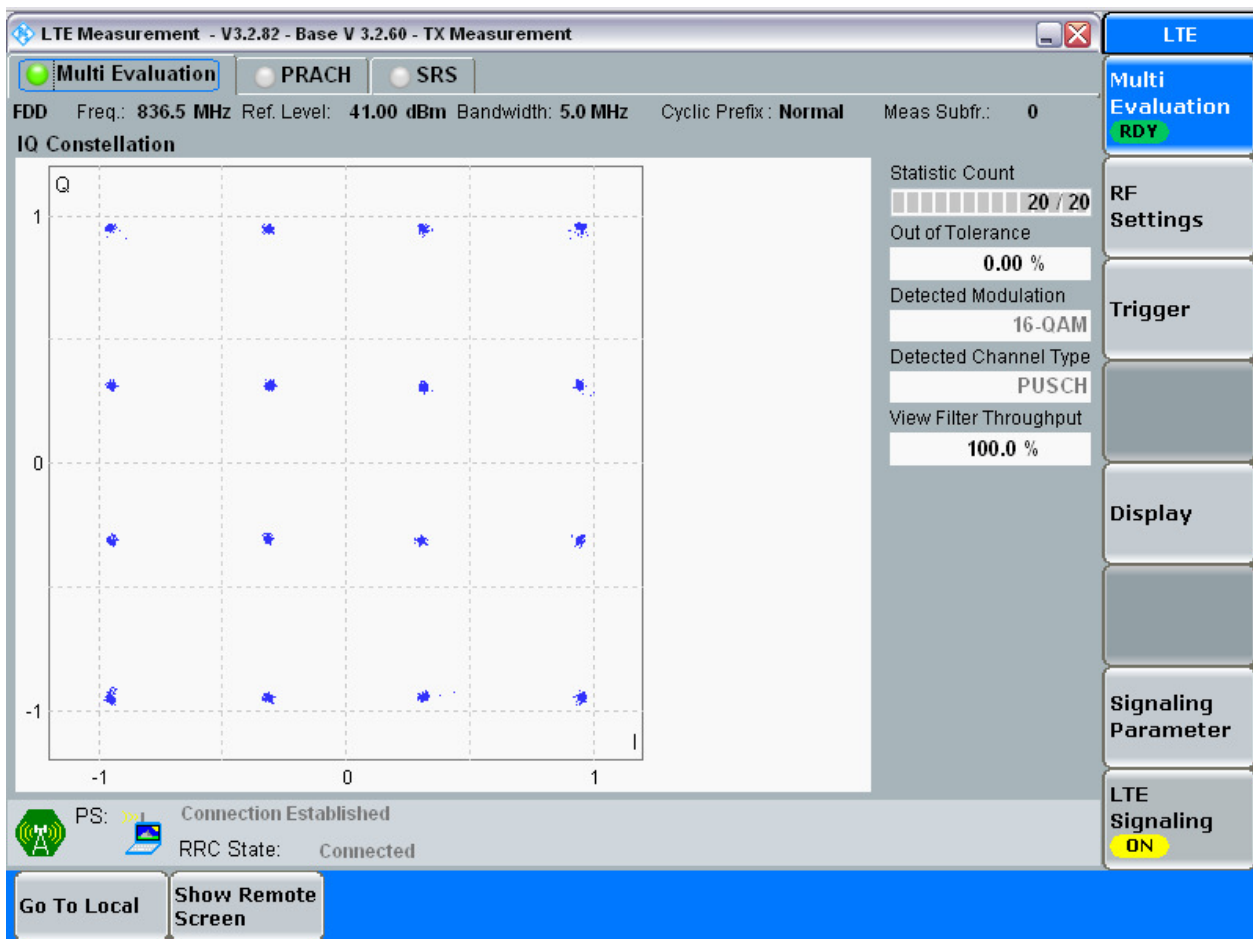
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

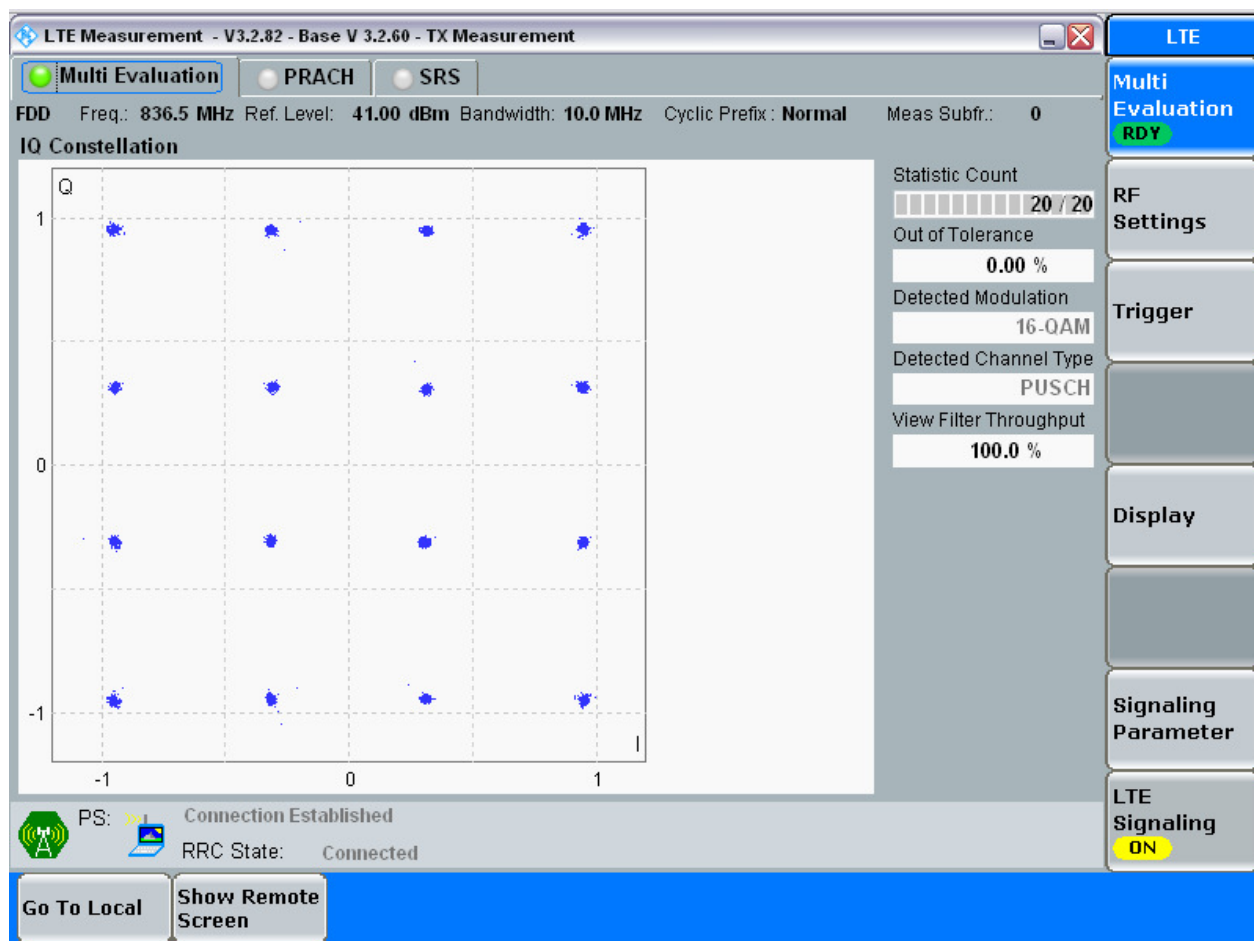
3.1.1.2.3.1.1 Test RB = RB25#0



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	1.10	1.24	Pass
			MCH	RB6#0	1.09	1.24	Pass
			HCH	RB6#0	1.09	1.24	Pass
		3	LCH	RB15#0	2.70	2.99	Pass
			MCH	RB15#0	2.71	2.98	Pass
			HCH	RB15#0	2.71	2.97	Pass
		5	LCH	RB25#0	4.52	4.97	Pass
			MCH	RB25#0	4.51	4.96	Pass
			HCH	RB25#0	4.52	4.96	Pass
		10	LCH	RB50#0	9.00	9.89	Pass
			MCH	RB50#0	8.98	9.91	Pass
			HCH	RB50#0	8.98	9.85	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.10	1.24	Pass
			MCH	RB6#0	1.10	1.24	Pass
			HCH	RB6#0	1.10	1.24	Pass
		3	LCH	RB15#0	2.71	3.00	Pass
			MCH	RB15#0	2.71	2.99	Pass
			HCH	RB15#0	2.71	2.98	Pass
		5	LCH	RB25#0	4.52	4.96	Pass
			MCH	RB25#0	4.51	4.97	Pass
			HCH	RB25#0	4.51	4.96	Pass
		10	LCH	RB50#0	9.01	9.90	Pass
			MCH	RB50#0	9.00	9.97	Pass
			HCH	RB50#0	8.99	9.90	Pass



Part II - Test Plots

4.1 For LTE

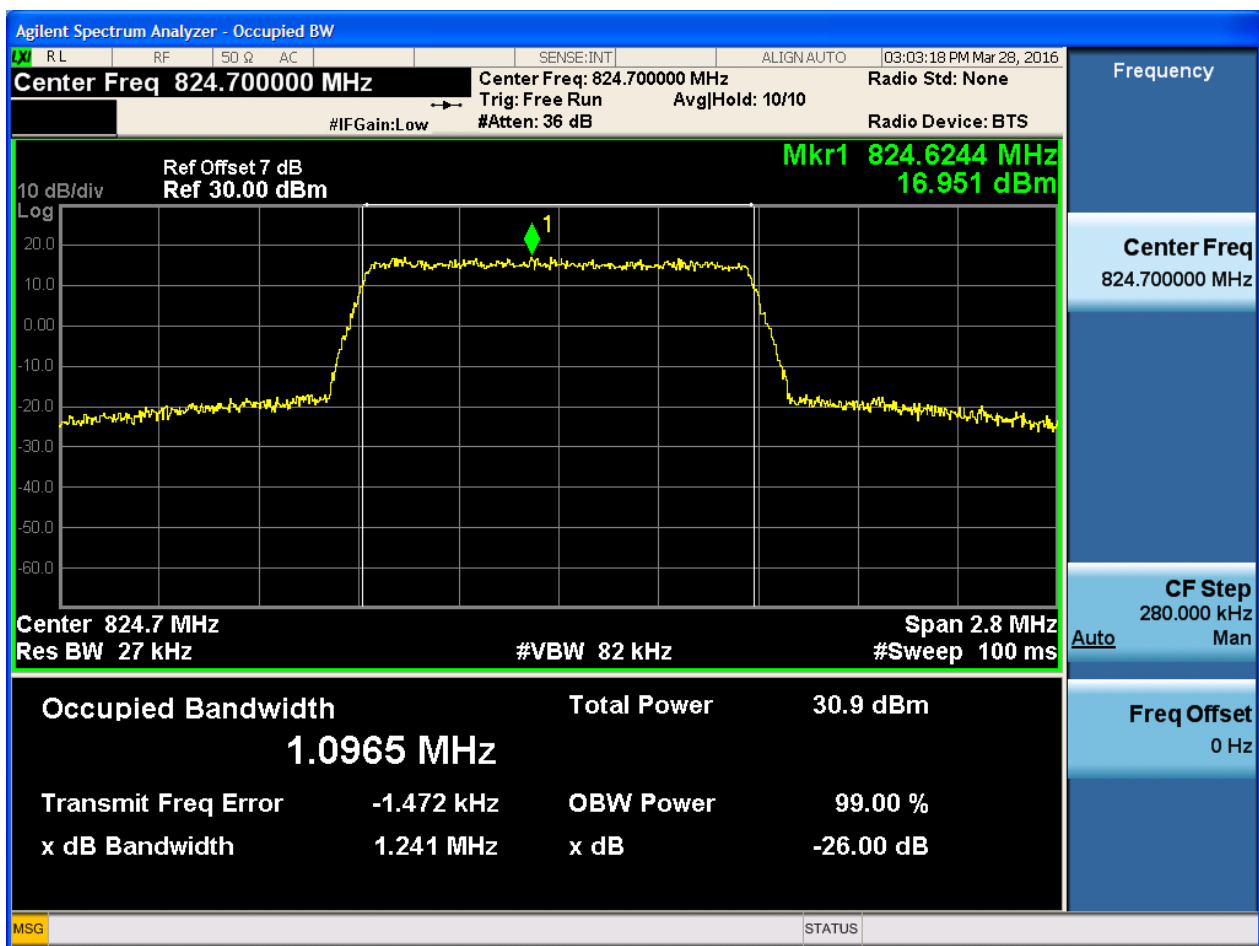
4.1.1 Test Band = BAND5

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

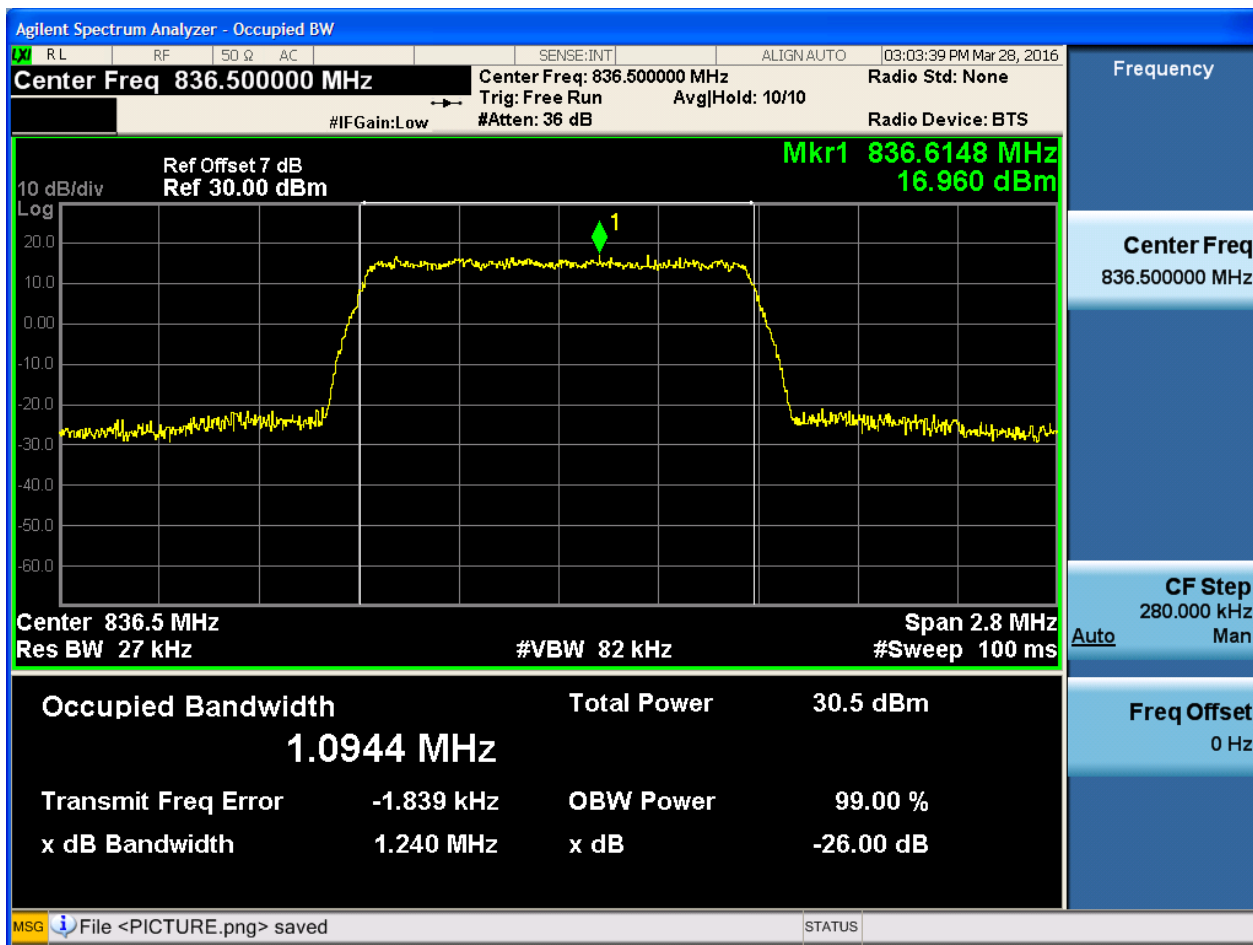
4.1.1.1.1.1.1 Test RB = RB6#0





4.1.1.1.1.2 Test Channel = MCH

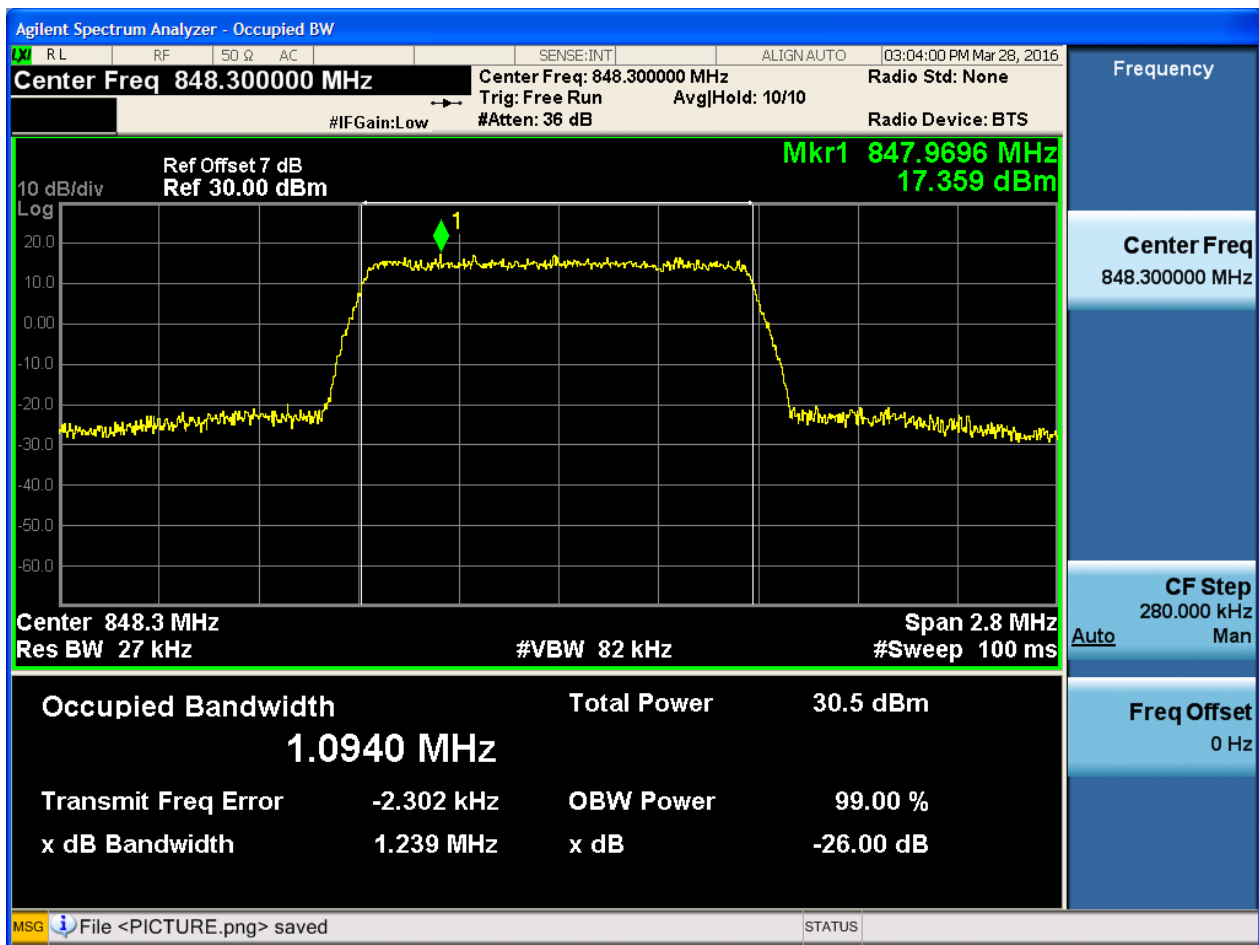
4.1.1.1.1.2.1 Test RB = RB6#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

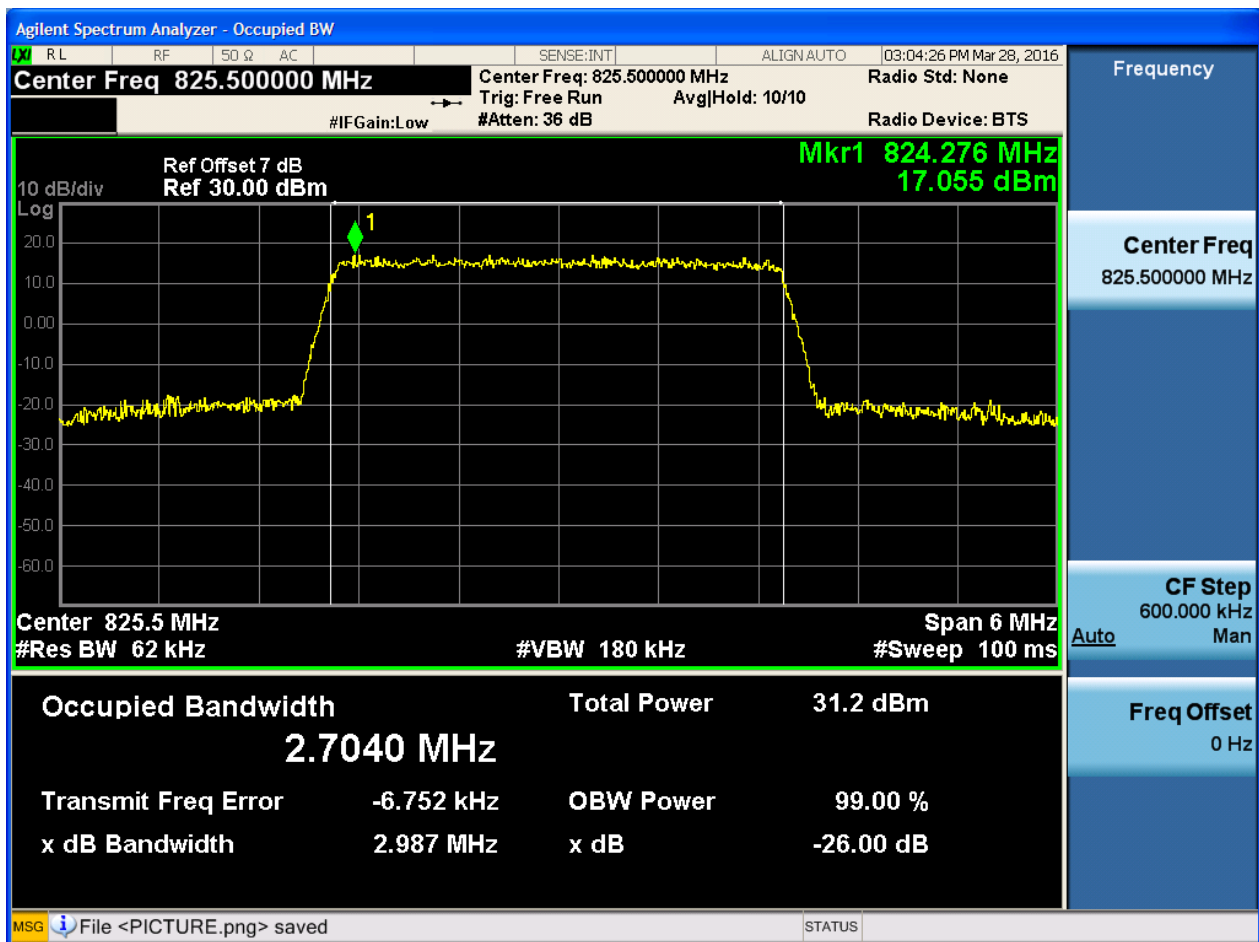




4.1.1.1.2 Test Bandwidth = 3

4.1.1.1.2.1 Test Channel = LCH

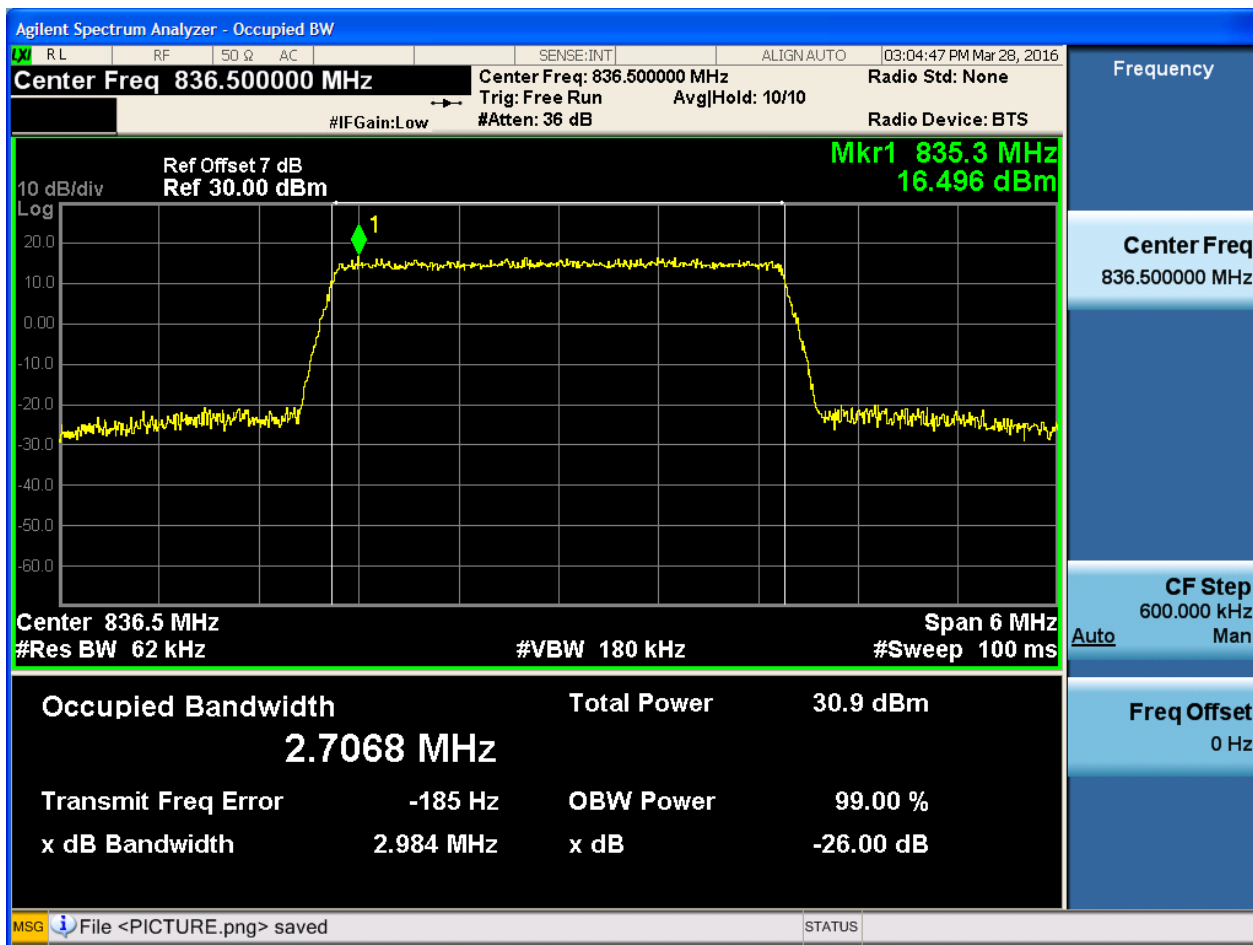
4.1.1.1.2.1.1 Test RB = RB15#0





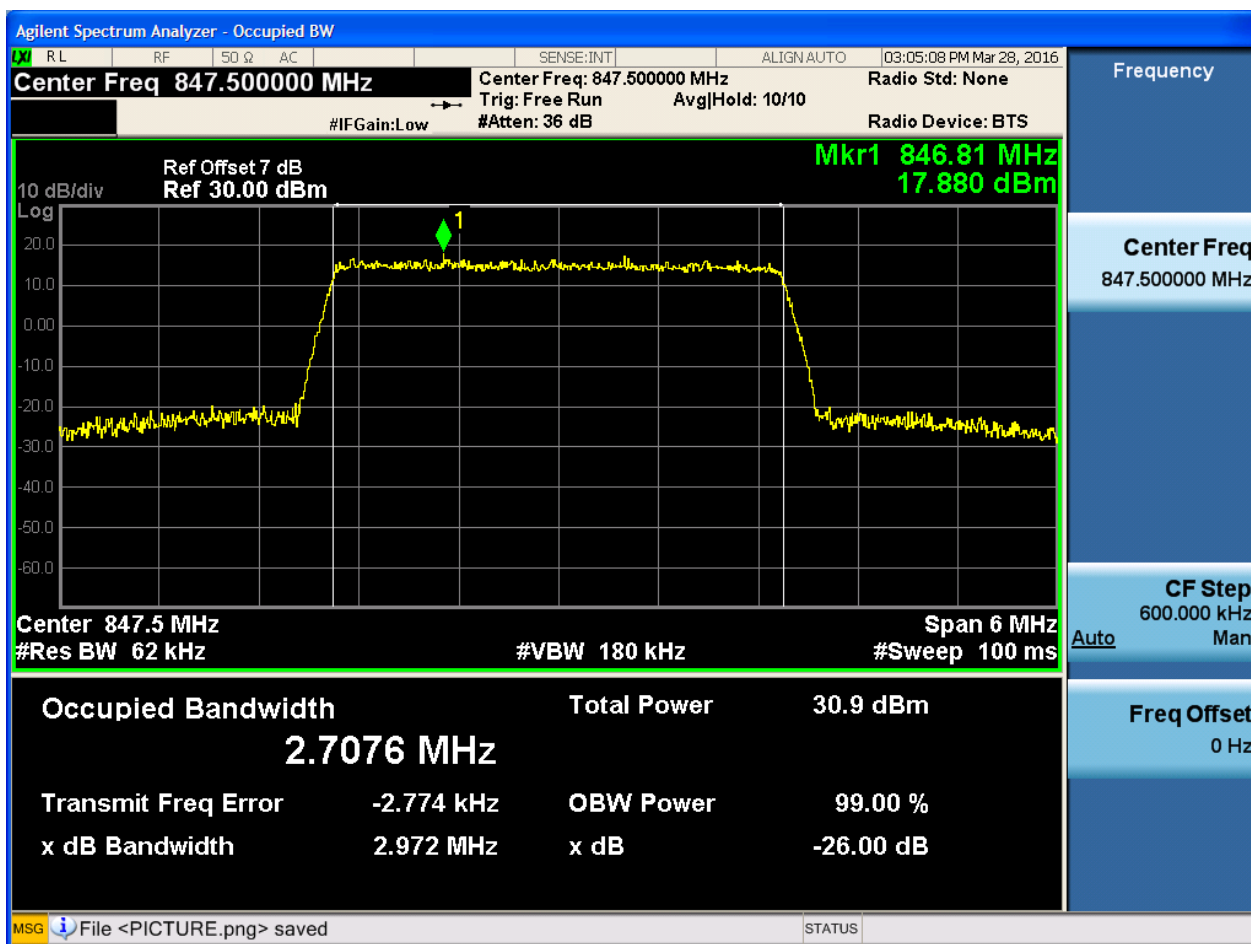
4.1.1.1.2.2 Test Channel = MCH

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

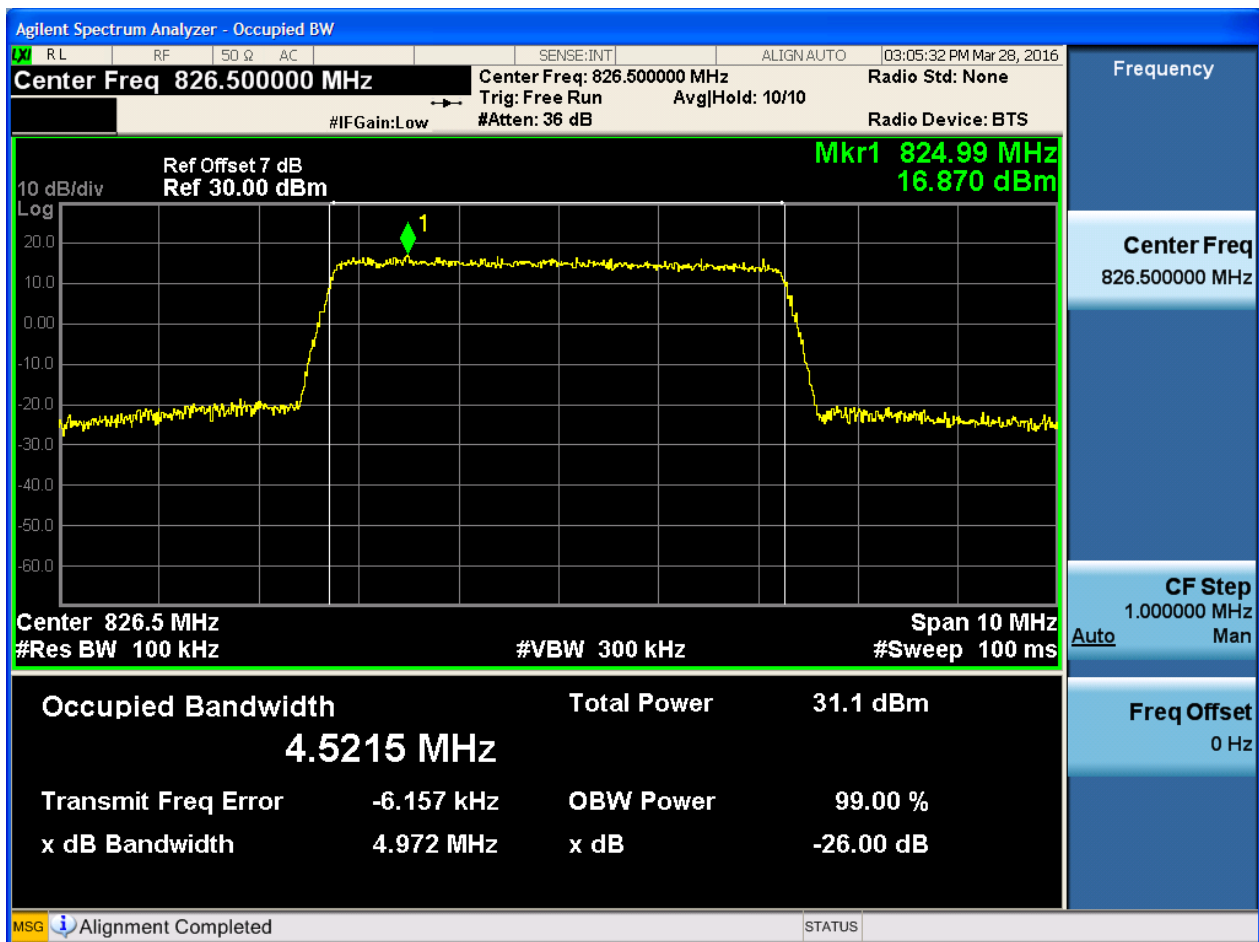




4.1.1.1.3 Test Bandwidth = 5

4.1.1.1.3.1 Test Channel = LCH

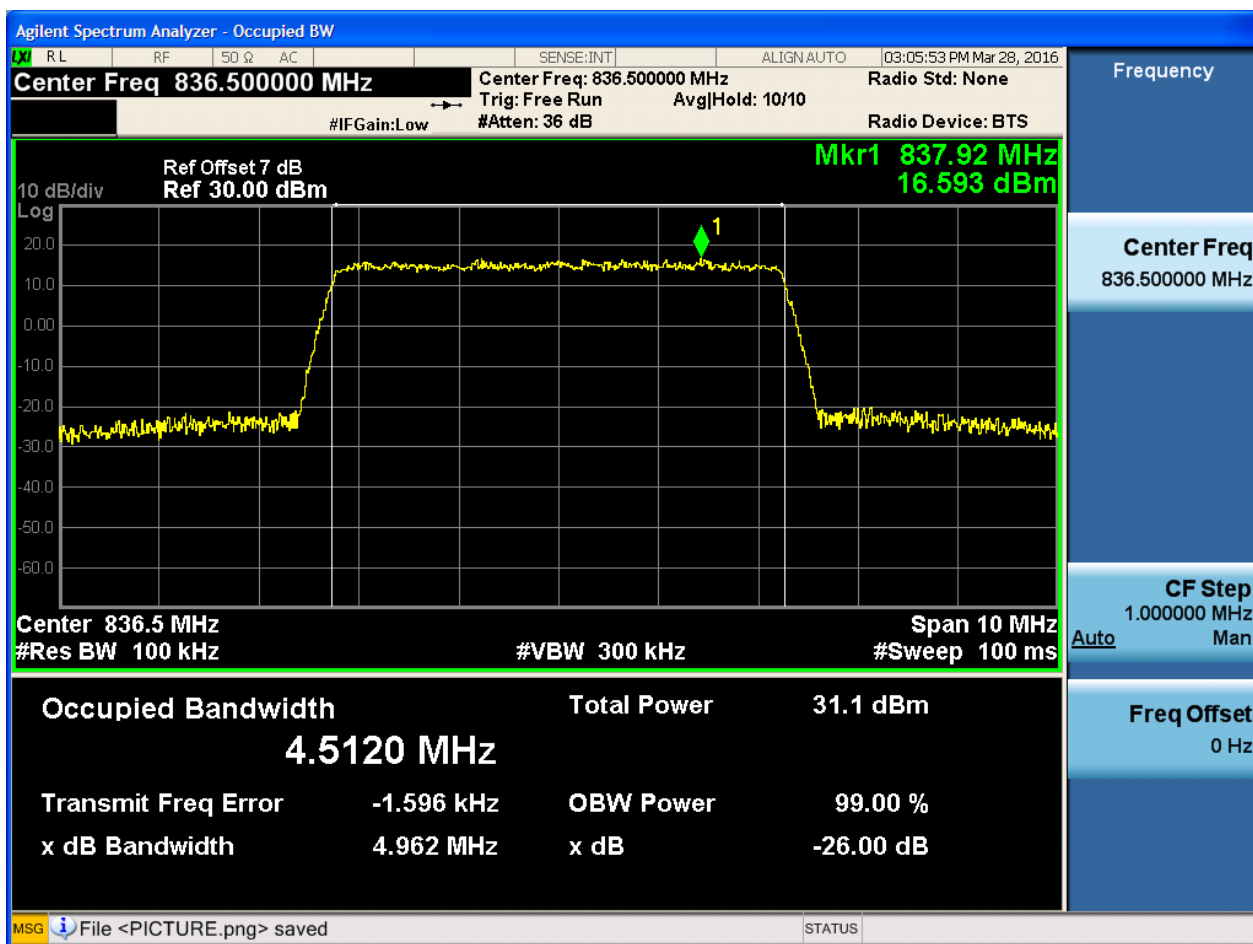
4.1.1.1.3.1.1 Test RB = RB25#0





4.1.1.1.3.2 Test Channel = MCH

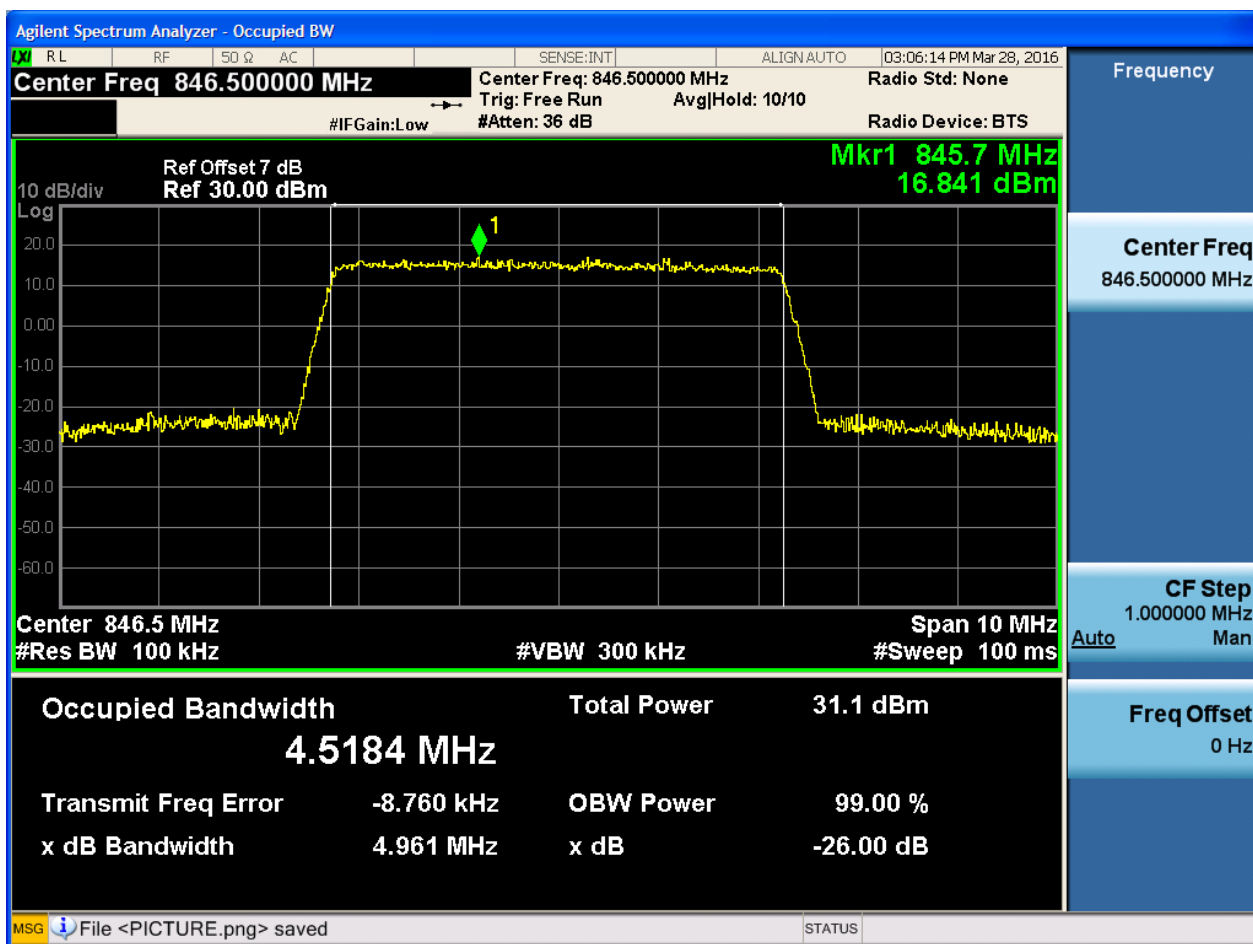
4.1.1.1.3.2.1 Test RB = RB25#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0

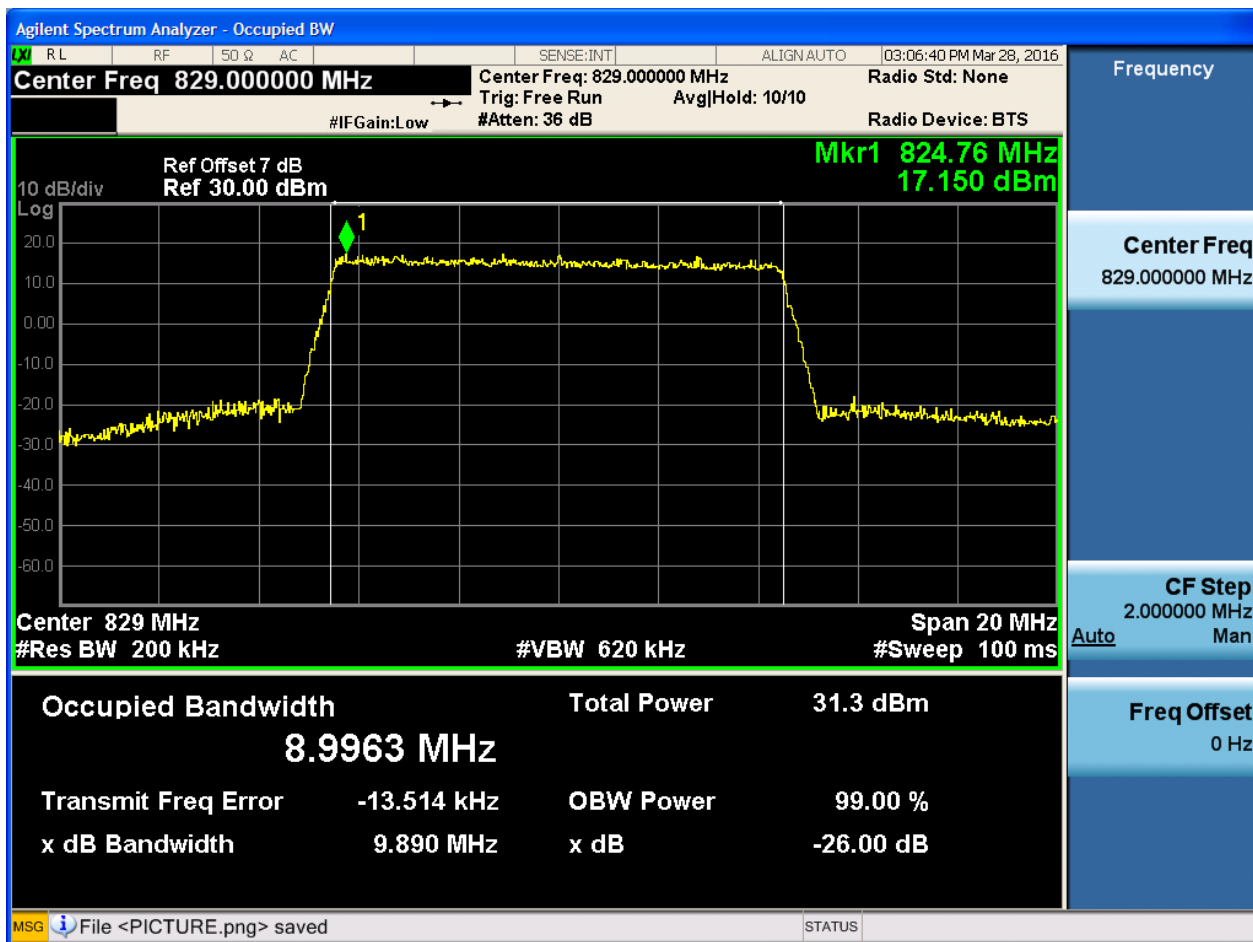




4.1.1.1.4 Test Bandwidth = 10

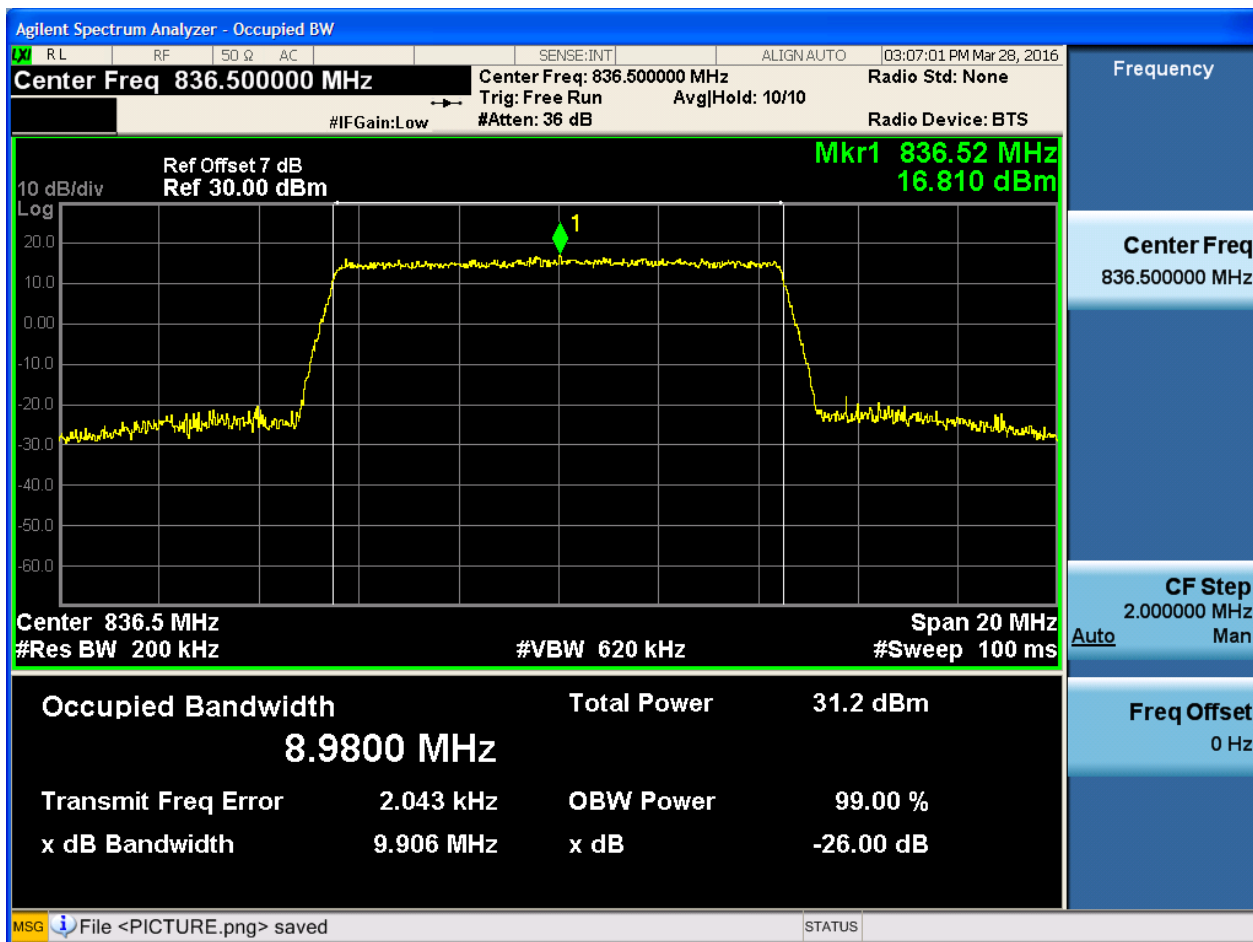
4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB50#0



4.1.1.1.4.2 Test Channel = MCH

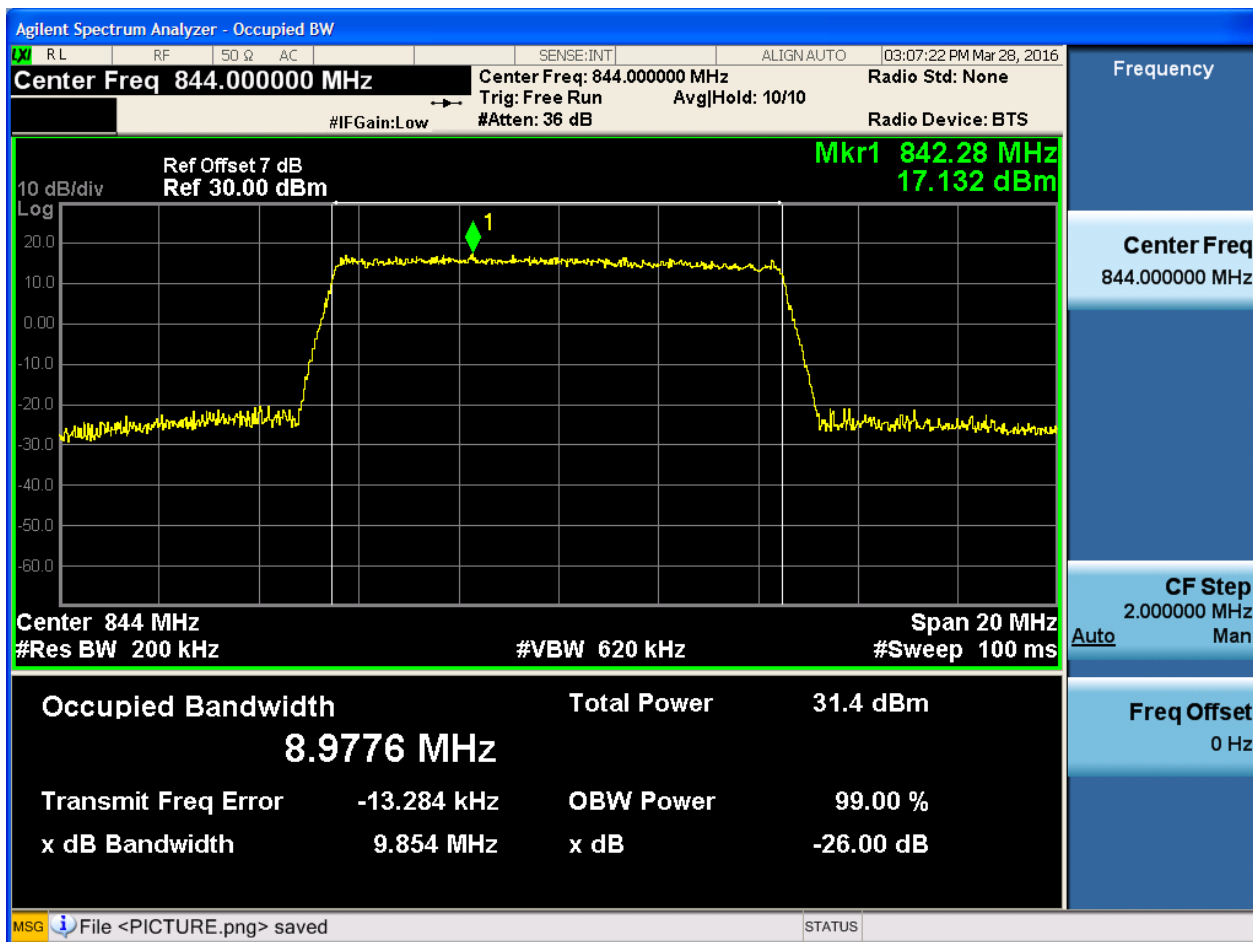
4.1.1.1.4.2.1 Test RB = RB50#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#0



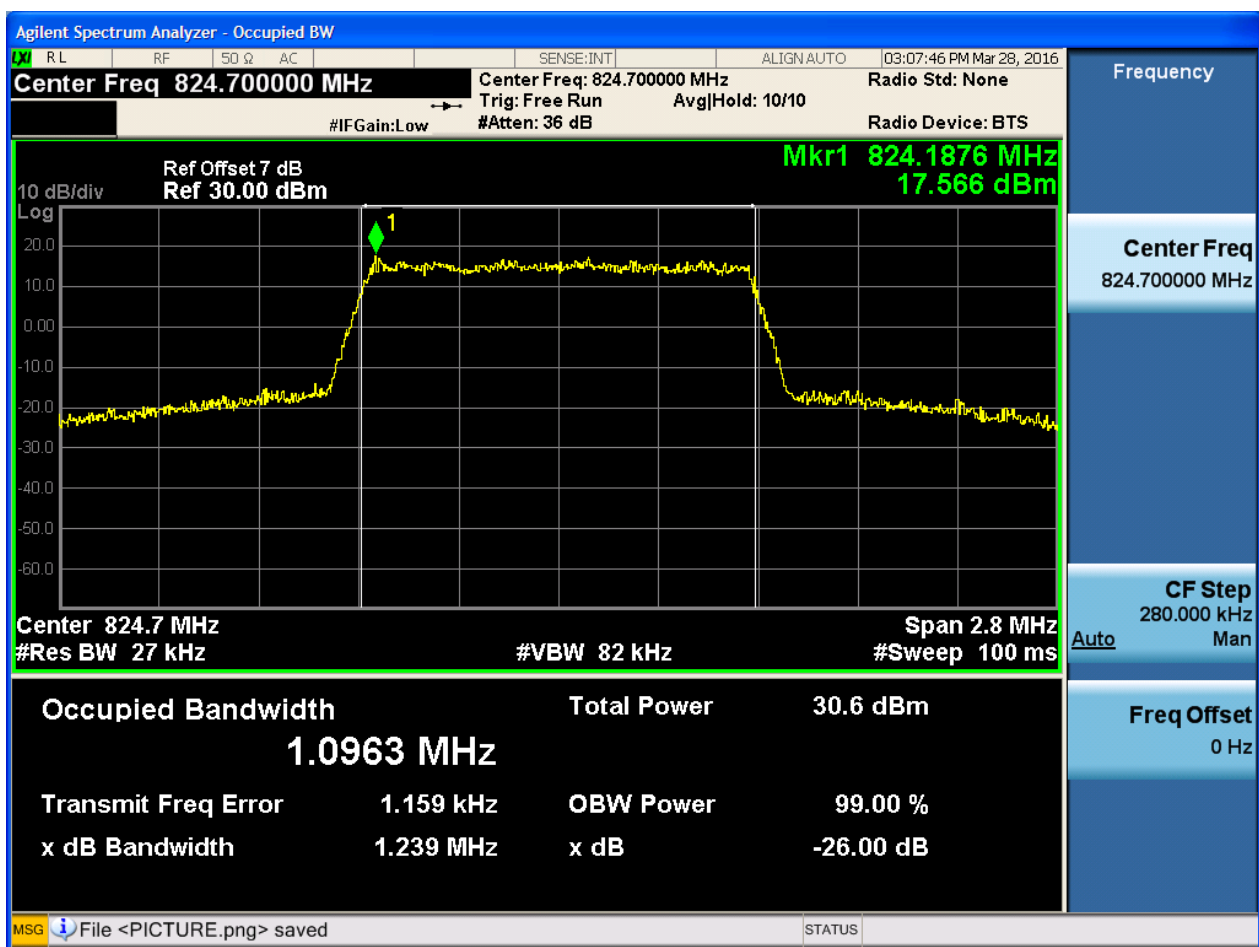


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

4.1.1.2.1.1 Test Channel = LCH

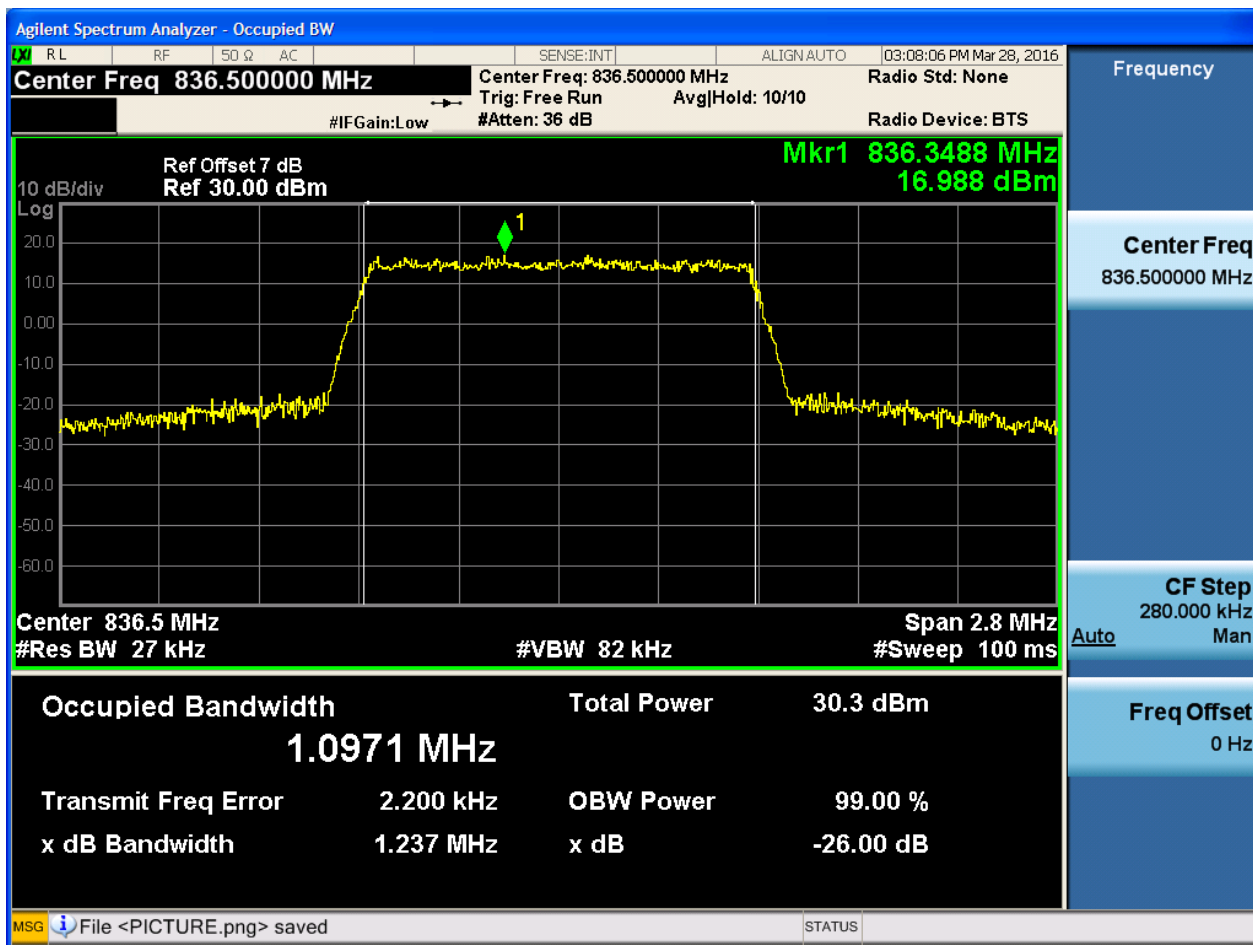
4.1.1.2.1.1.1 Test RB = RB6#0





4.1.1.2.1.2 Test Channel = MCH

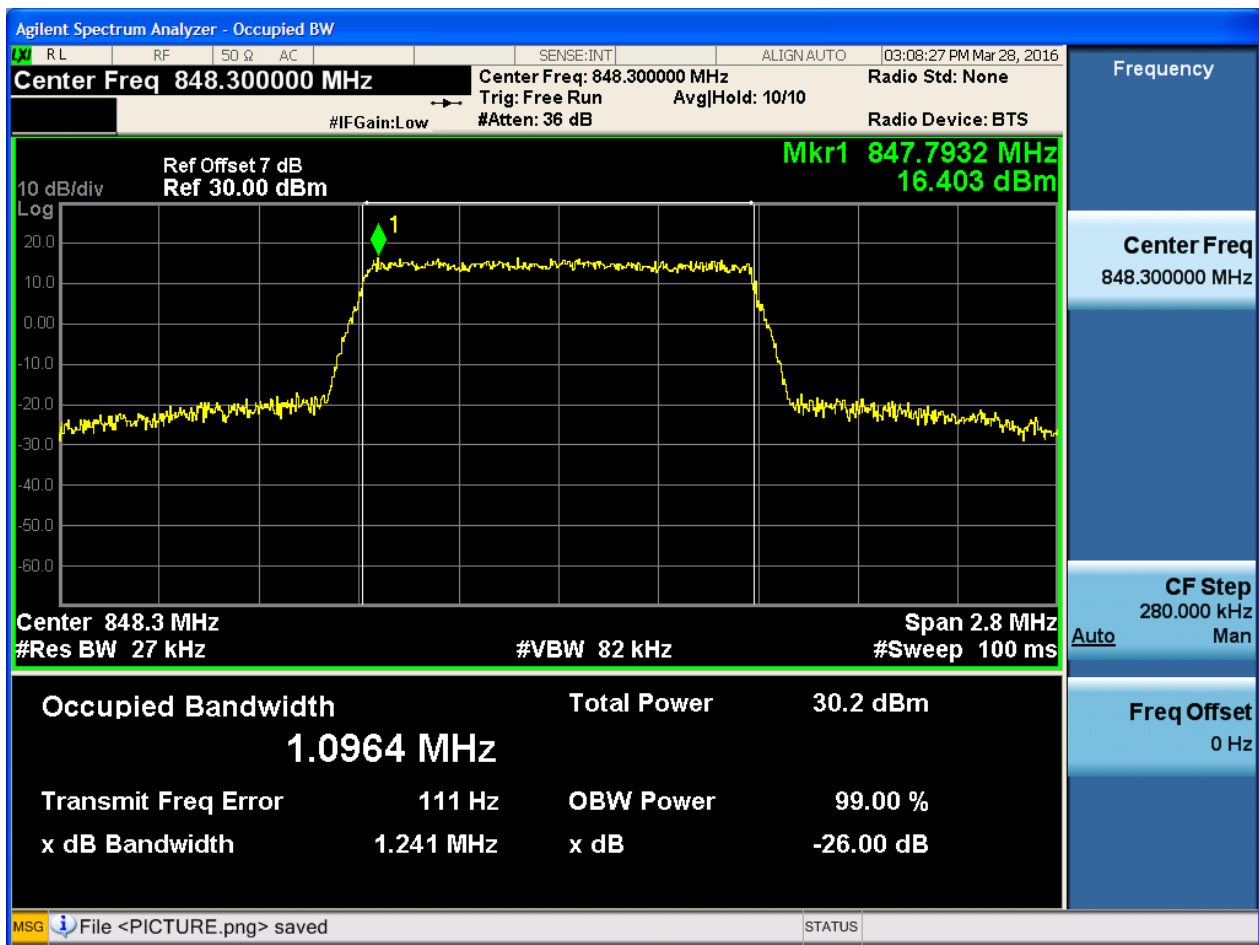
4.1.1.2.1.2.1 Test RB = RB6#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

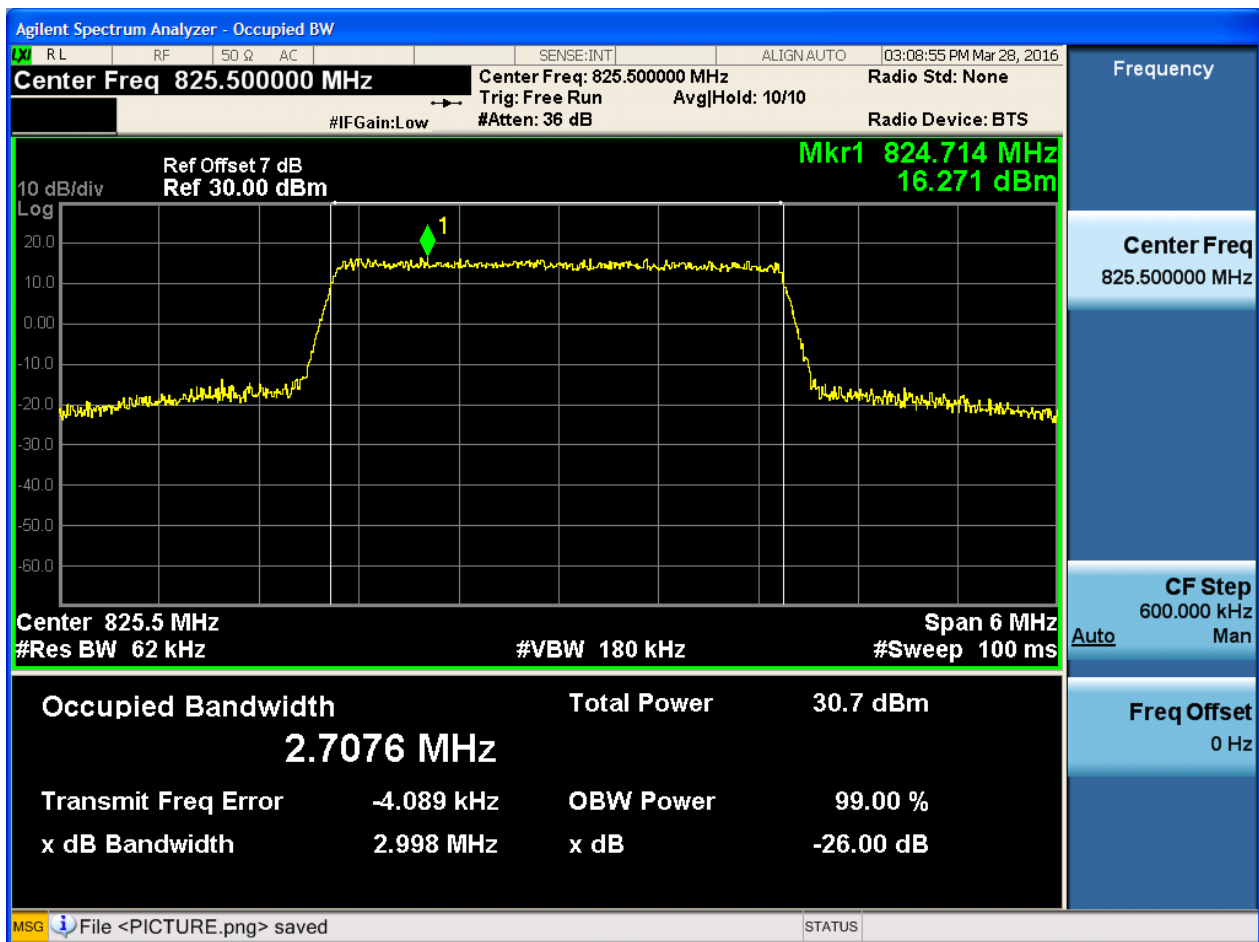




4.1.1.2.2 Test Bandwidth = 3

4.1.1.2.2.1 Test Channel = LCH

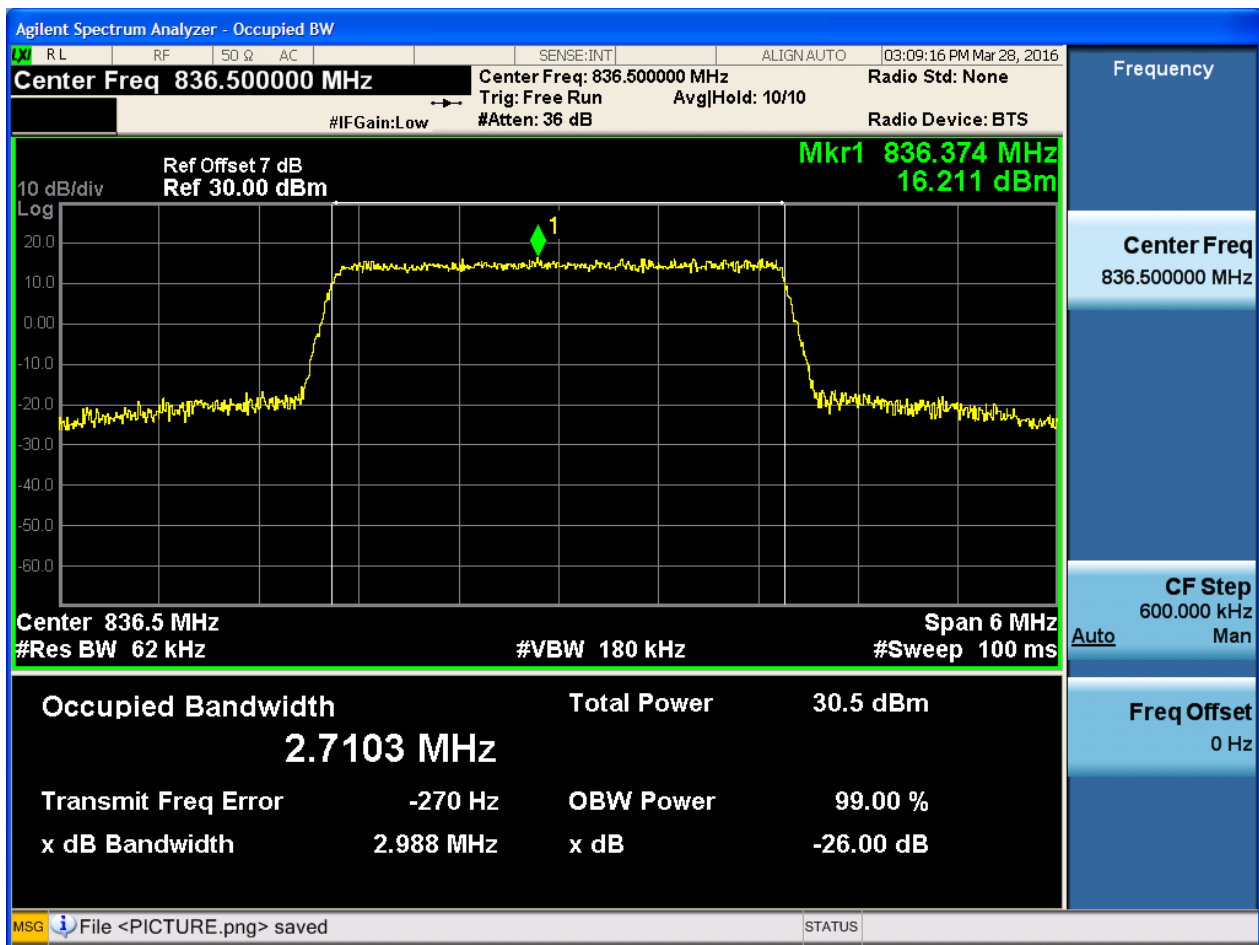
4.1.1.2.2.1.1 Test RB = RB15#0





4.1.1.2.2.2 Test Channel = MCH

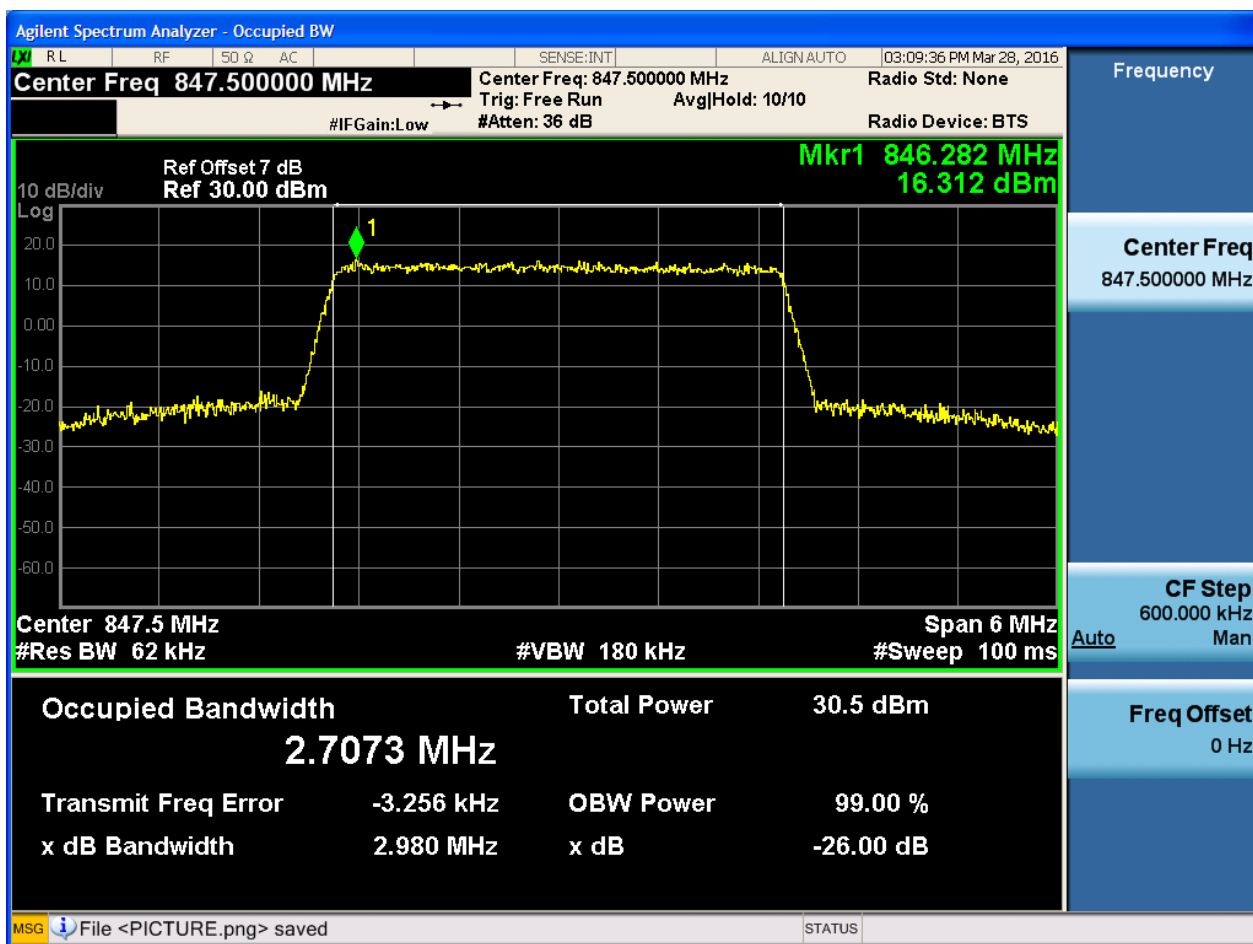
4.1.1.2.2.2.1 Test RB = RB15#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

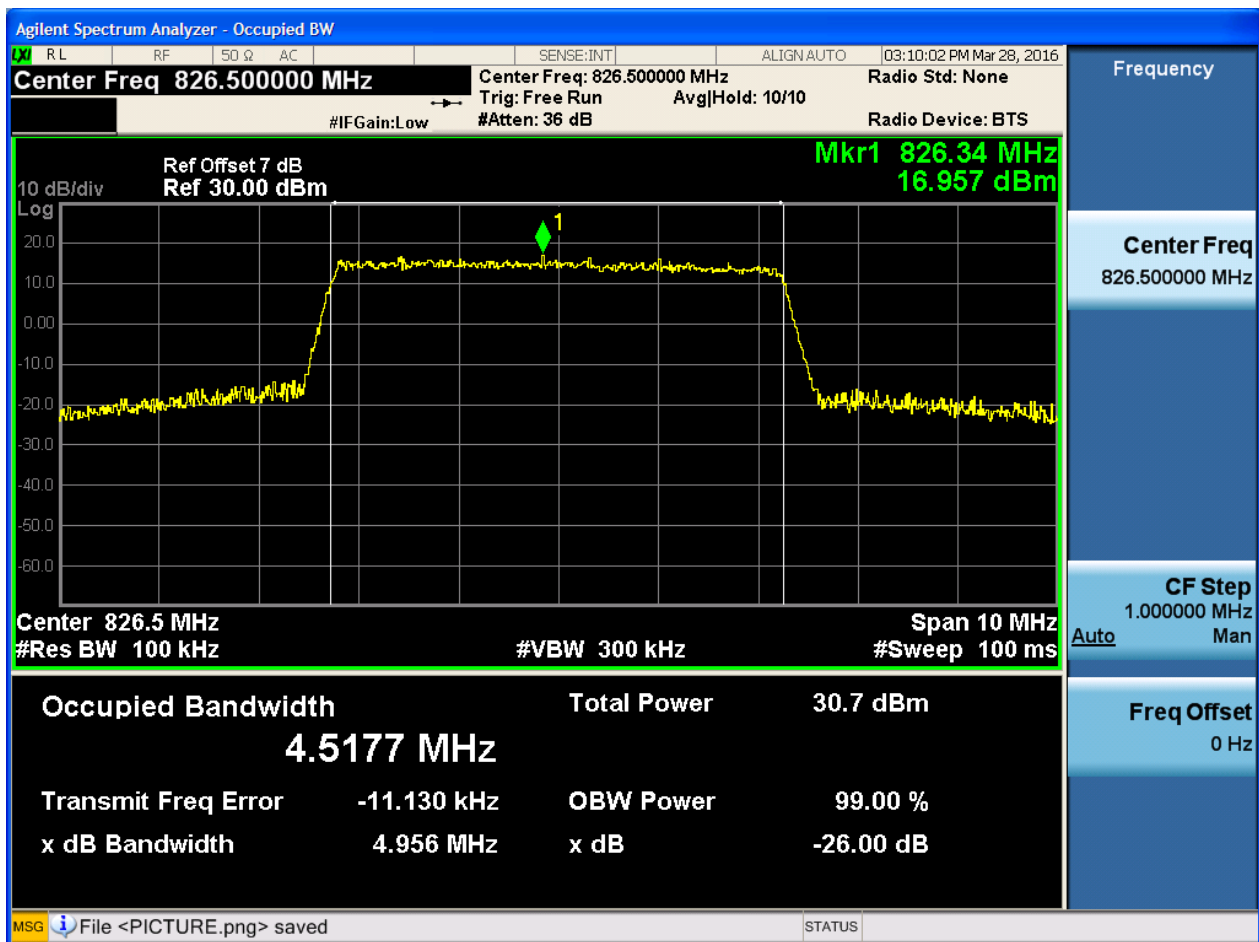




4.1.1.2.3 Test Bandwidth = 5

4.1.1.2.3.1 Test Channel = LCH

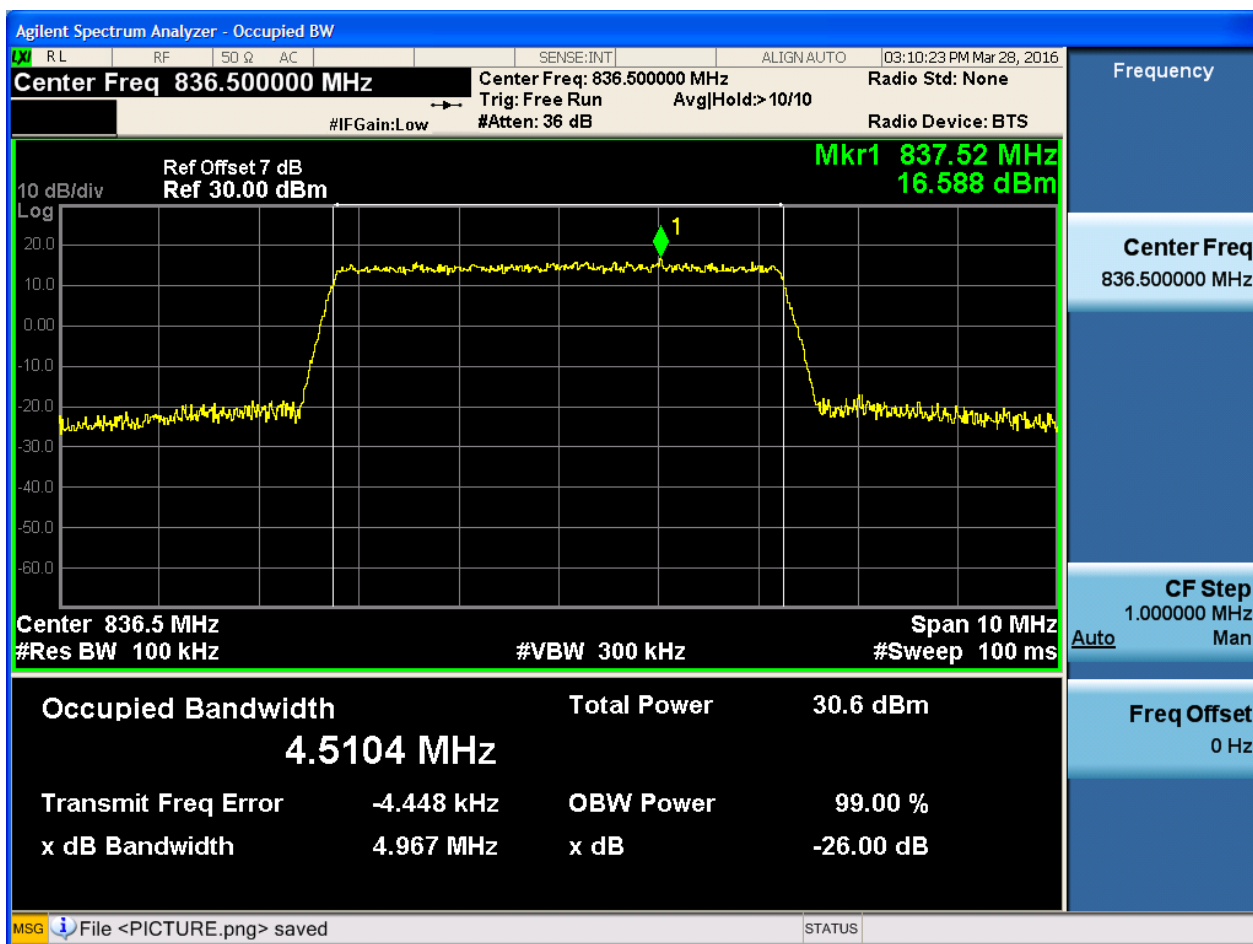
4.1.1.2.3.1.1 Test RB = RB25#0





4.1.1.2.3.2 Test Channel = MCH

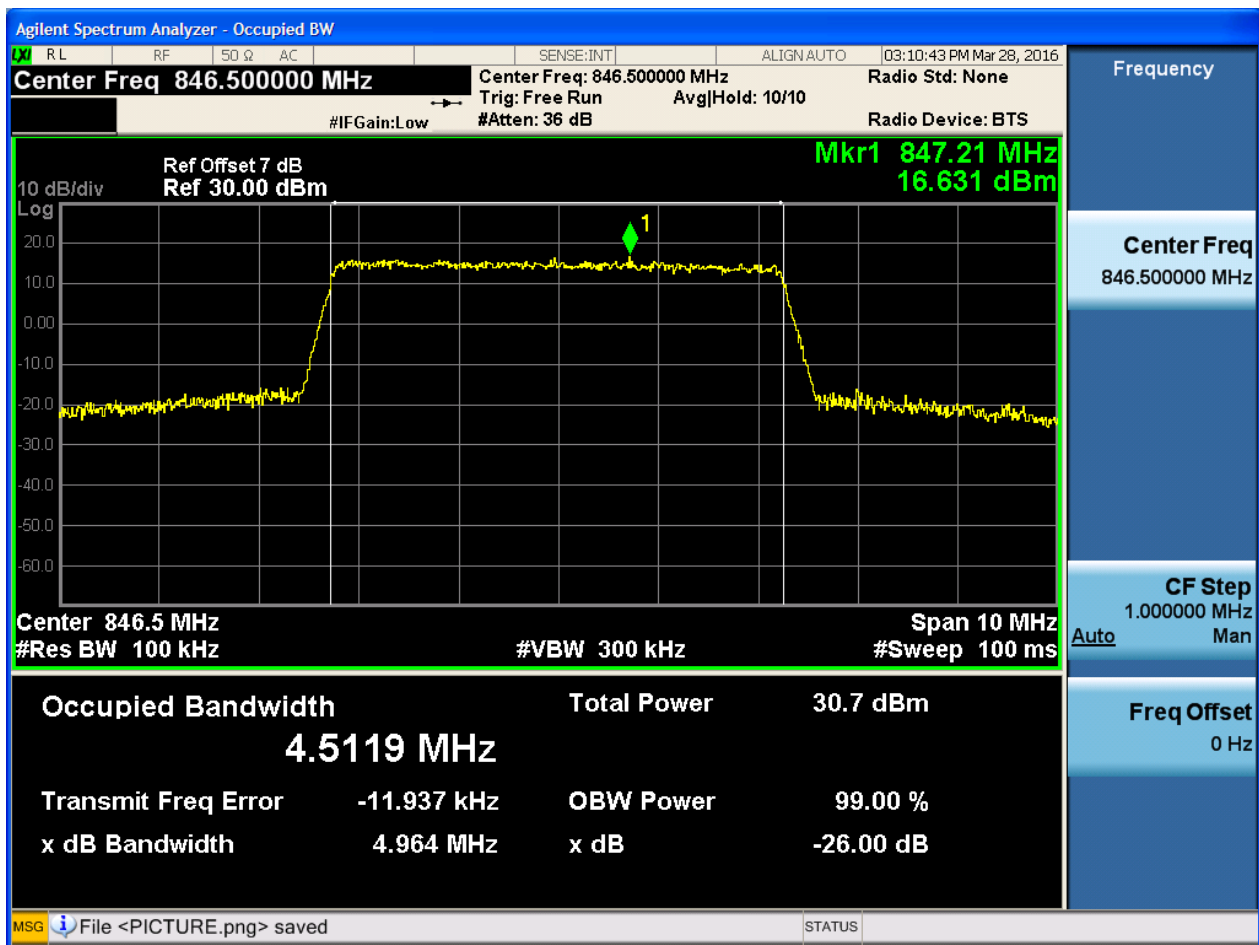
4.1.1.2.3.2.1 Test RB = RB25#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0

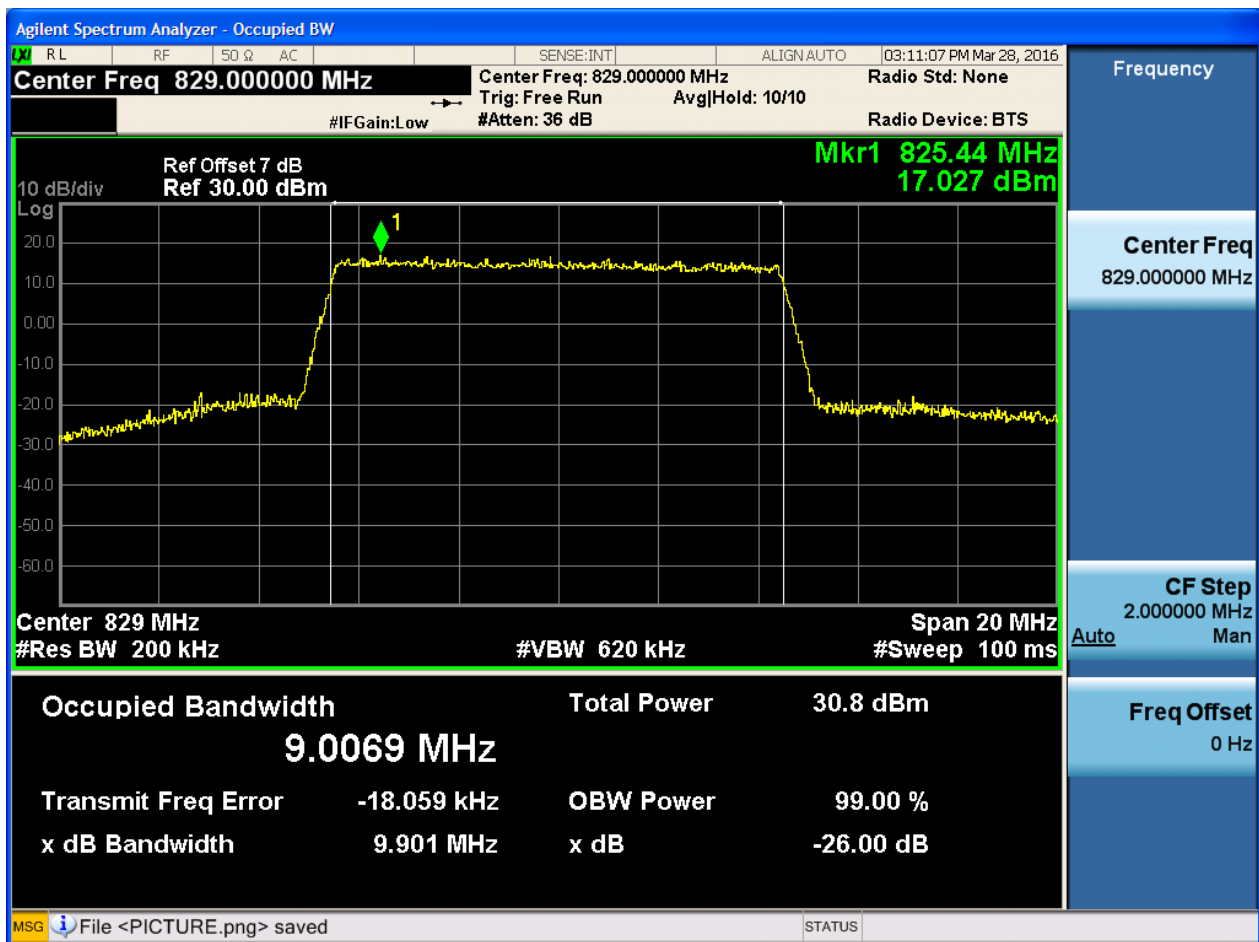




4.1.1.2.4 Test Bandwidth = 10

4.1.1.2.4.1 Test Channel = LCH

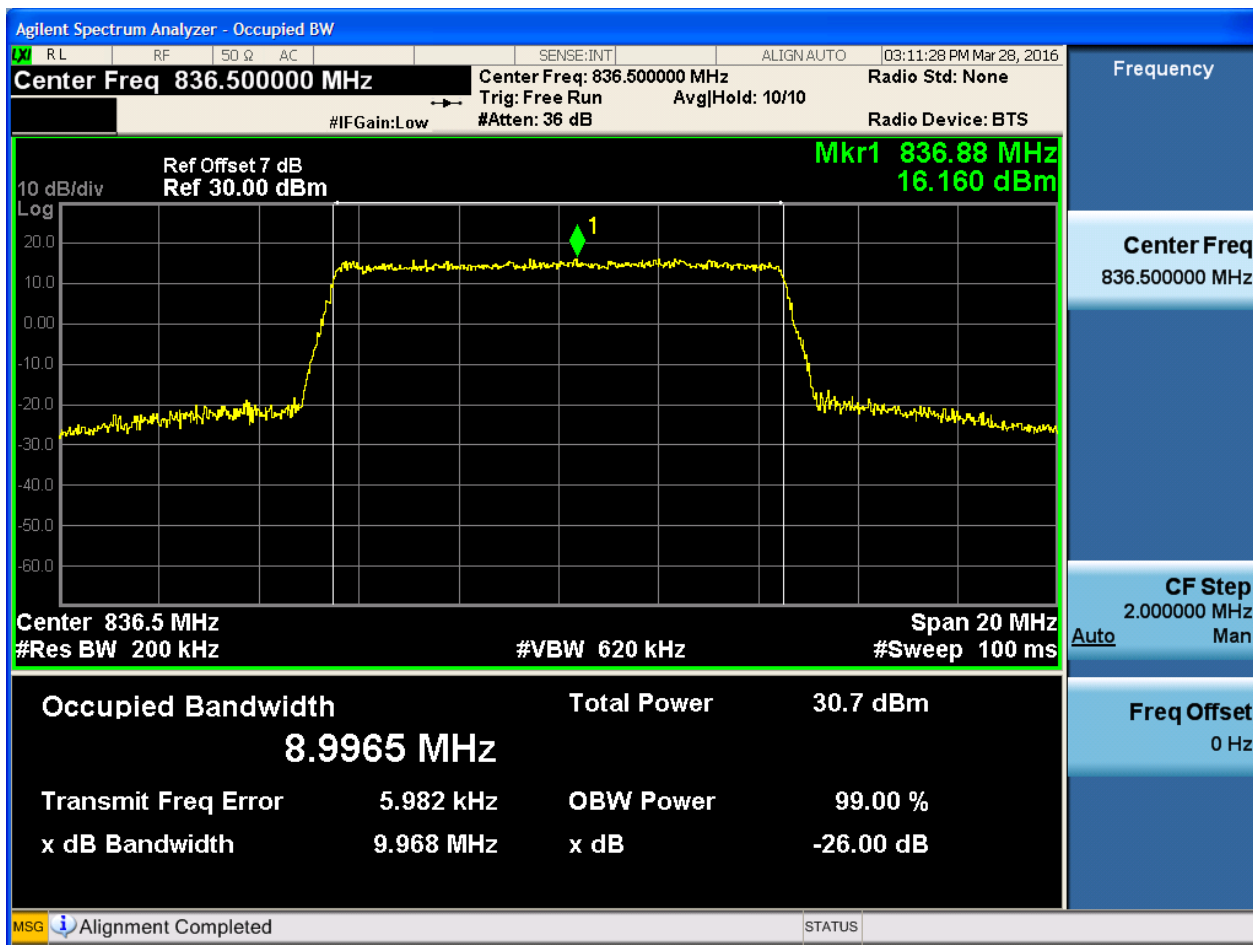
4.1.1.2.4.1.1 Test RB = RB50#0





4.1.1.2.4.2 Test Channel = MCH

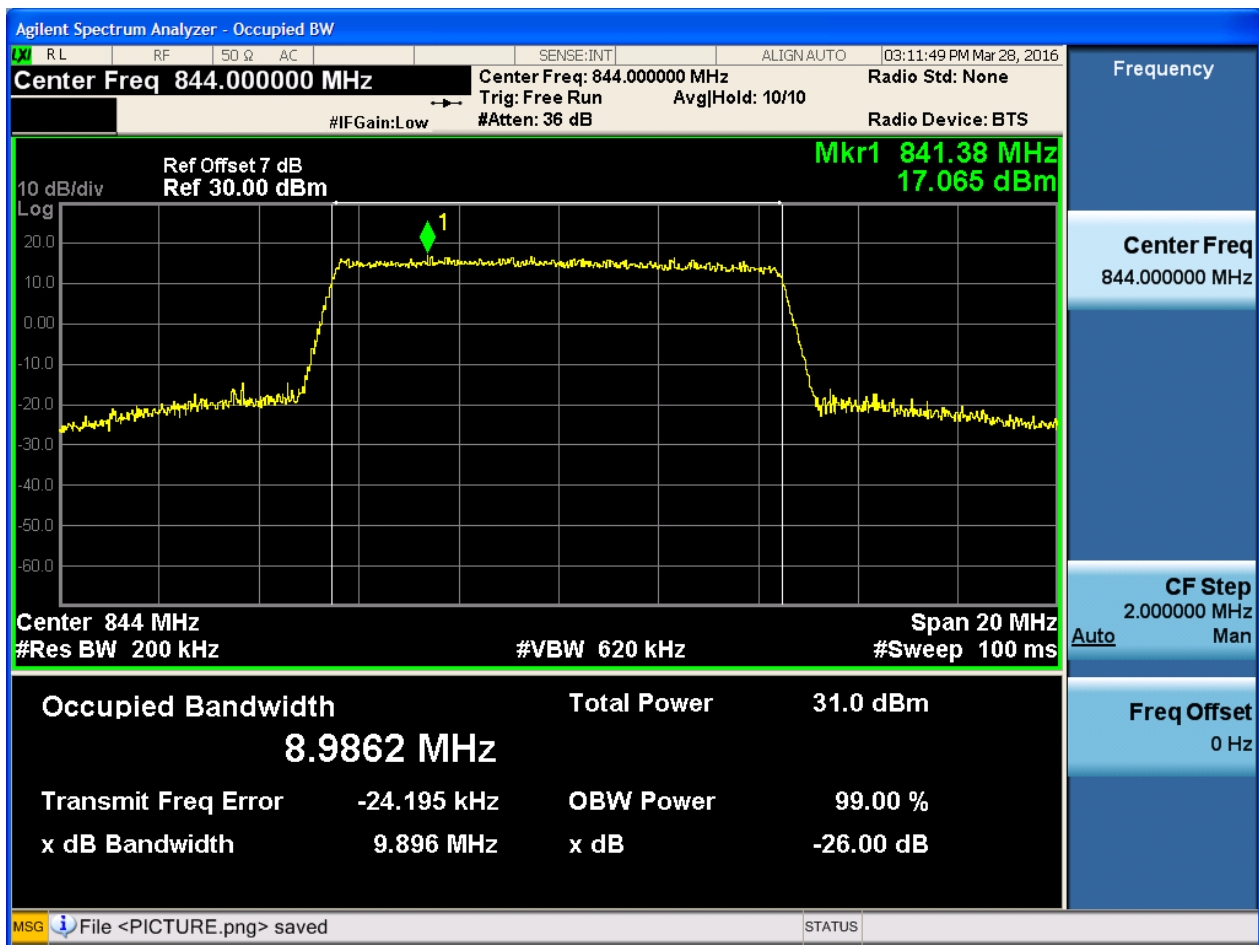
4.1.1.2.4.2.1 Test RB = RB50#0





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

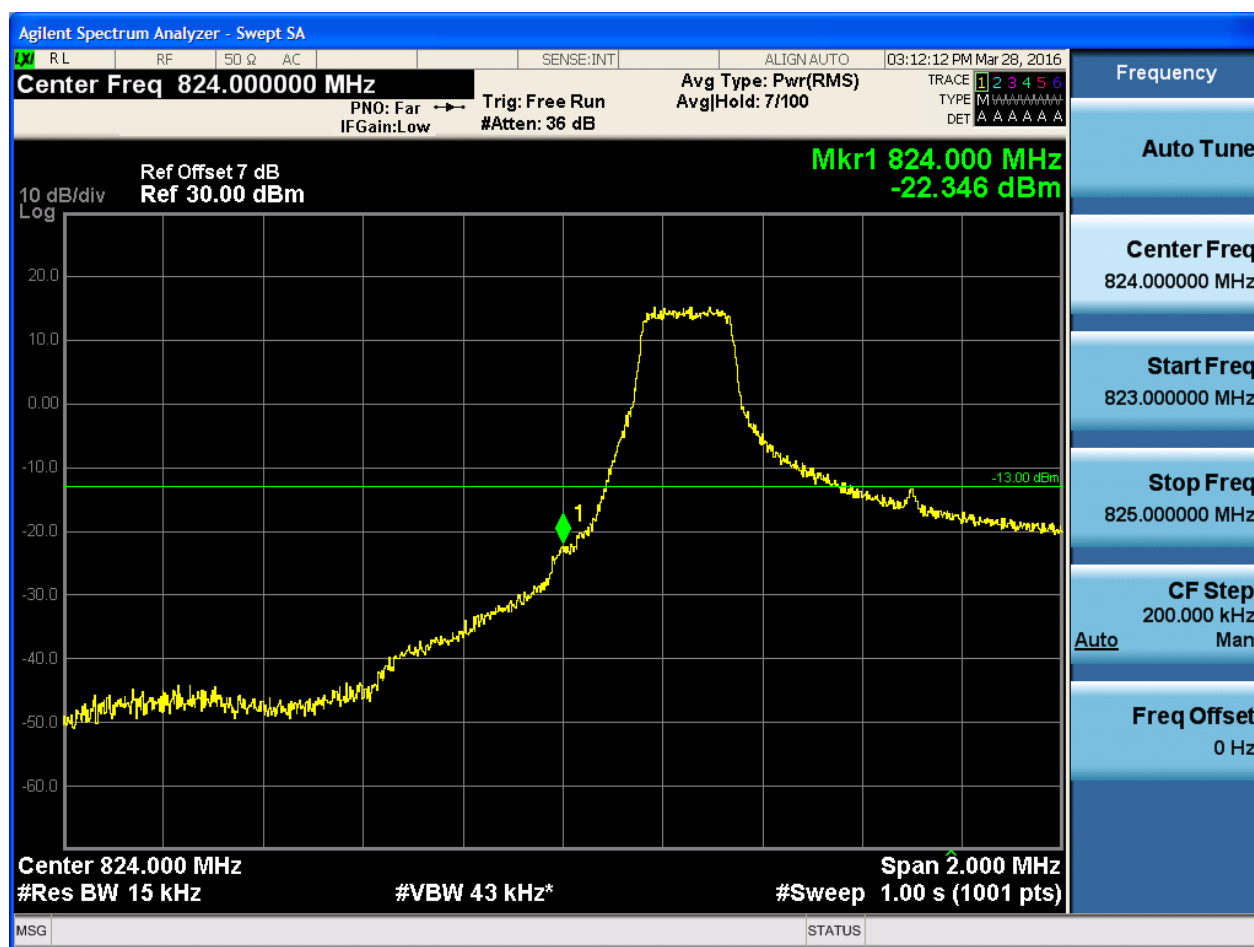
5.1.1 Test Band = BAND5

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



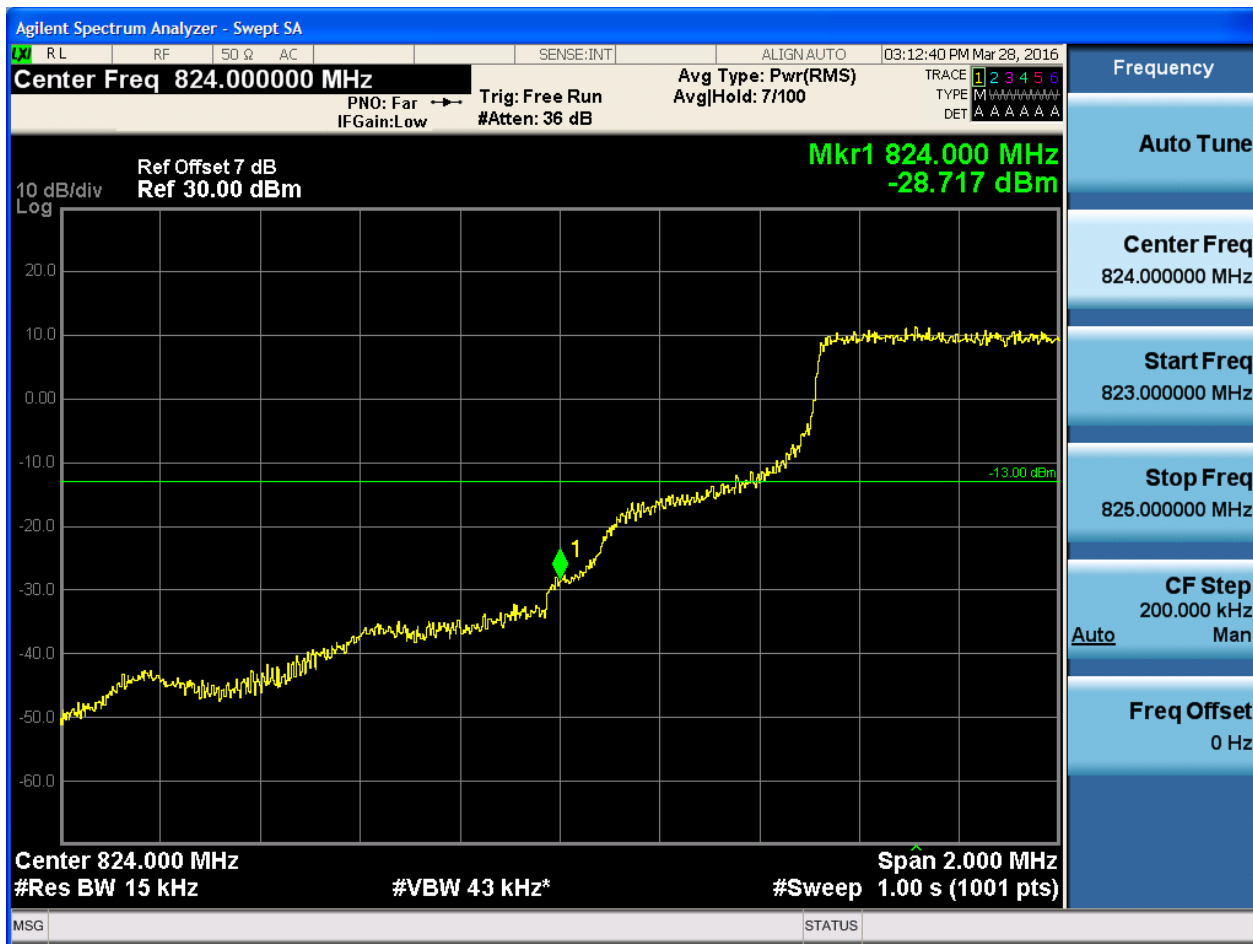


5.1.1.1.1.2 Test RB = RB1#5



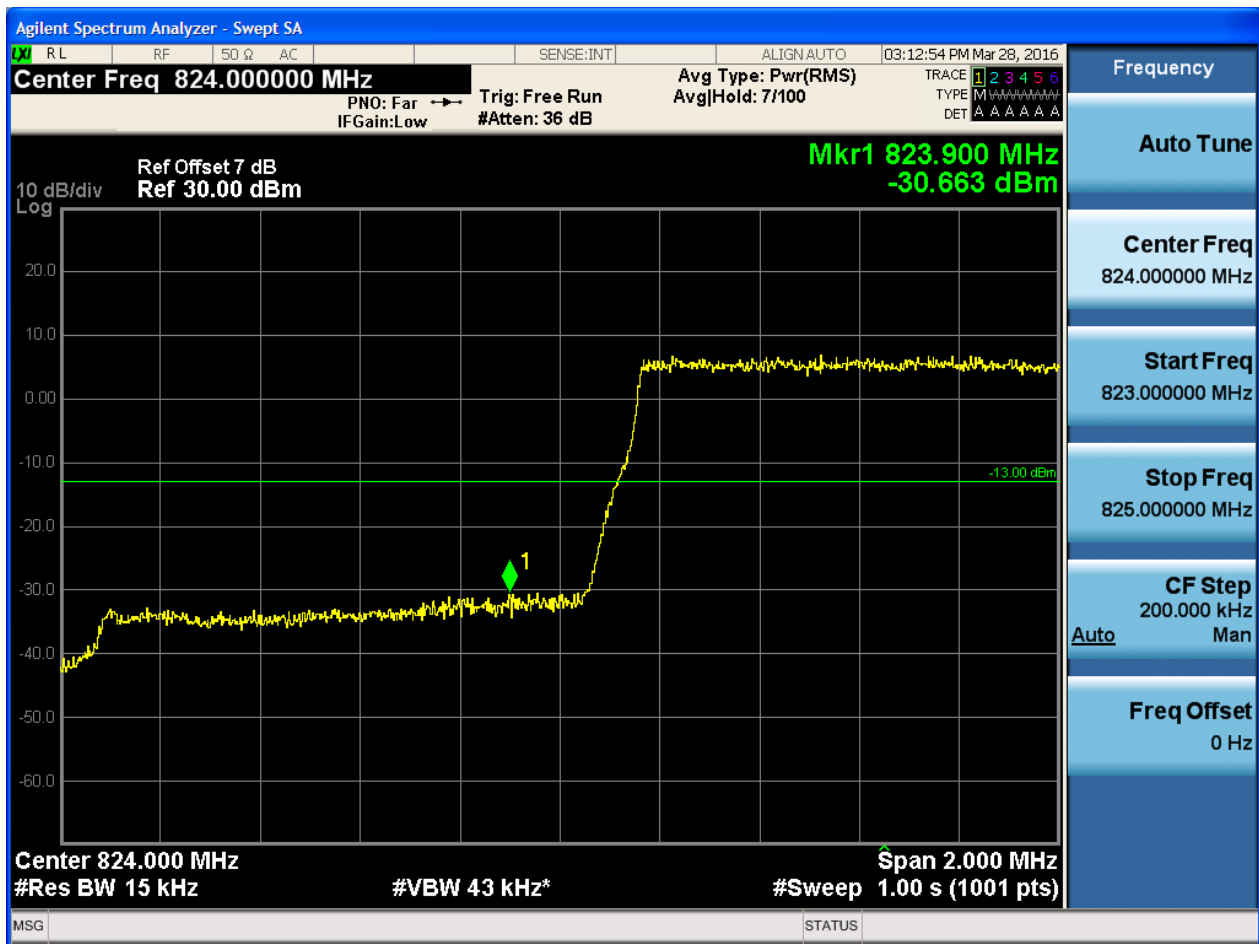


5.1.1.1.1.3 Test RB = RB3#2





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





5.1.1.1.2.2 Test RB = RB1#5





5.1.1.1.2.3 Test RB = RB3#2





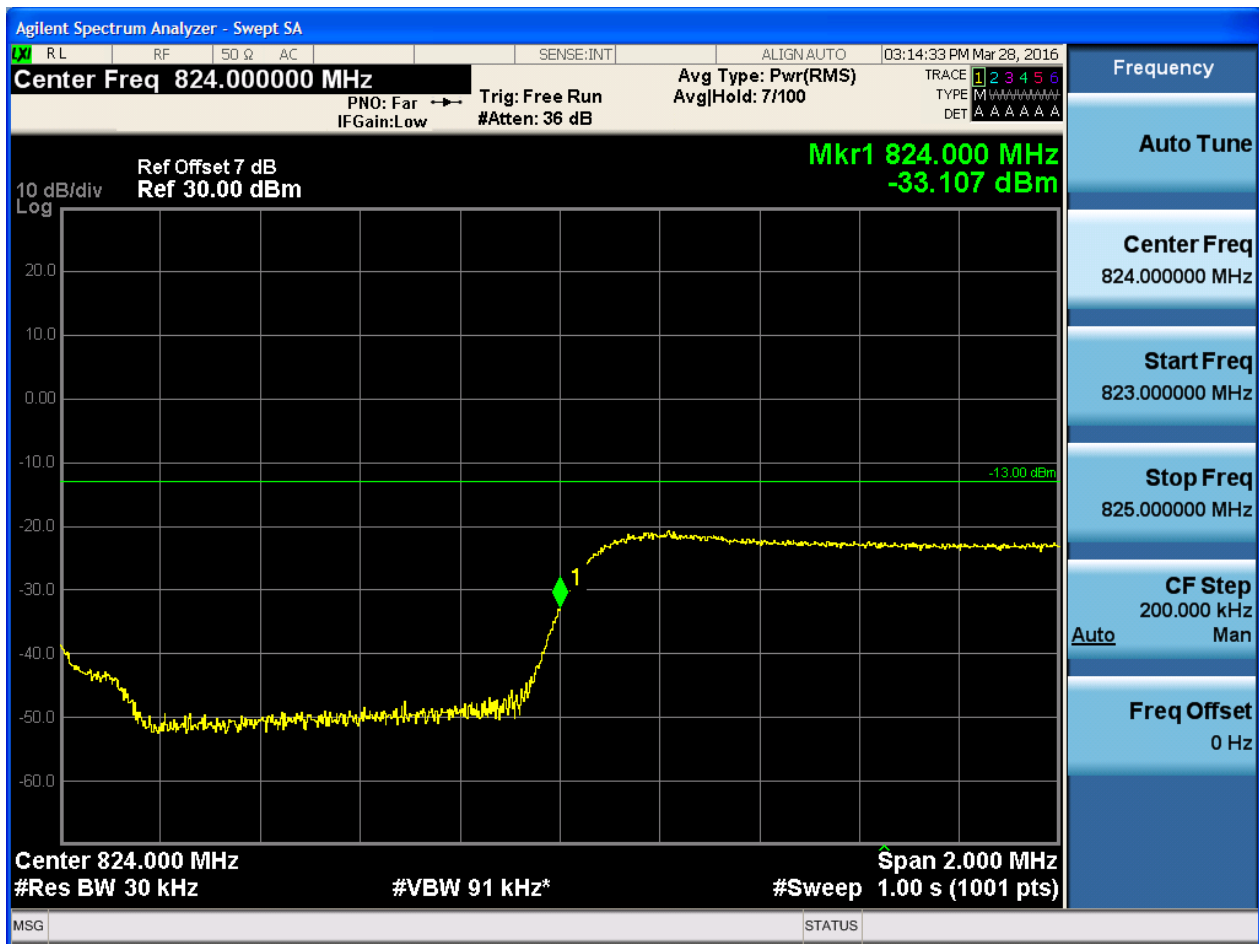
5.1.1.1.2.4 Test RB = RB6#0







5.1.1.1.2.1.2 Test RB = RB1#14





5.1.1.1.2.1.3 Test RB = RB8#4





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 30 kHz

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

MSG

STATUS

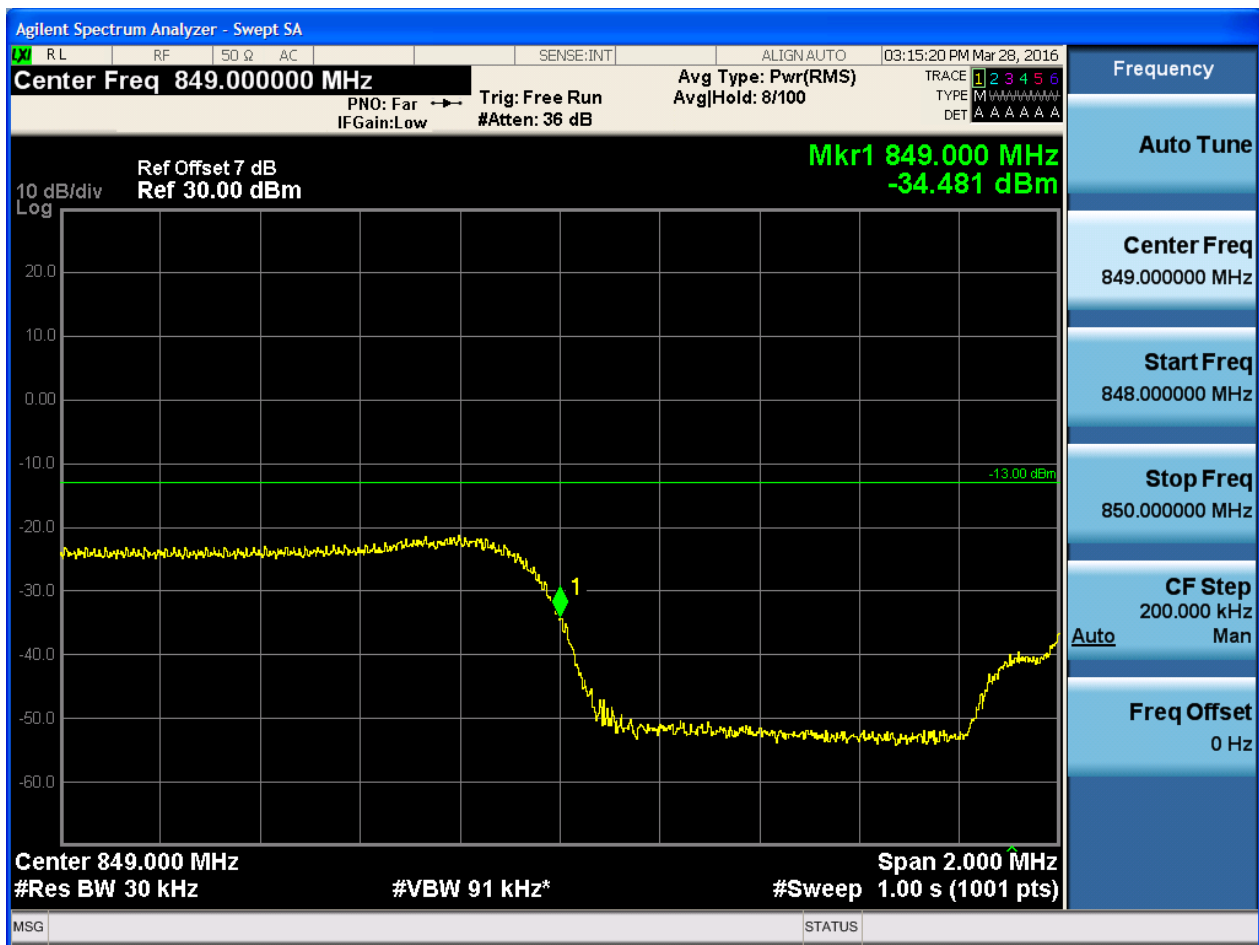
The screenshot displays a spectrum analyzer interface with a central plot area. The plot shows a signal that is flat at approximately -35 dBm from 823 MHz to 824 MHz, then rises sharply to about -13 dBm by 825 MHz. A green horizontal line is drawn at -13.00 dBm. The top of the screen shows the center frequency set to 824.000000 MHz. The right side has a vertical panel with various settings like 'Auto Tune', 'Center Freq', 'Start Freq', 'Stop Freq', 'CF Step', and 'Freq Offset'. The bottom of the screen has a status bar with 'MSG' and 'STATUS' indicators.

Parameter	Value
Center Freq	824.000000 MHz
Ref Offset	7 dB
Ref	30.00 dBm
10 dB/div	Log
Center	824.000 MHz
#Res BW	30 kHz
Span	2.000 MHz
#Sweep	1.00 s (1001 pts)
Auto Tune	
Center Freq	824.000000 MHz
Start Freq	823.000000 MHz
Stop Freq	825.000000 MHz
CF Step	200.000 kHz
Man	
Freq Offset	0 Hz
MSG	
STATUS	



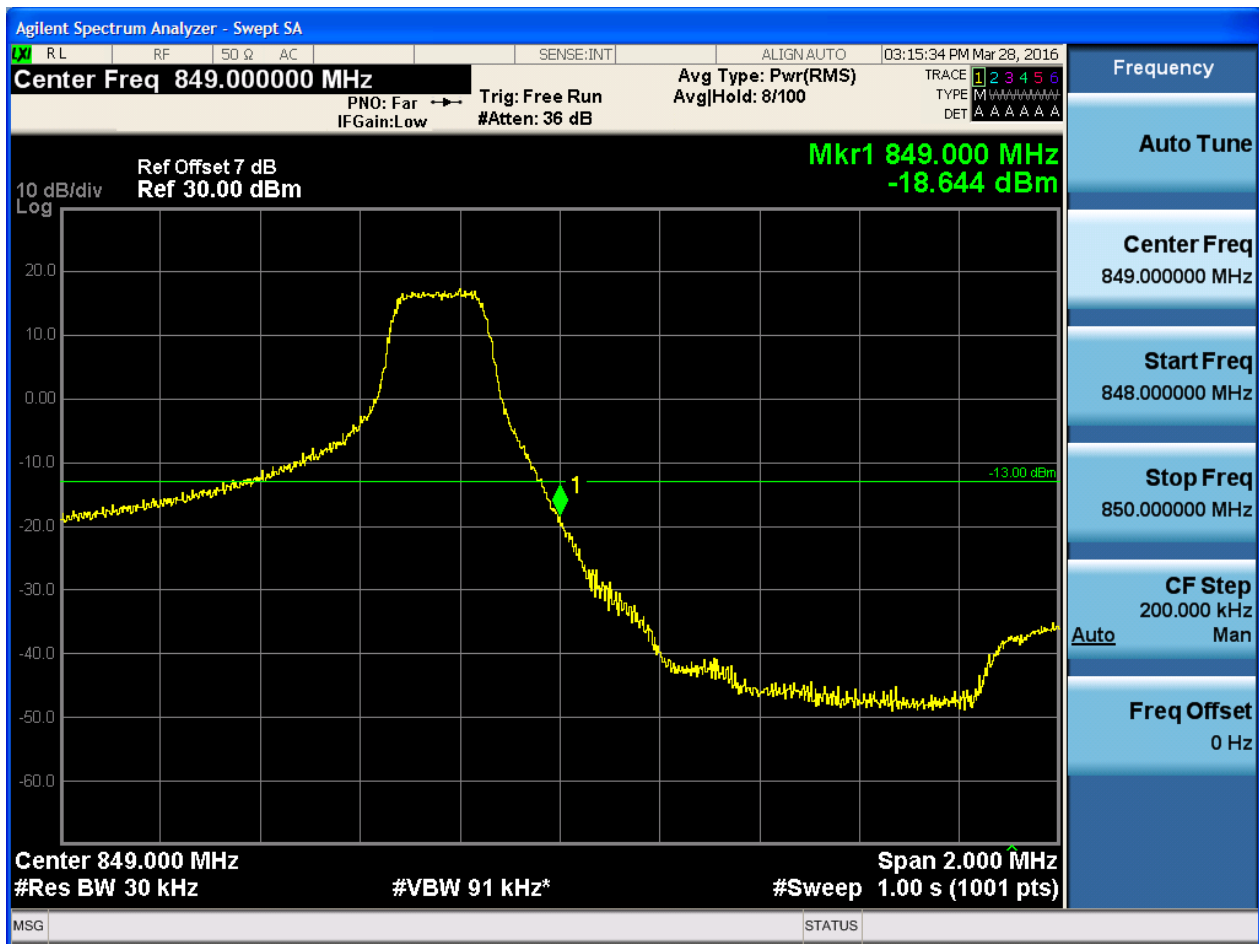
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#14





5.1.1.1.2.2.3 Test RB = RB8#4





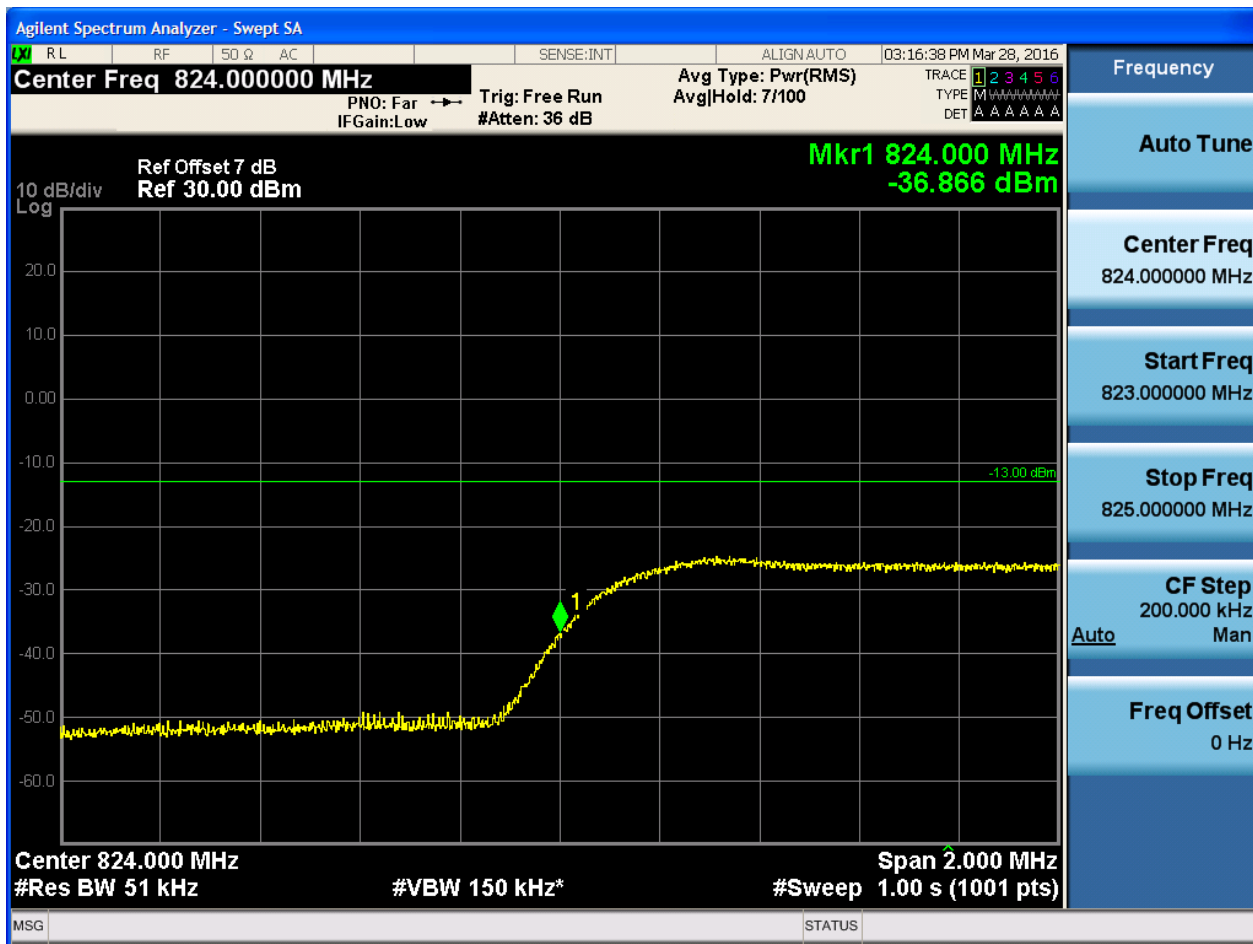
5.1.1.1.2.2.4 Test RB = RB15#0





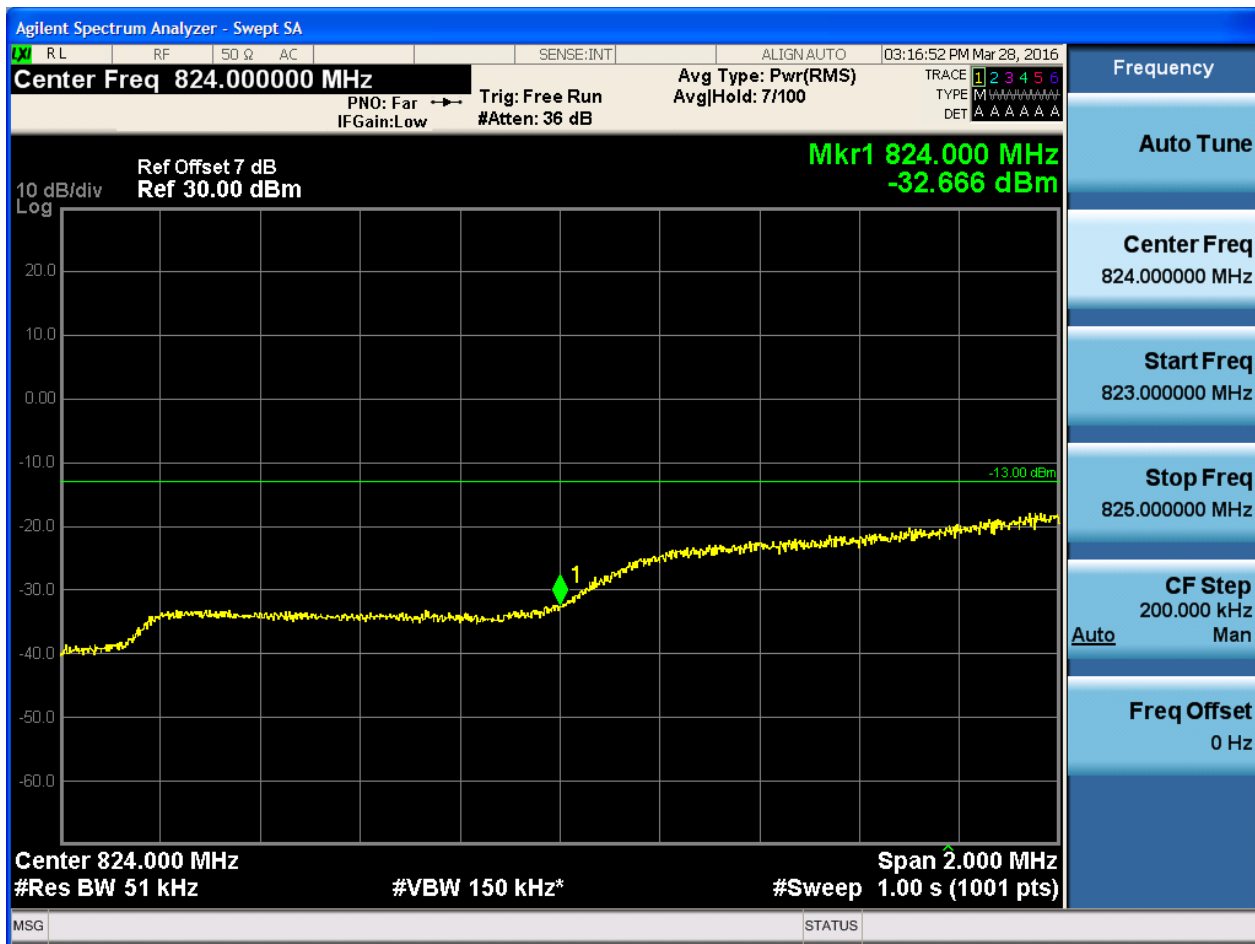


5.1.1.1.3.1.2 Test RB = RB1#24



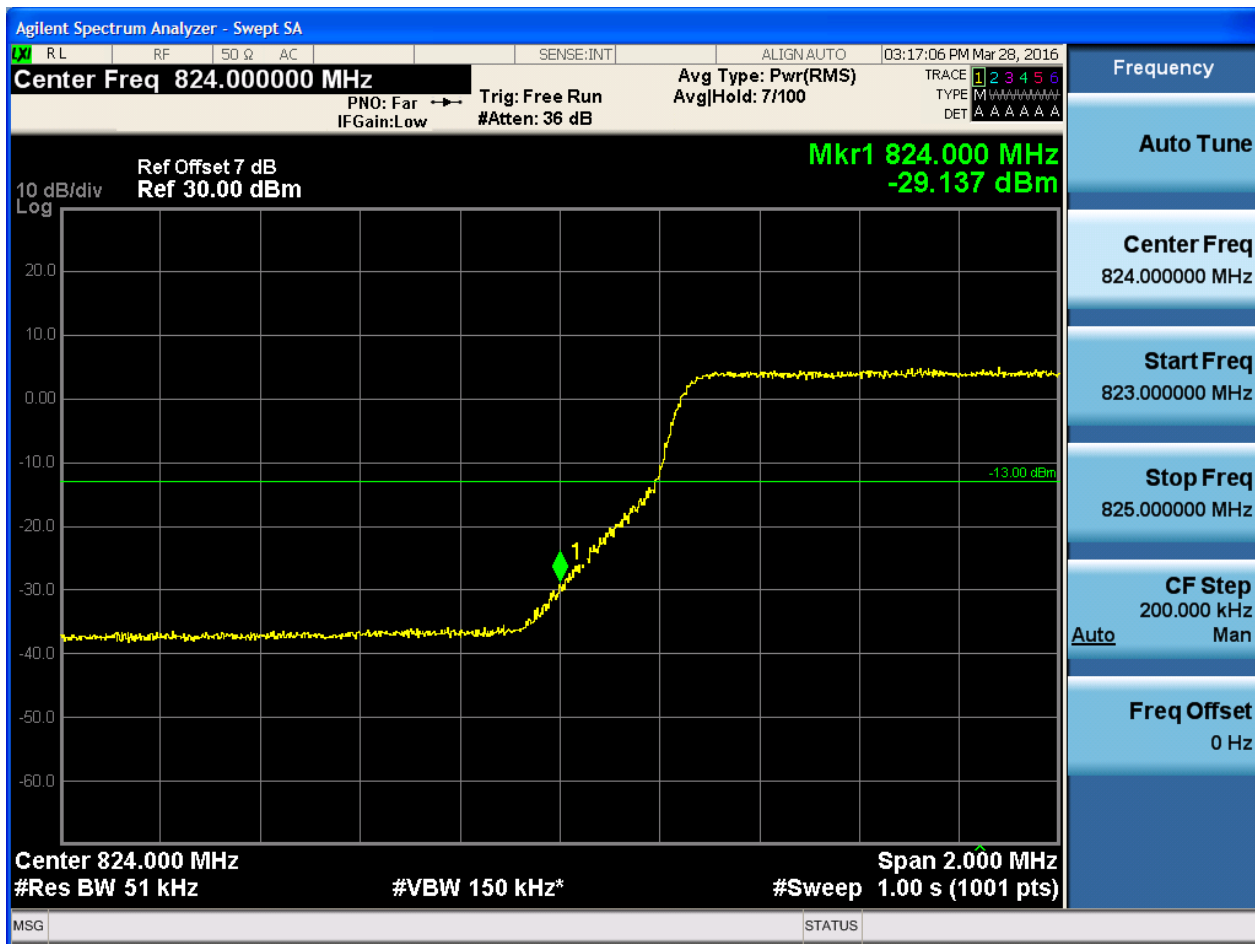


5.1.1.1.3.1.3 Test RB = RB12#6





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





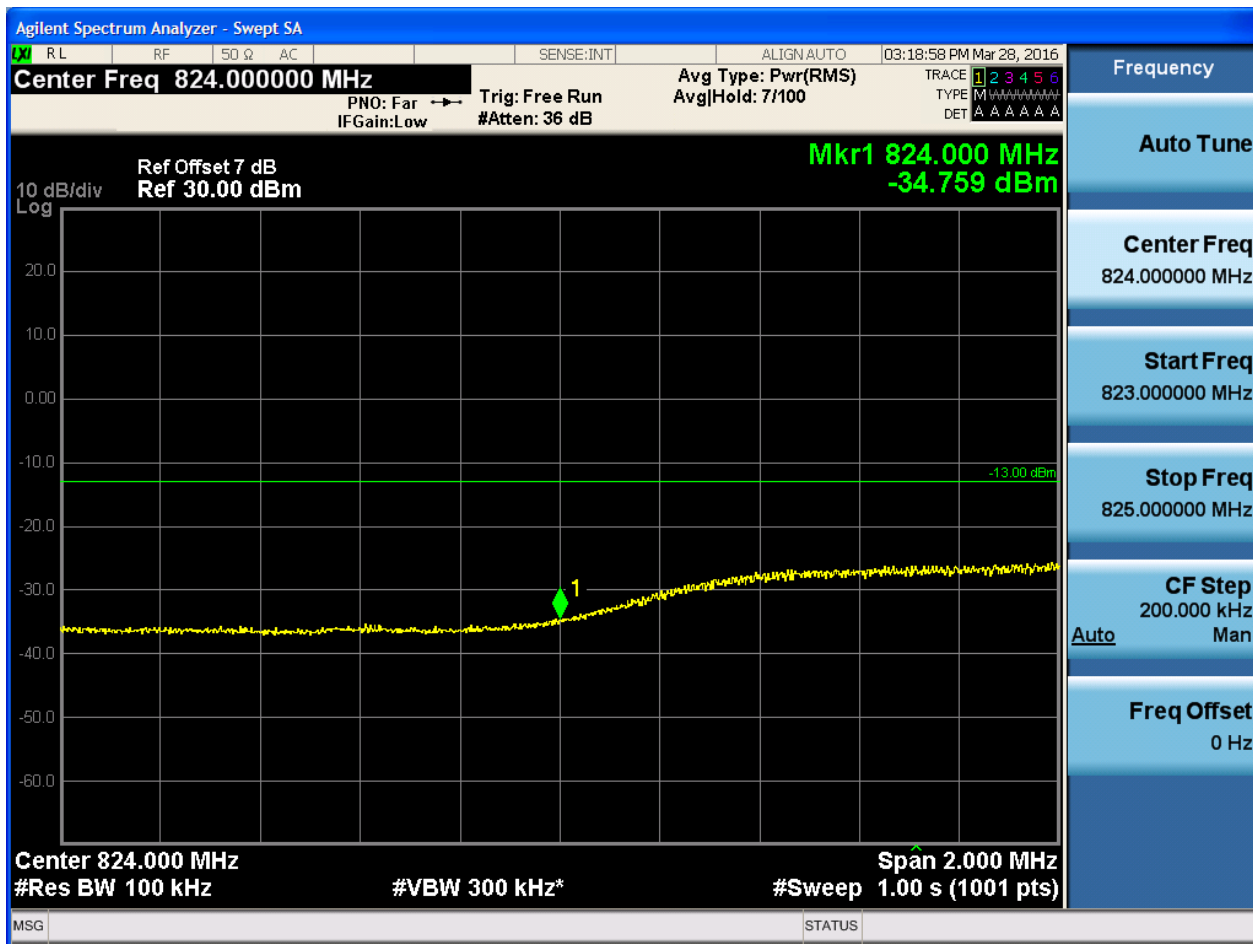


5.1.1.1.4.1.2 Test RB = RB1#49



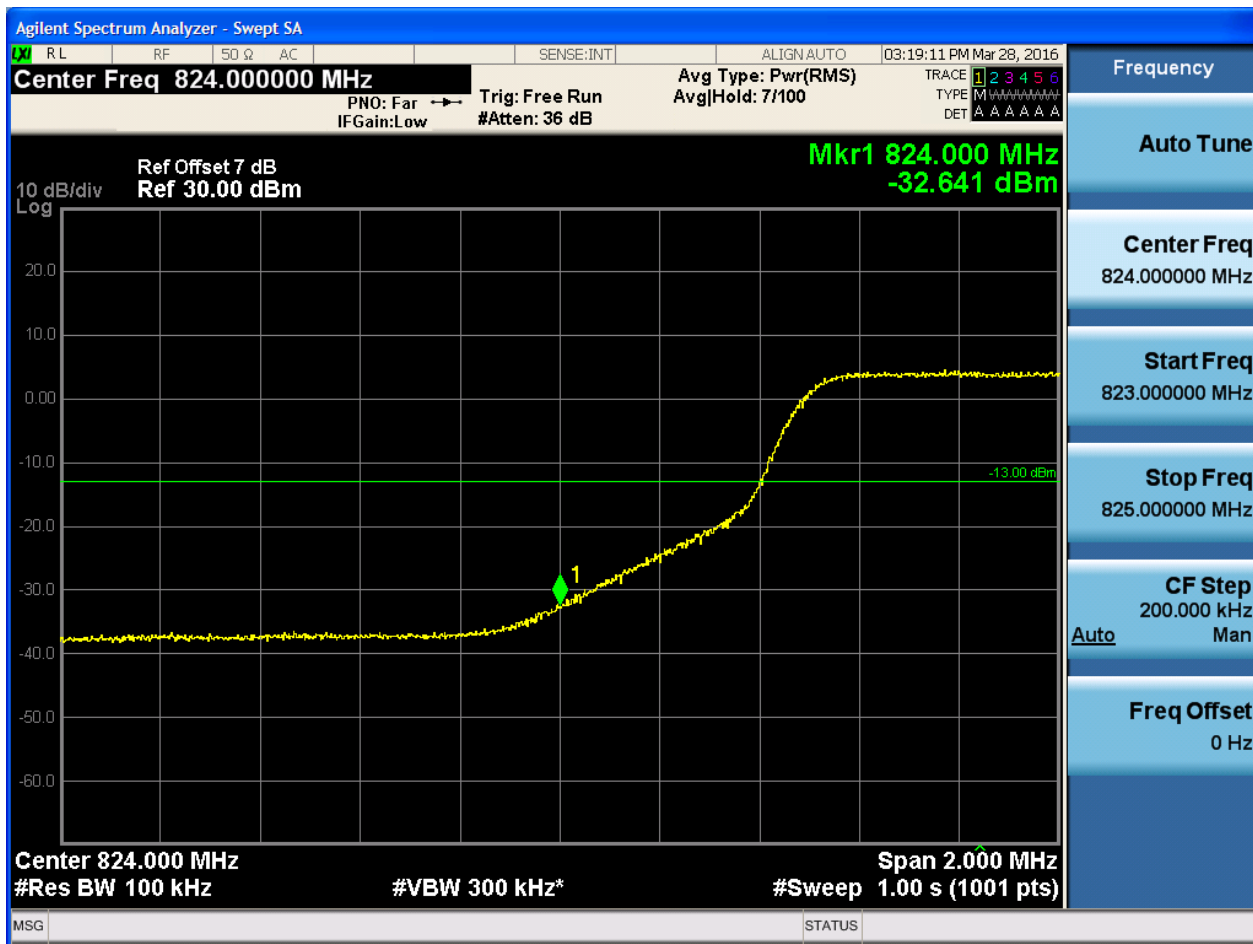


5.1.1.1.4.1.3 Test RB = RB25#13





5.1.1.1.4.1.4 Test RB = RB50#0





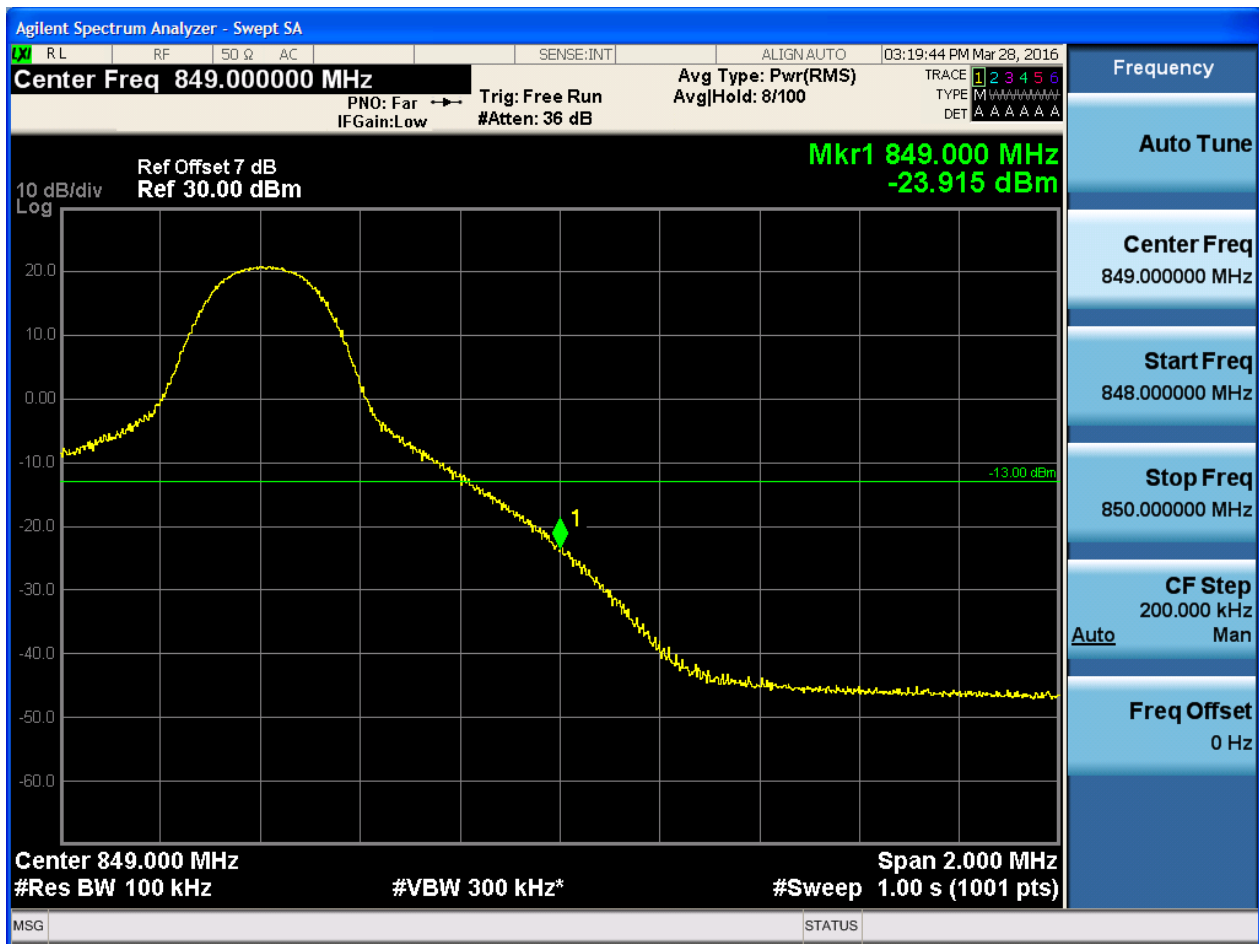
5.1.1.1.4.2 Test Channel = HCH

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



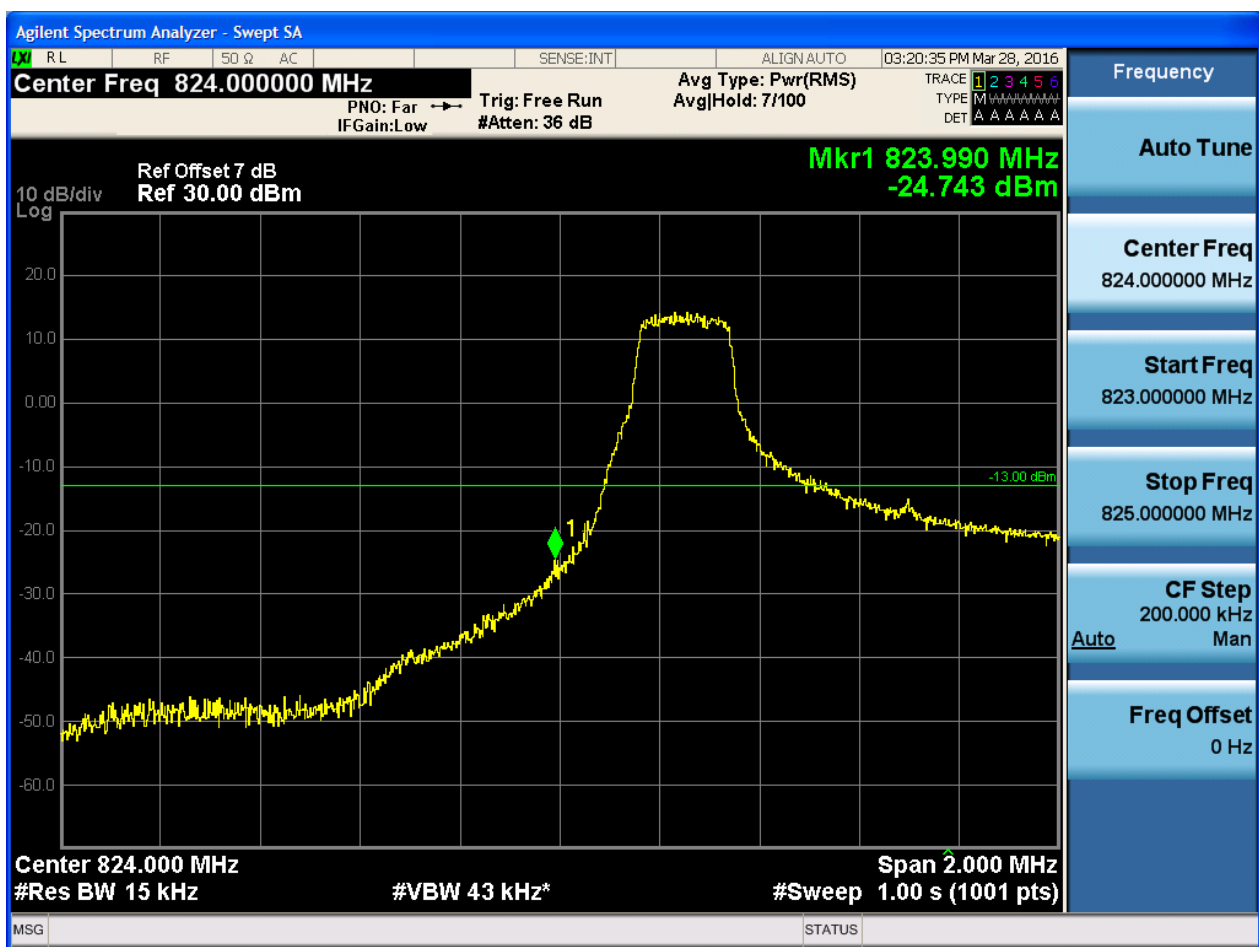


5.1.1.2 Test Mode = LTE/TM2

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



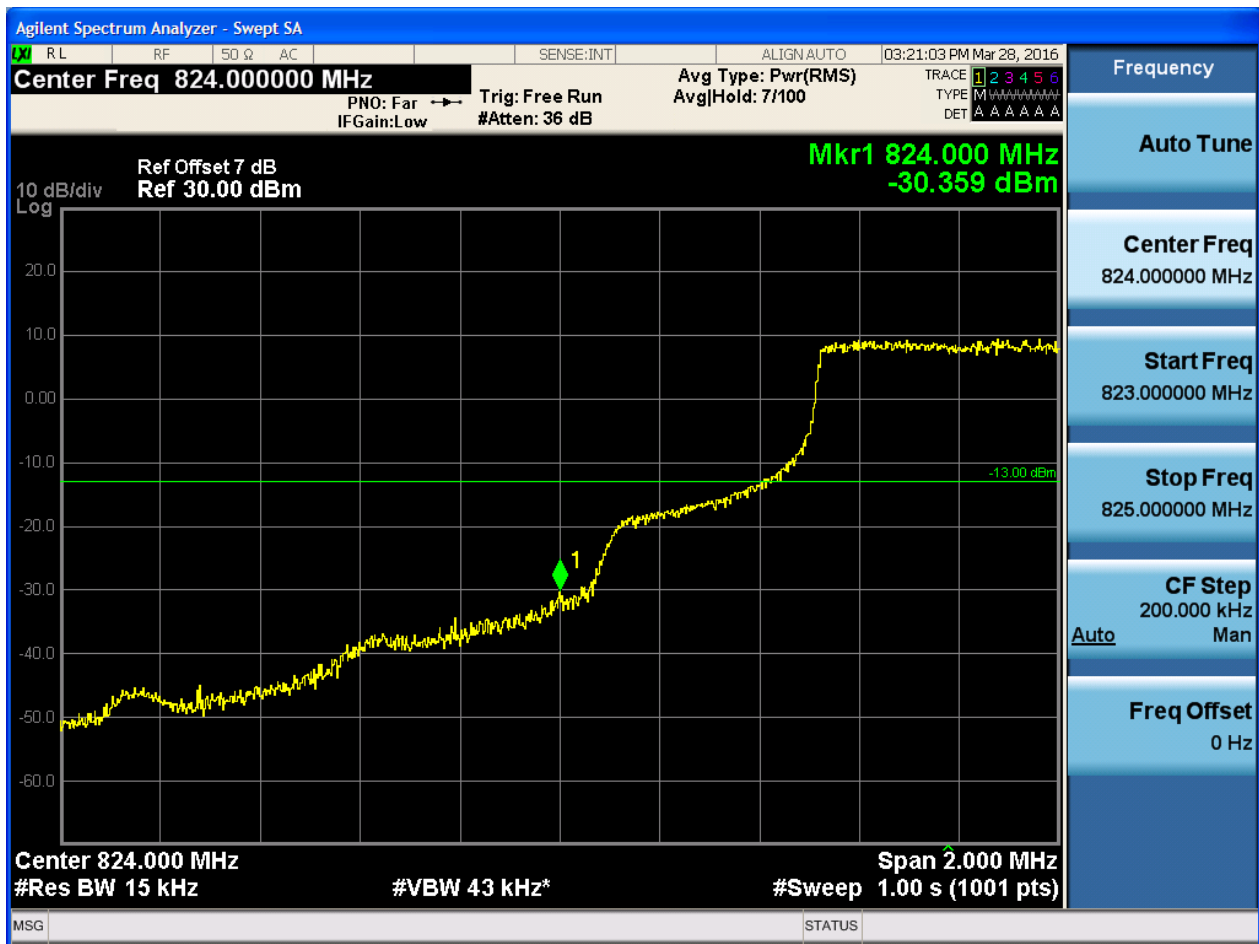


5.1.1.2.1.1.2 Test RB = RB1#5



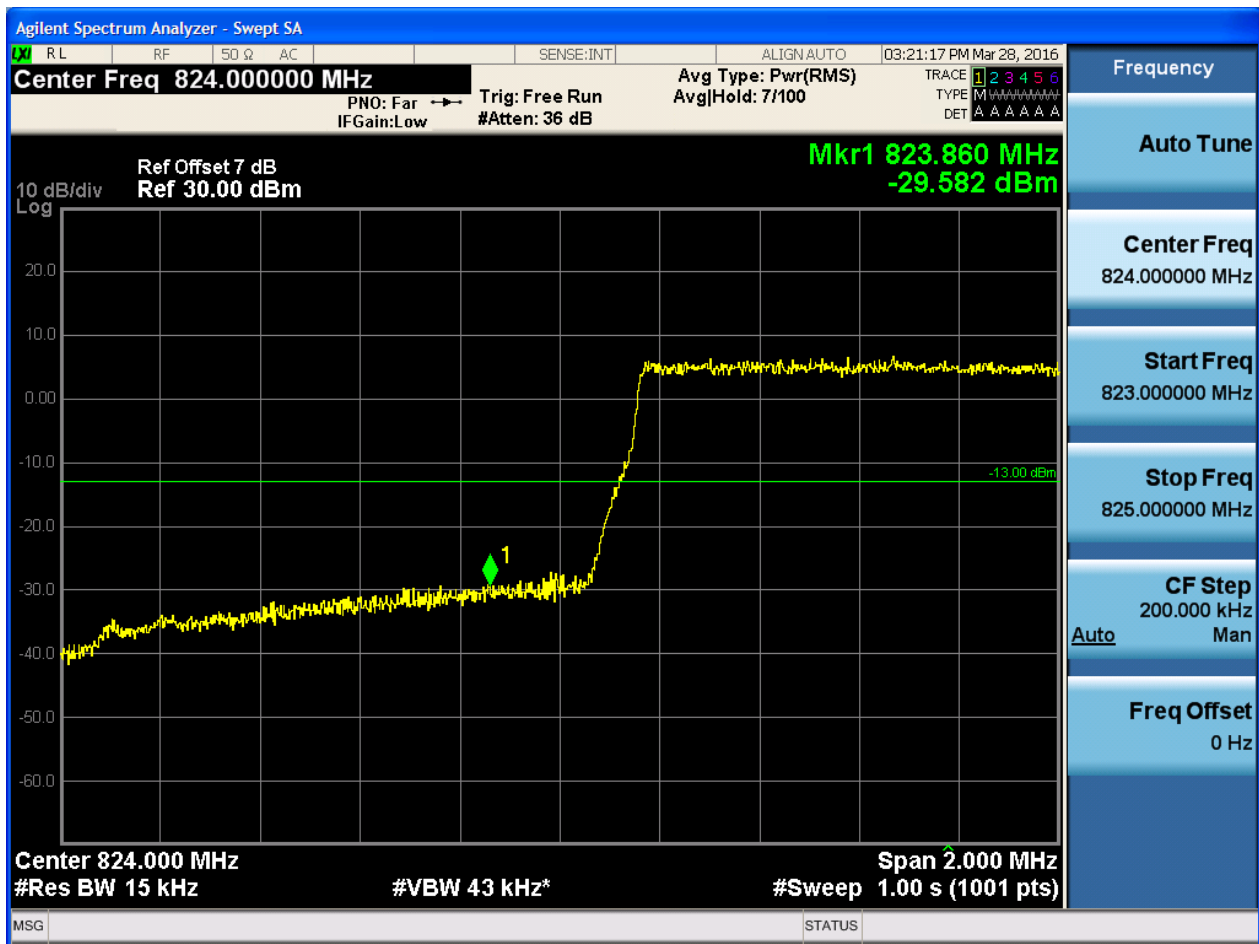


5.1.1.2.1.1.3 Test RB = RB3#2



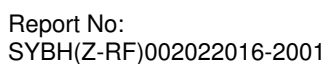


5.1.1.2.1.1.4 Test RB = RB6#0



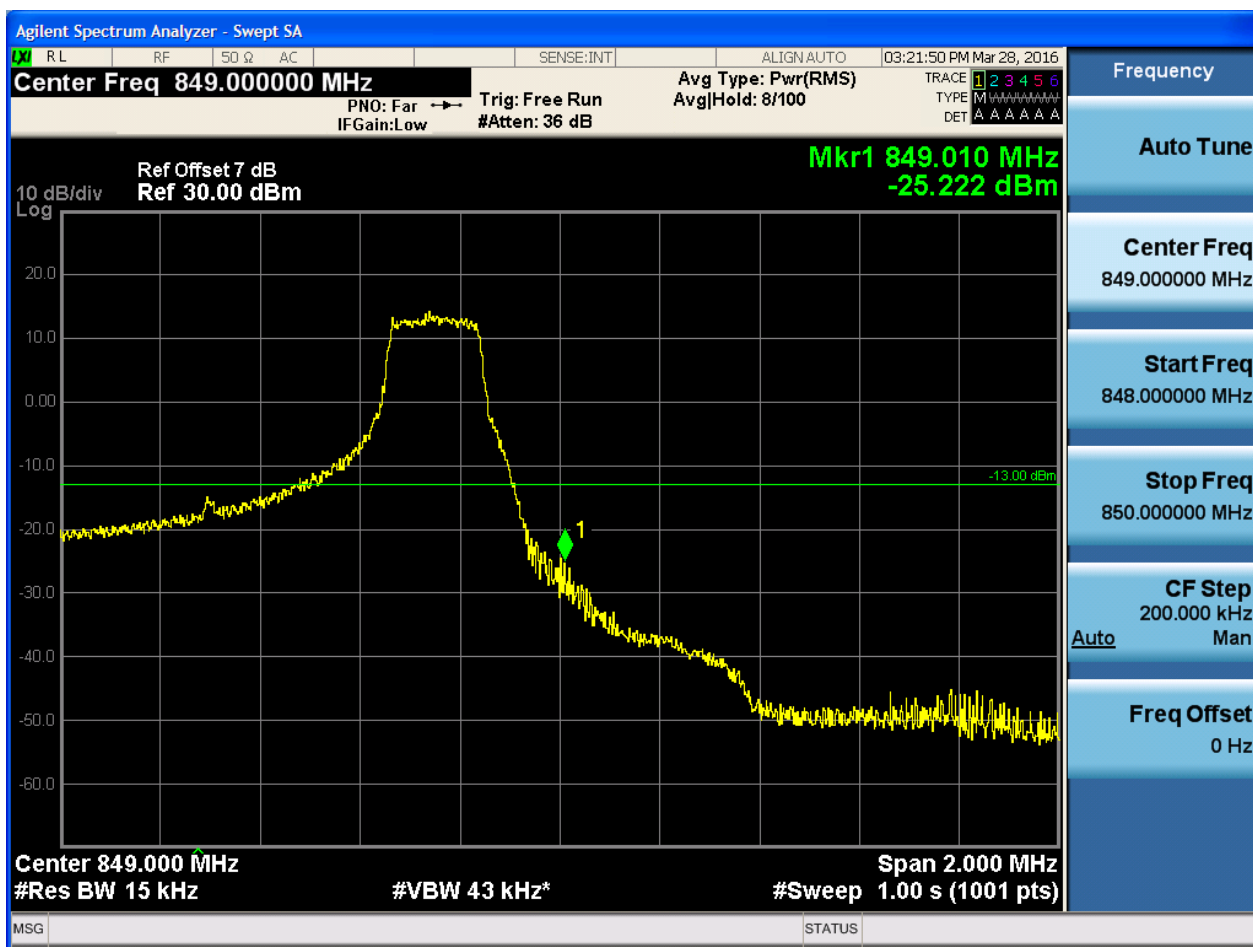


5.1.1.2.1.2.1 Test RB = RB1#0





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 03:22:04 PM Mar 28, 2016

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

Ref Offset 7 dB Mkr1 849.000 MHz
Ref 30.00 dBm -29.895 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



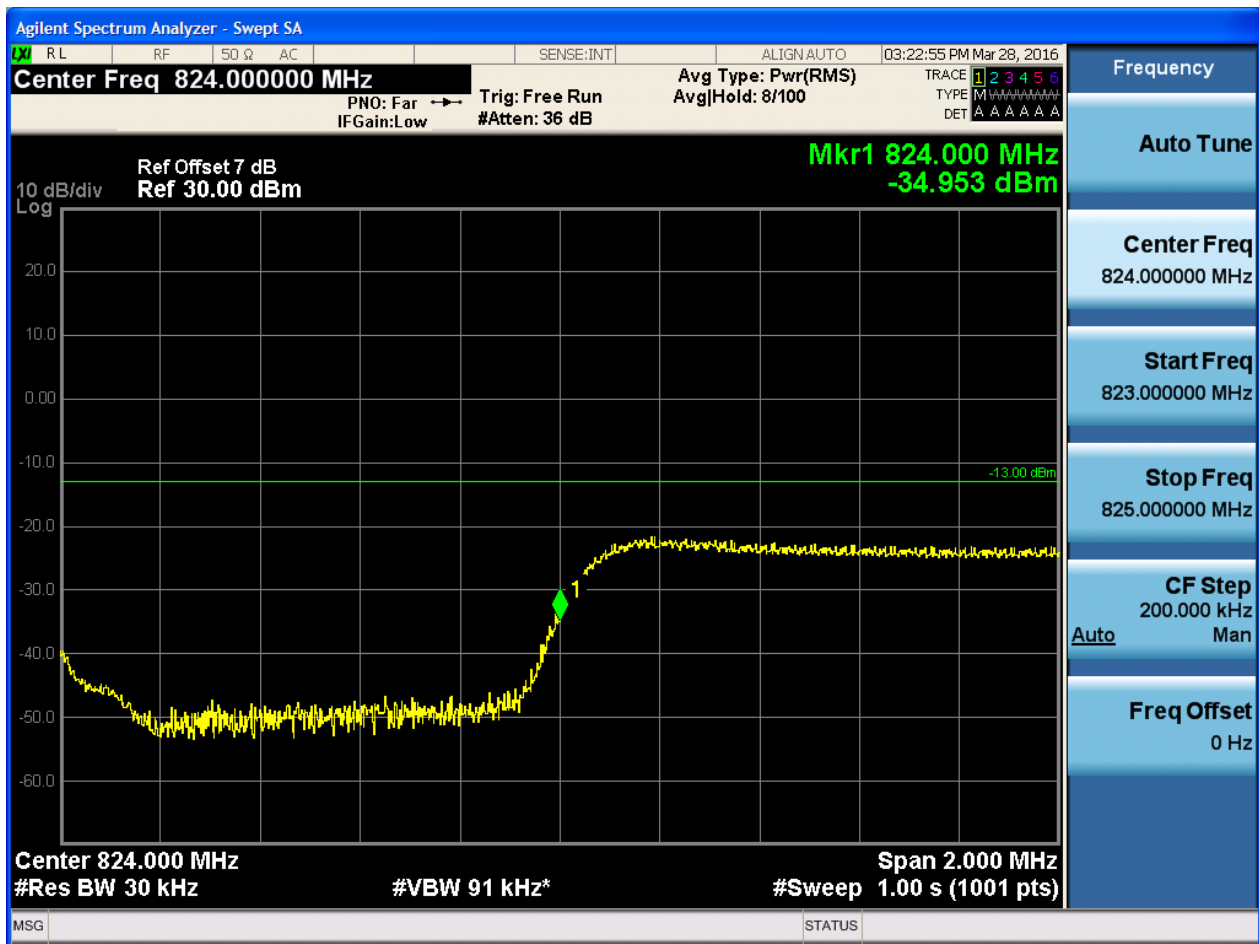
5.1.1.2.1.2.4 Test RB = RB6#0





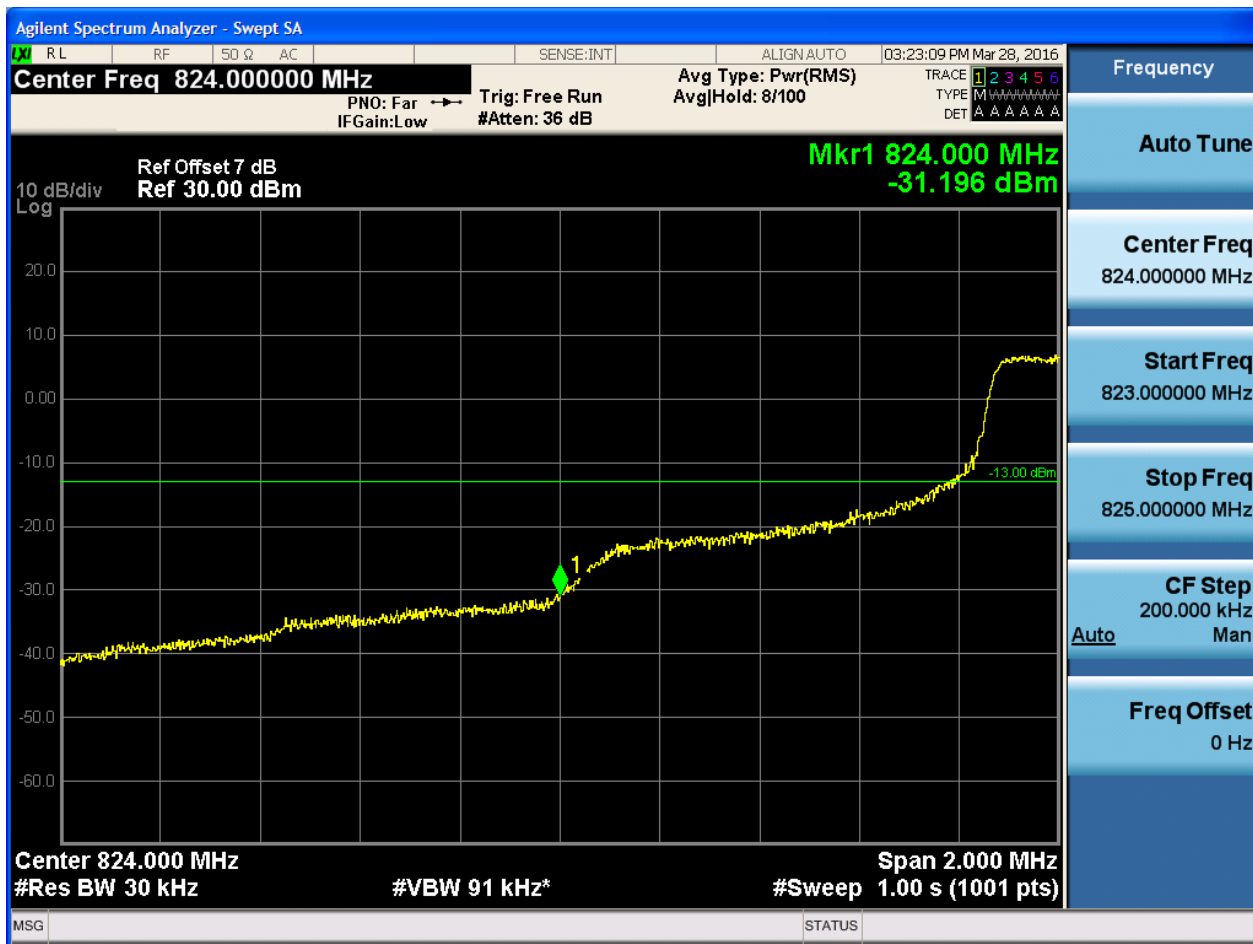


5.1.1.2.2.1.2 Test RB = RB1#14



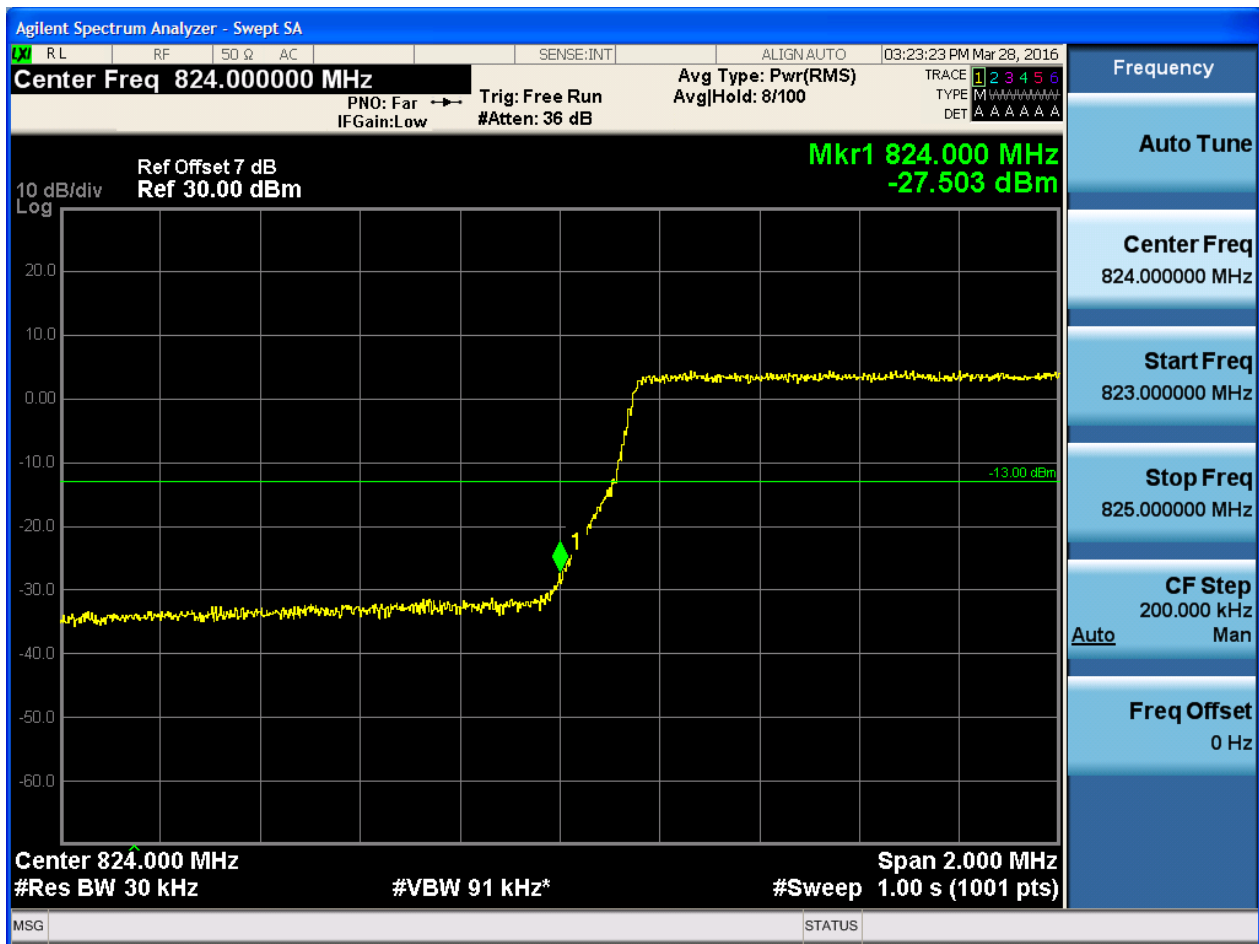


5.1.1.2.2.1.3 Test RB = RB8#4





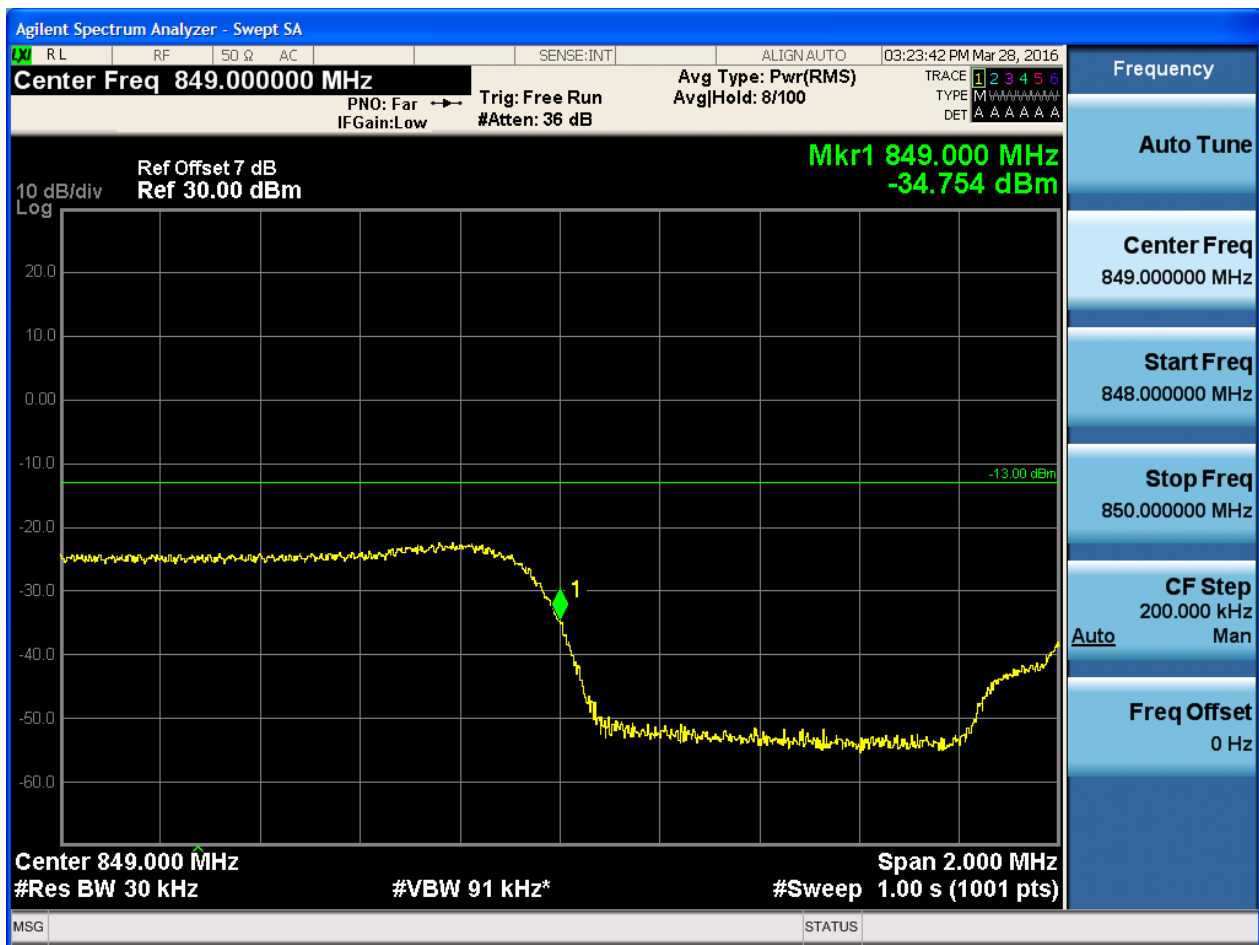
5.1.1.2.2.1.4 Test RB = RB15#0





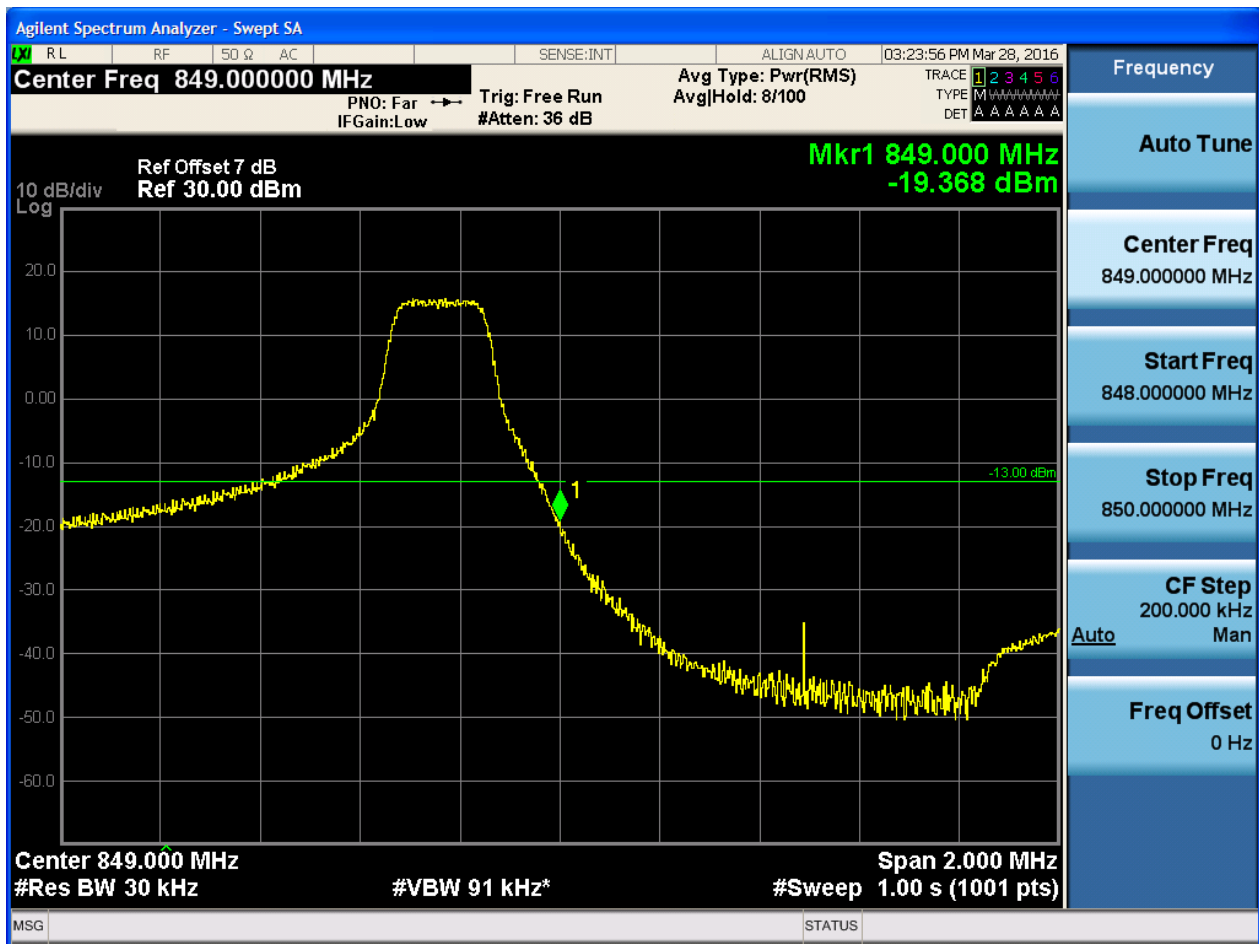
5.1.1.2.2.2 Test Channel = HCH

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

Center Freq 849.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.000 MHz
-32.714 dBm

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

Center 849.000 MHz
#Res BW 30 kHz

#VBW 91 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)



5.1.1.2.2.4 Test RB = RB15#0

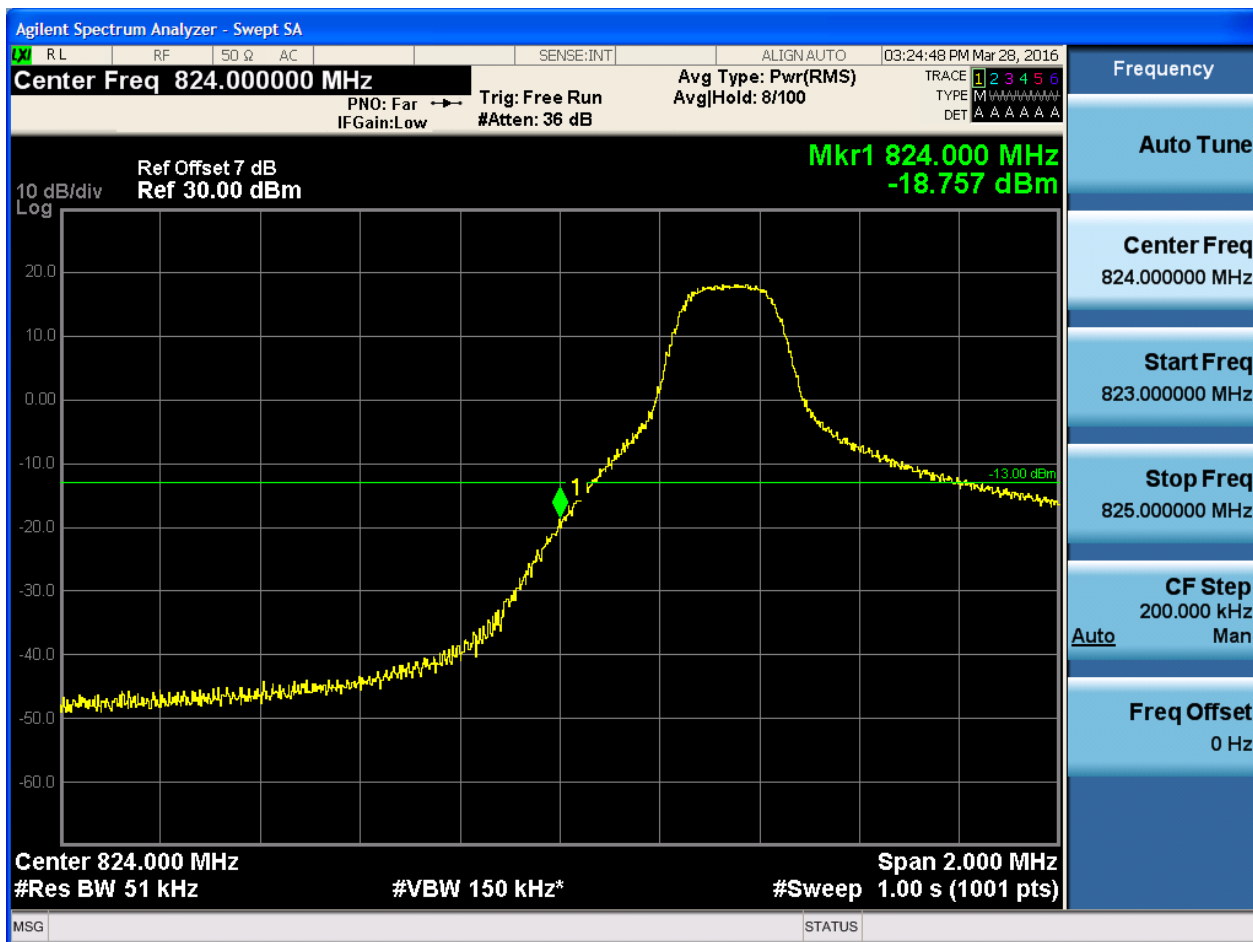




5.1.1.2.3 Test Bandwidth = 5

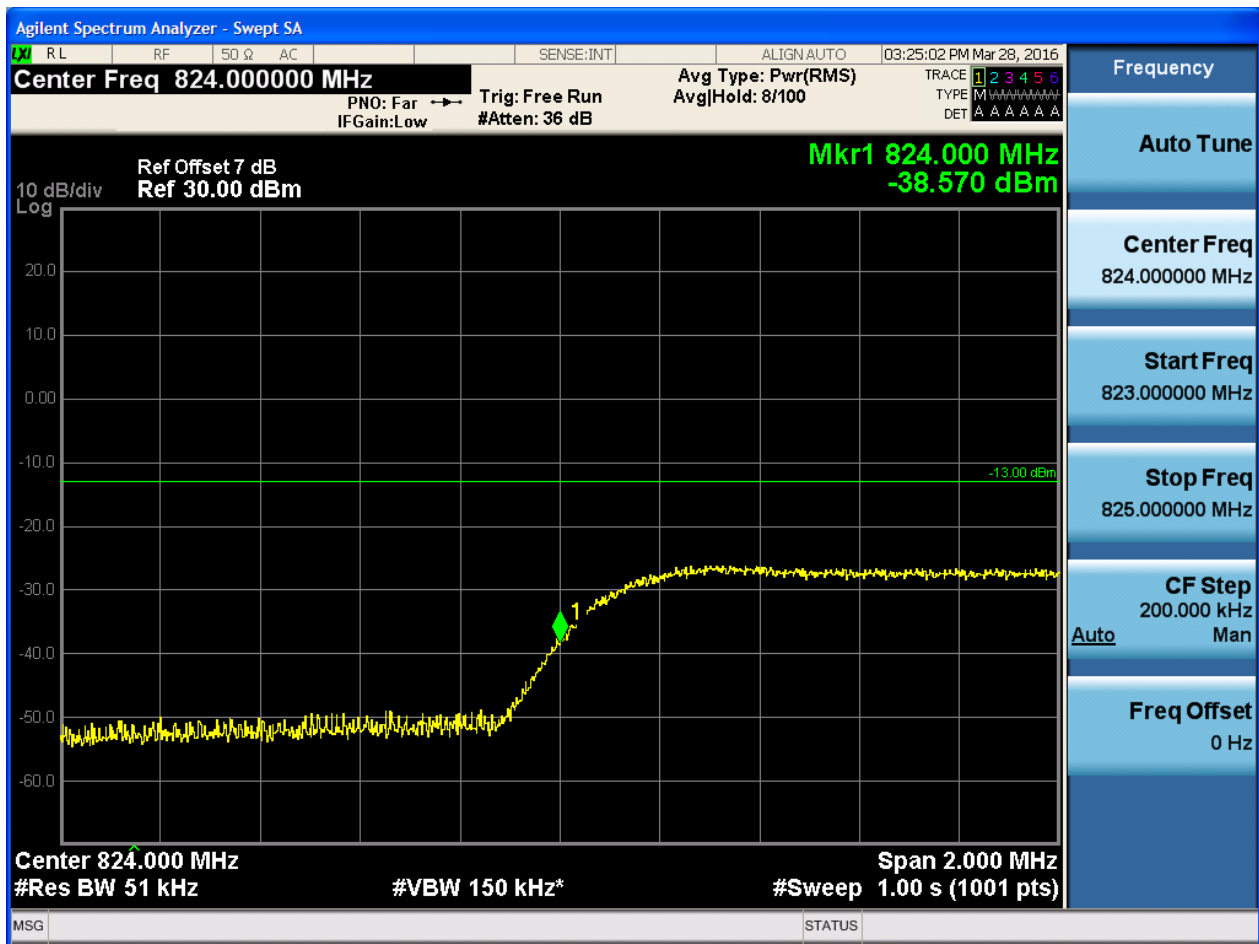
5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0





5.1.1.2.3.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 824.000 MHz
-31.141 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

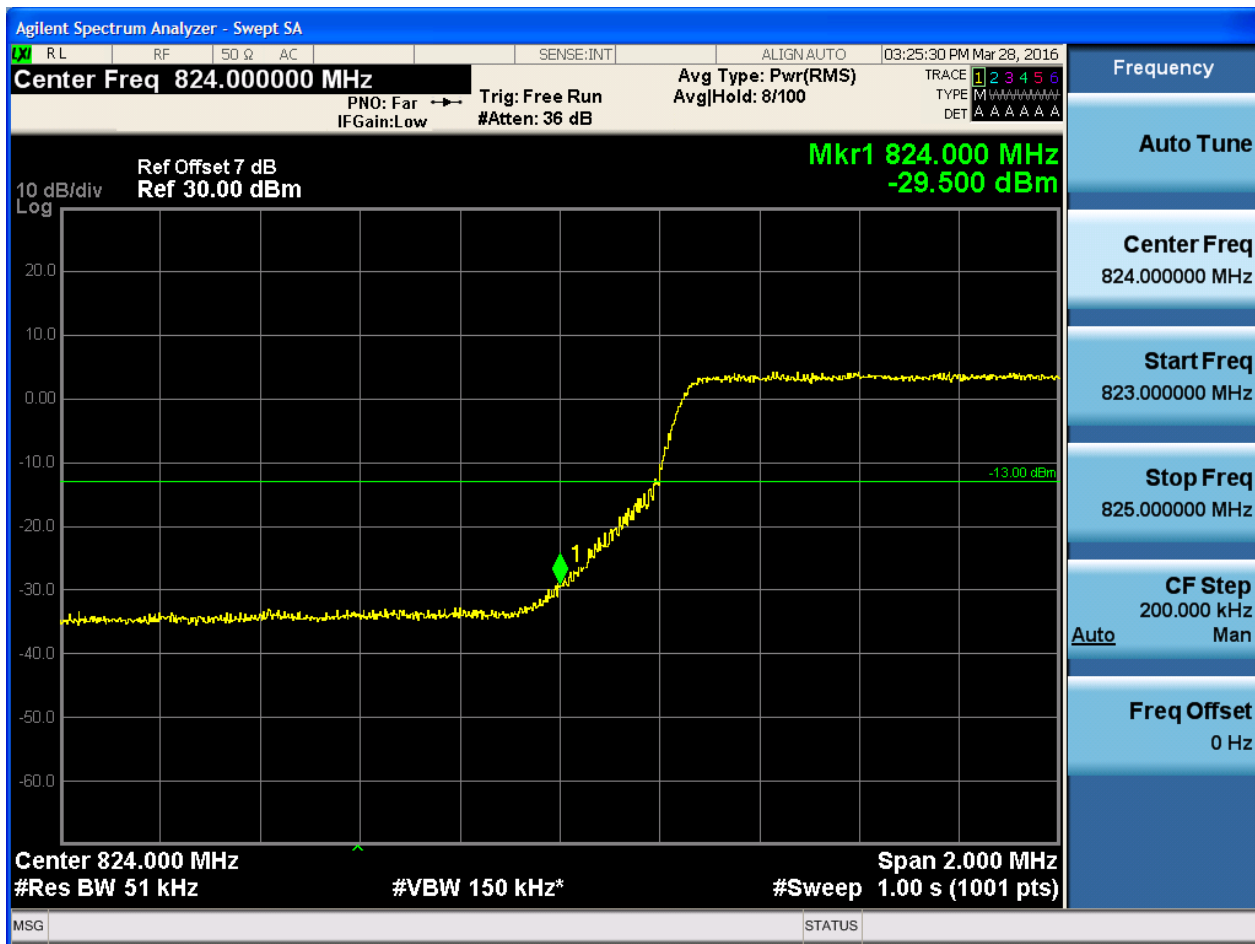
Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz



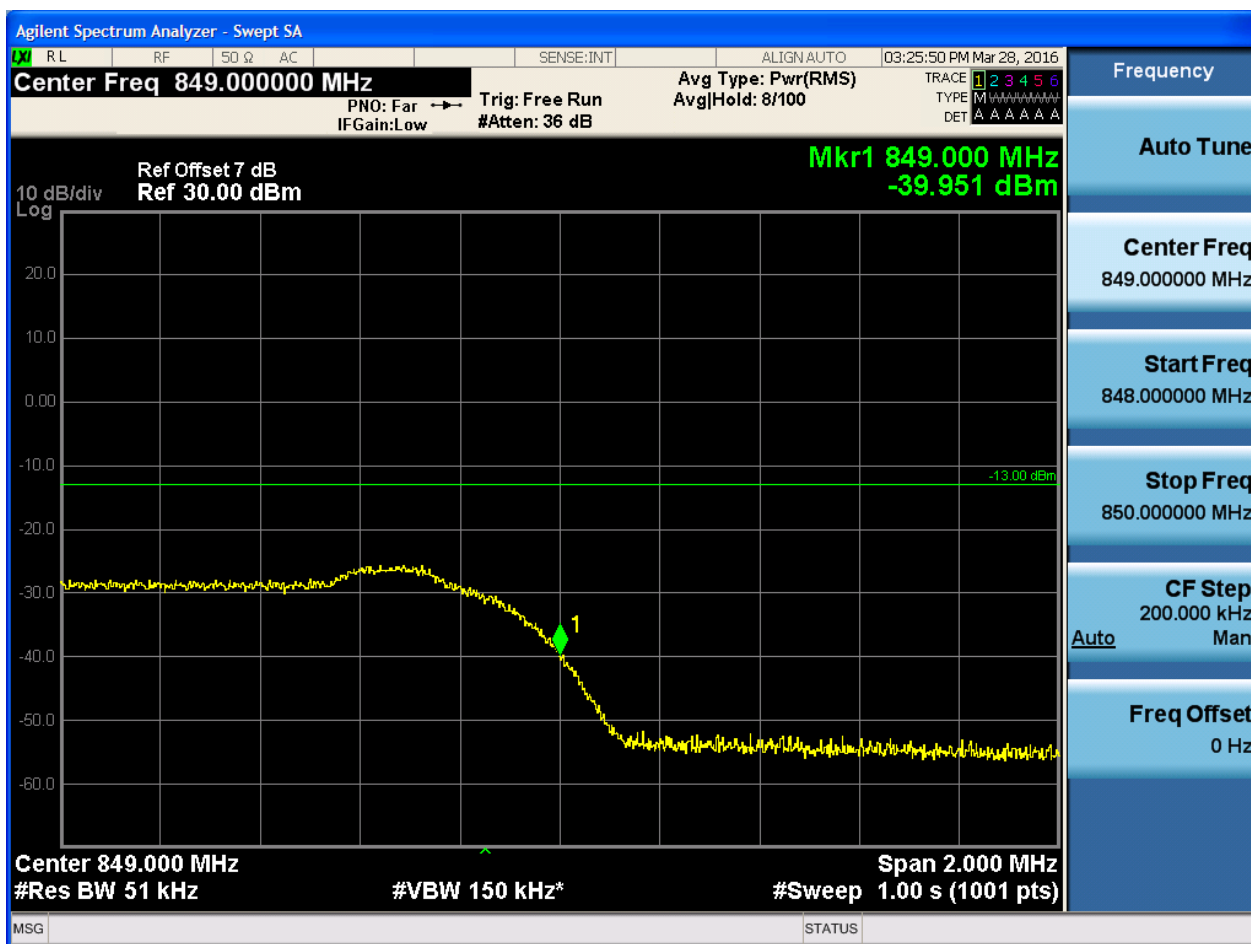
5.1.1.2.3.1.4 Test RB = RB25#0





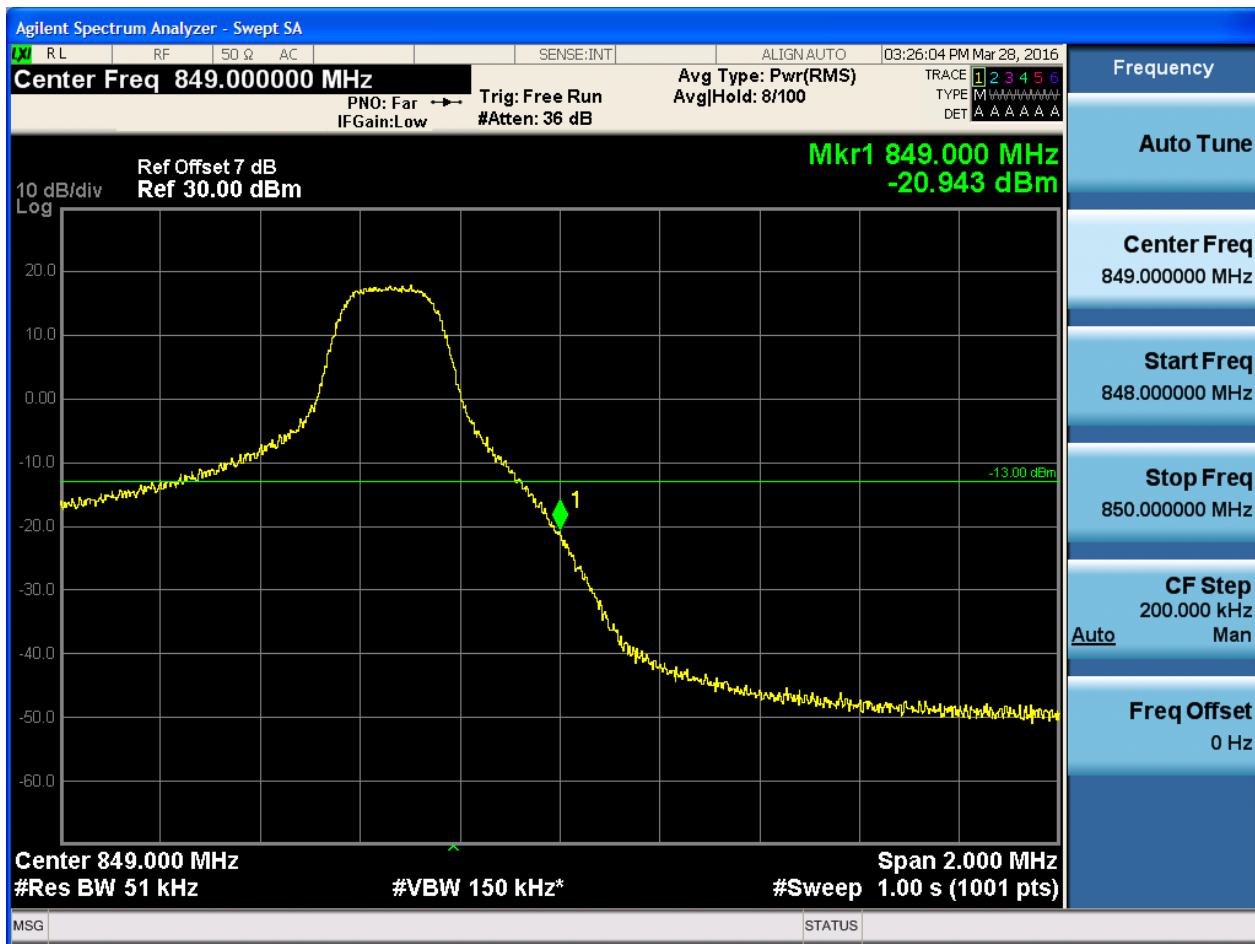
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0





5.1.1.2.3.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 03:26:18 PM Mar 28, 2016

Center Freq 849.000000 MHz Avg Type: Pwr(RMS) Trace 1 2 3 4 5 6
PNO: Far Trig: Free Run TYPE M W W W W W W W
IFGain: Low #Atten: 36 dB DET A A A A A A

Ref Offset 7 dB Mkr1 849.000 MHz
Ref 30.00 dBm -33.763 dBm

10 dB/div Log

-13.00 dBm

Center 849.000 MHz Span 2.000 MHz
#Res BW 51 kHz #VBW 150 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



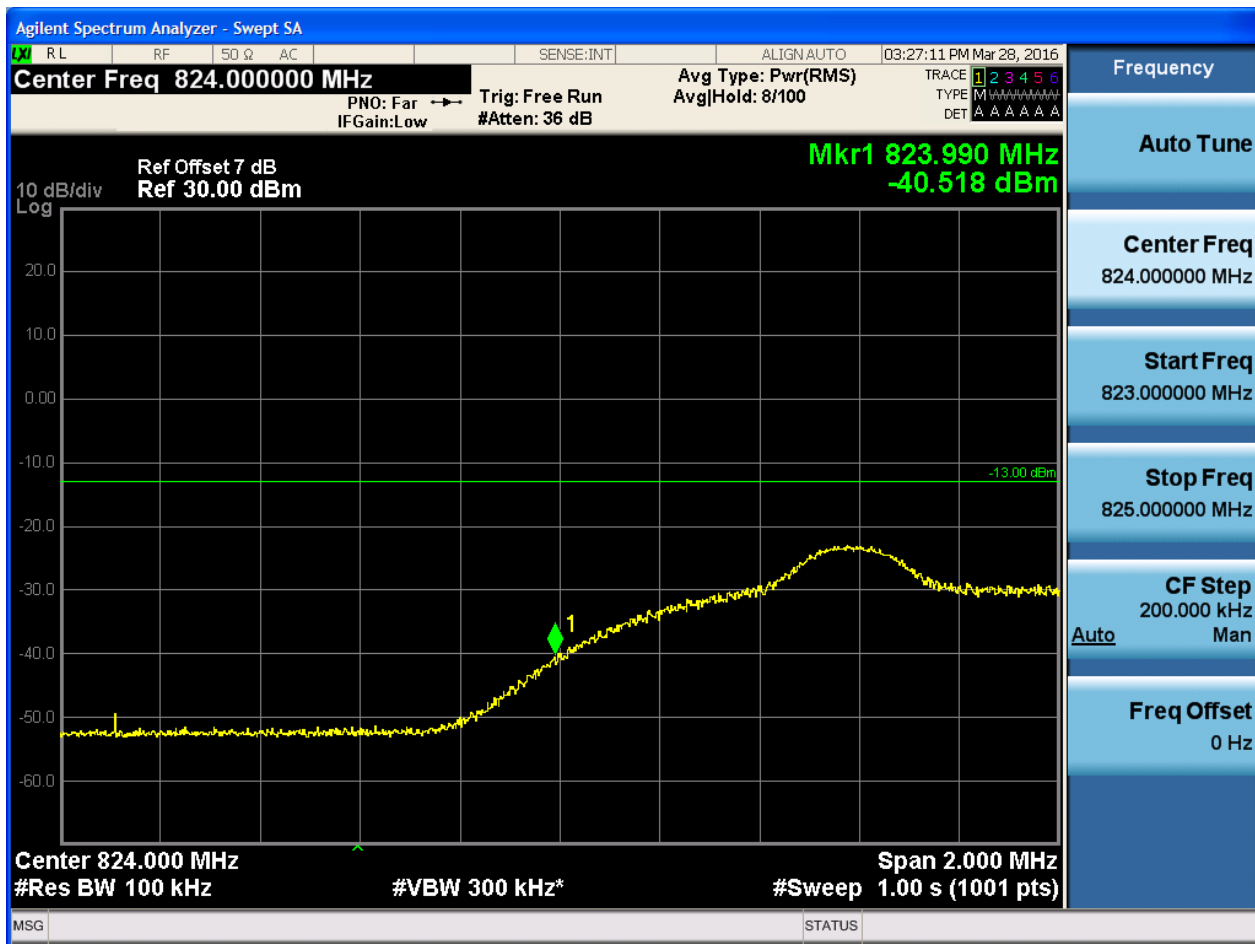
5.1.1.2.3.2.4 Test RB = RB25#0





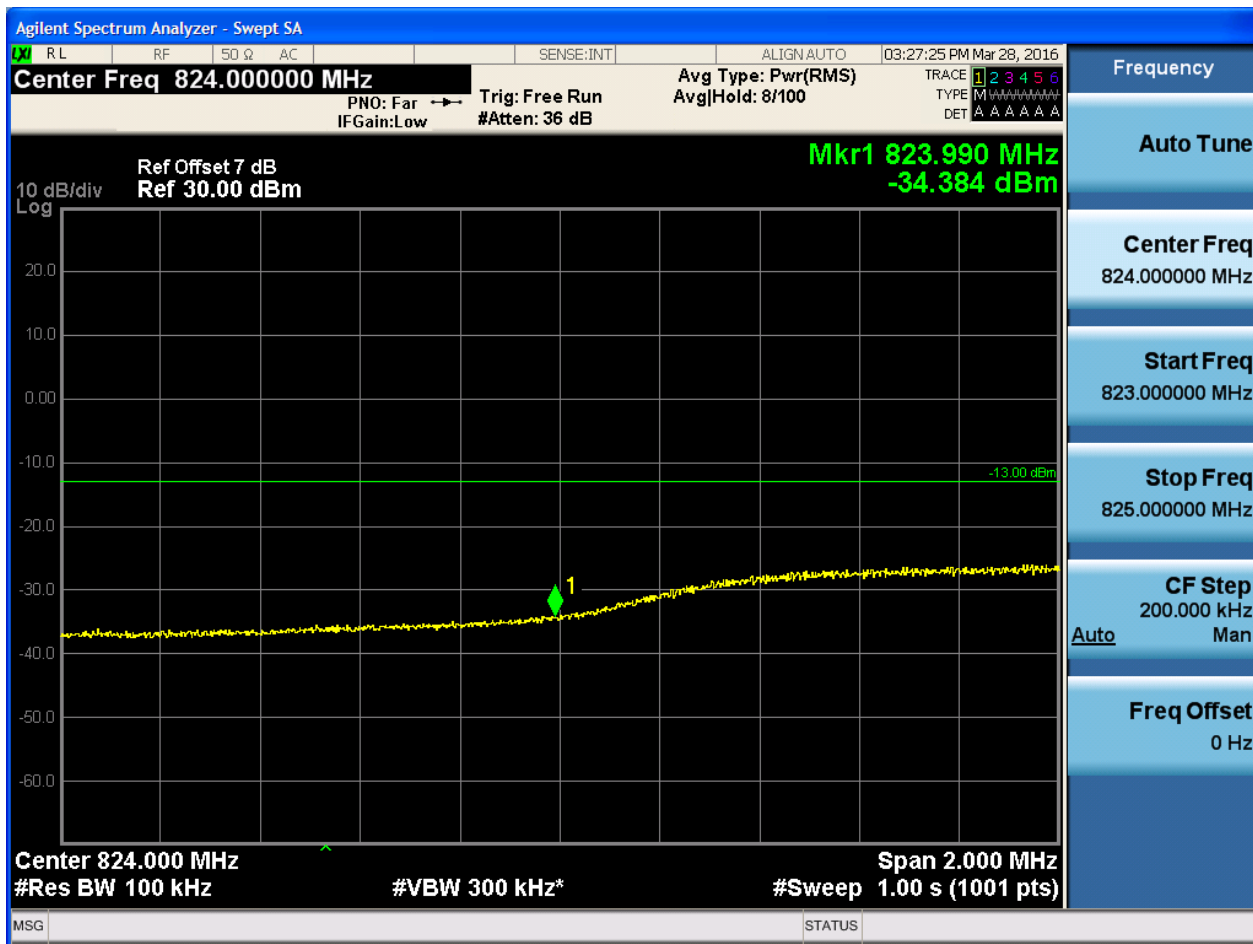


5.1.1.2.4.1.2 Test RB = RB1#49



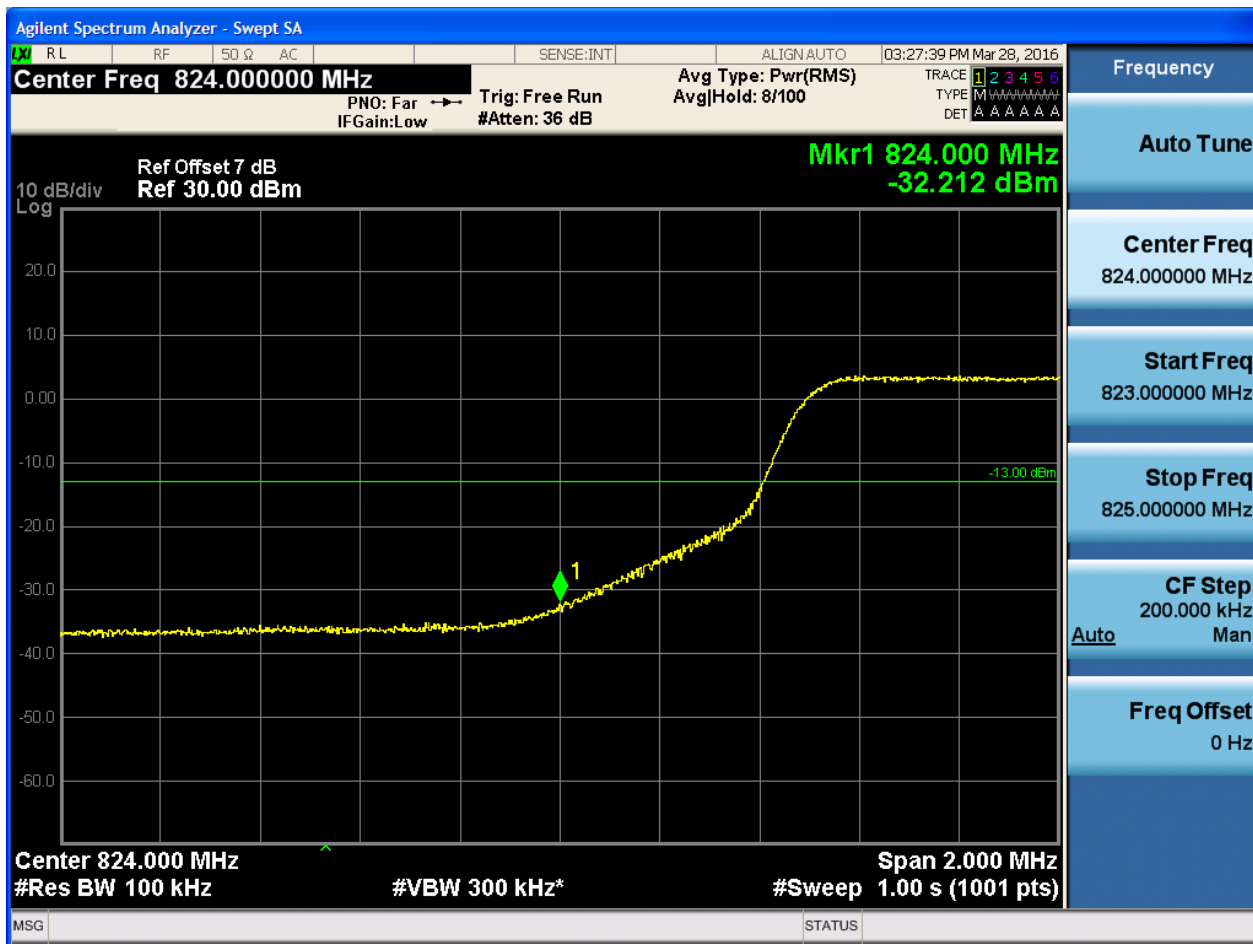


5.1.1.2.4.1.3 Test RB = RB25#13





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

Center Freq 849.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Span 2.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
#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

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

Freq Offset
0 Hz

Msg STATUS



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

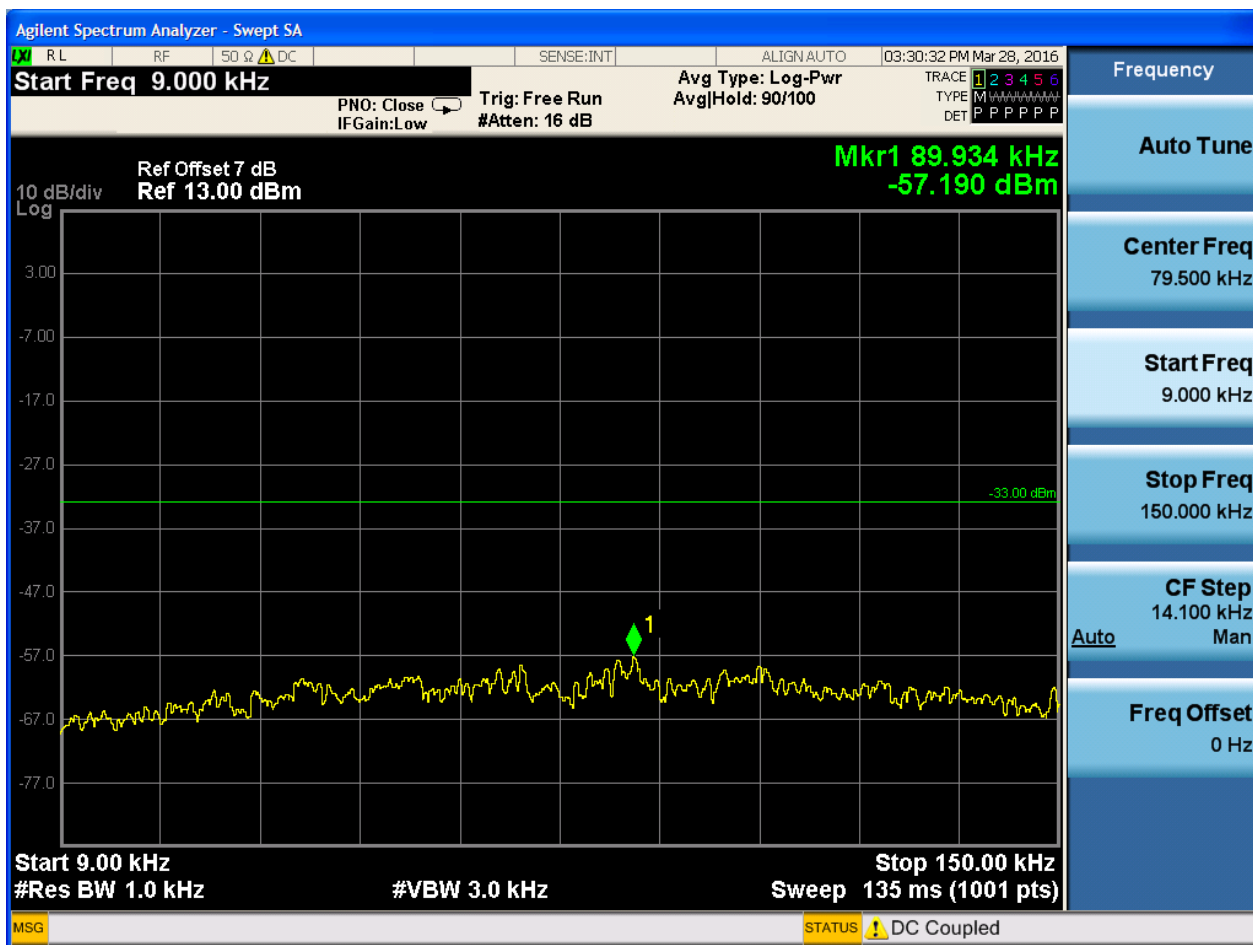
6.1.1 Test Band = BAND5

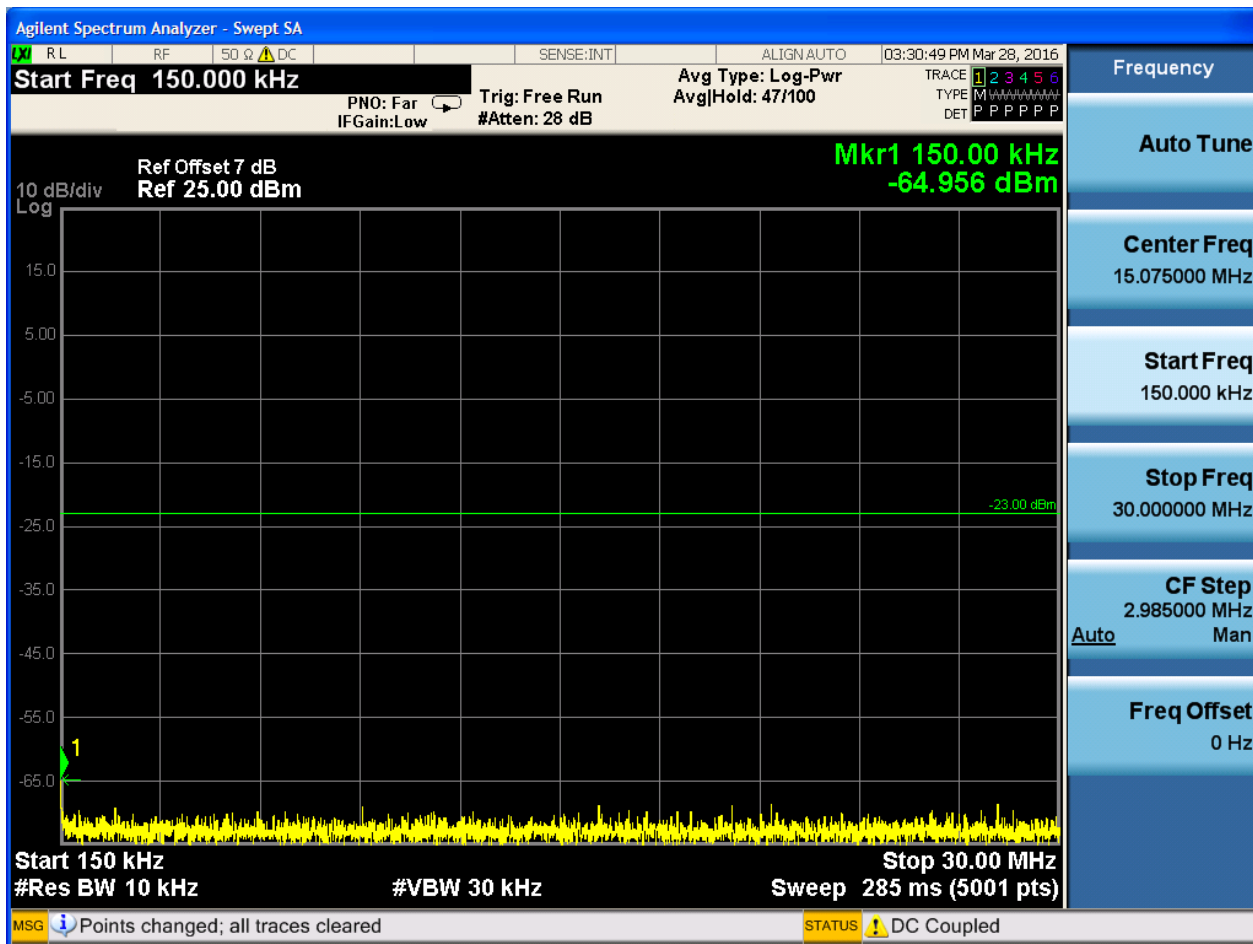
6.1.1.1 Test Mode = LTE/TM1

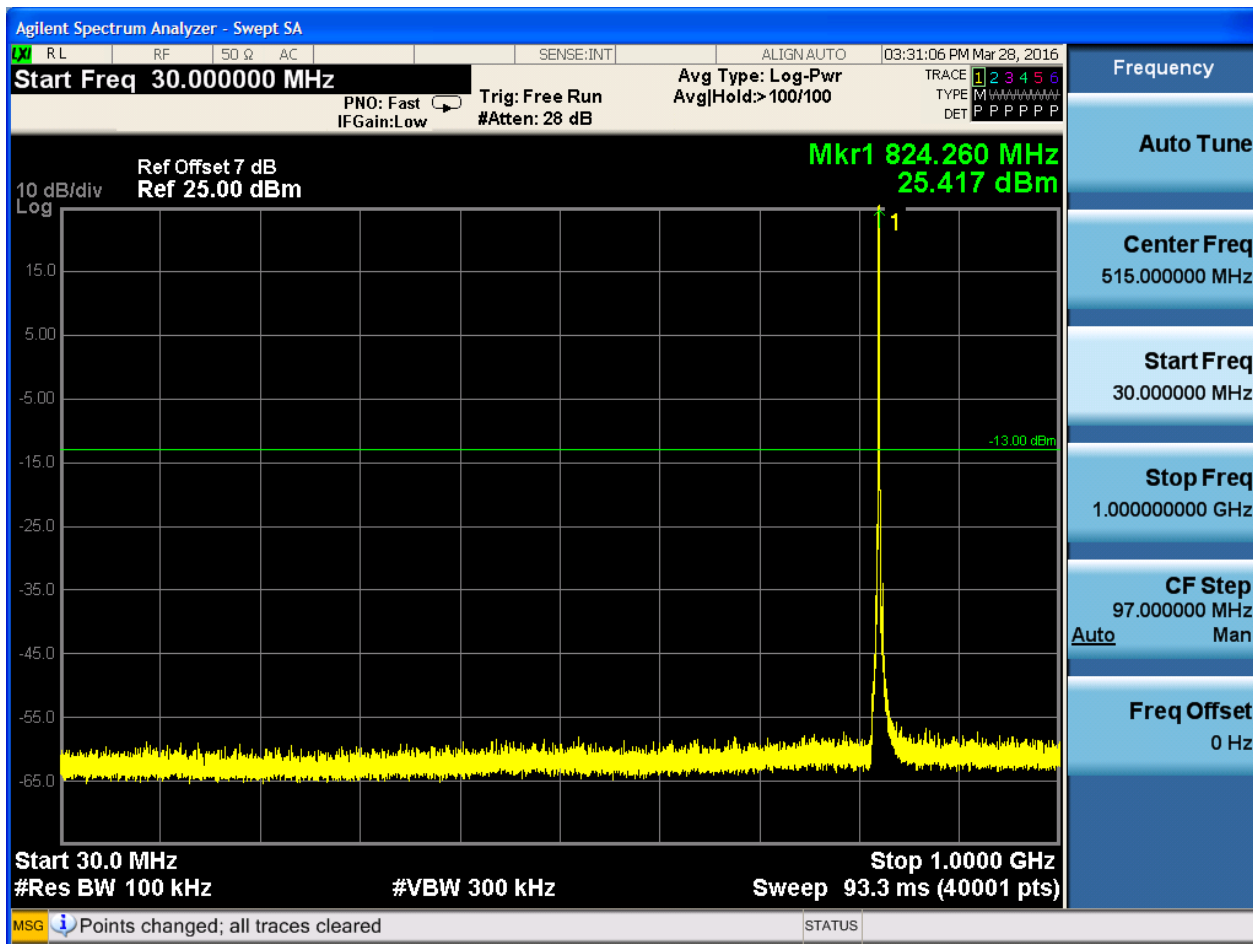
6.1.1.1.1 Test Bandwidth = 1.4

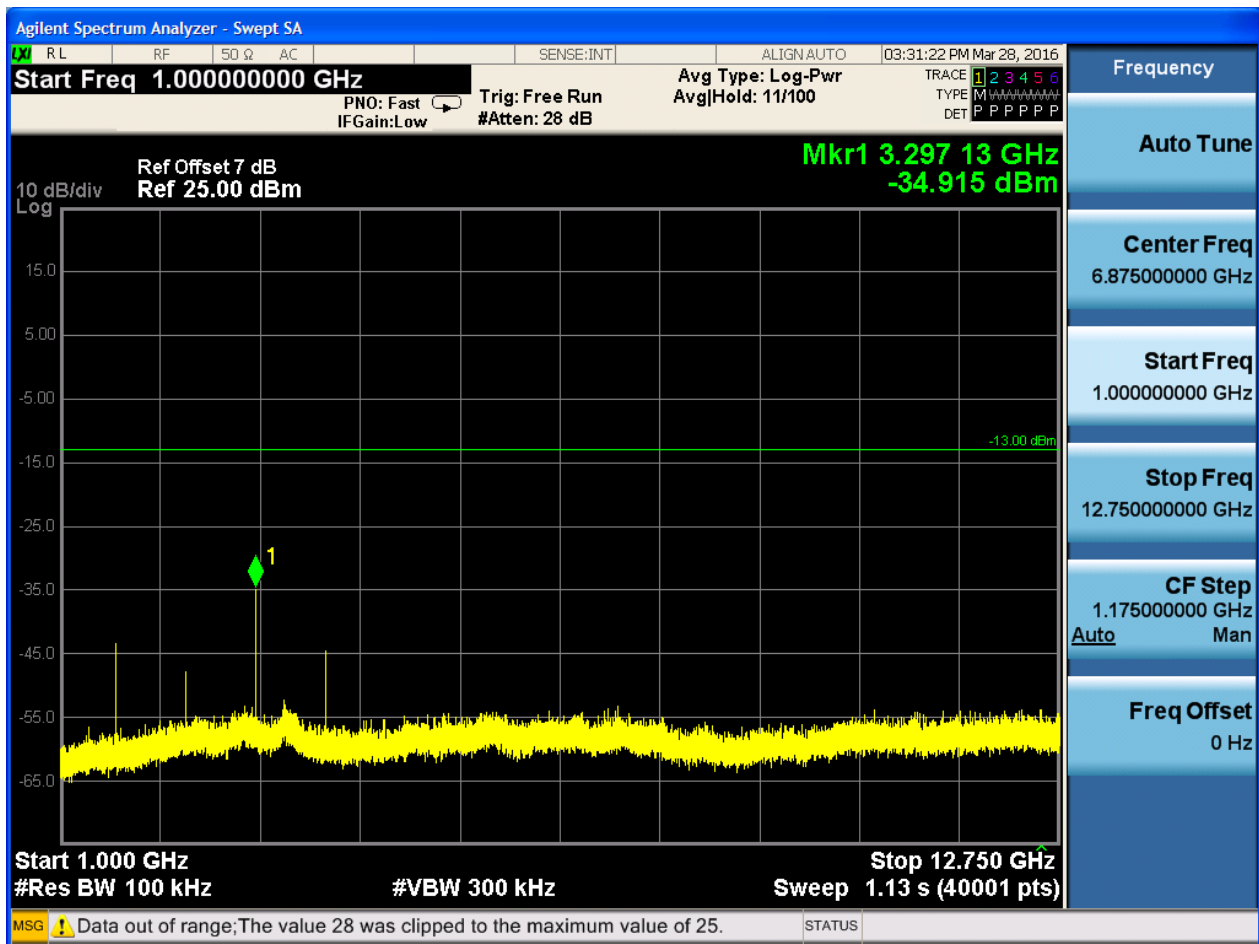
6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0





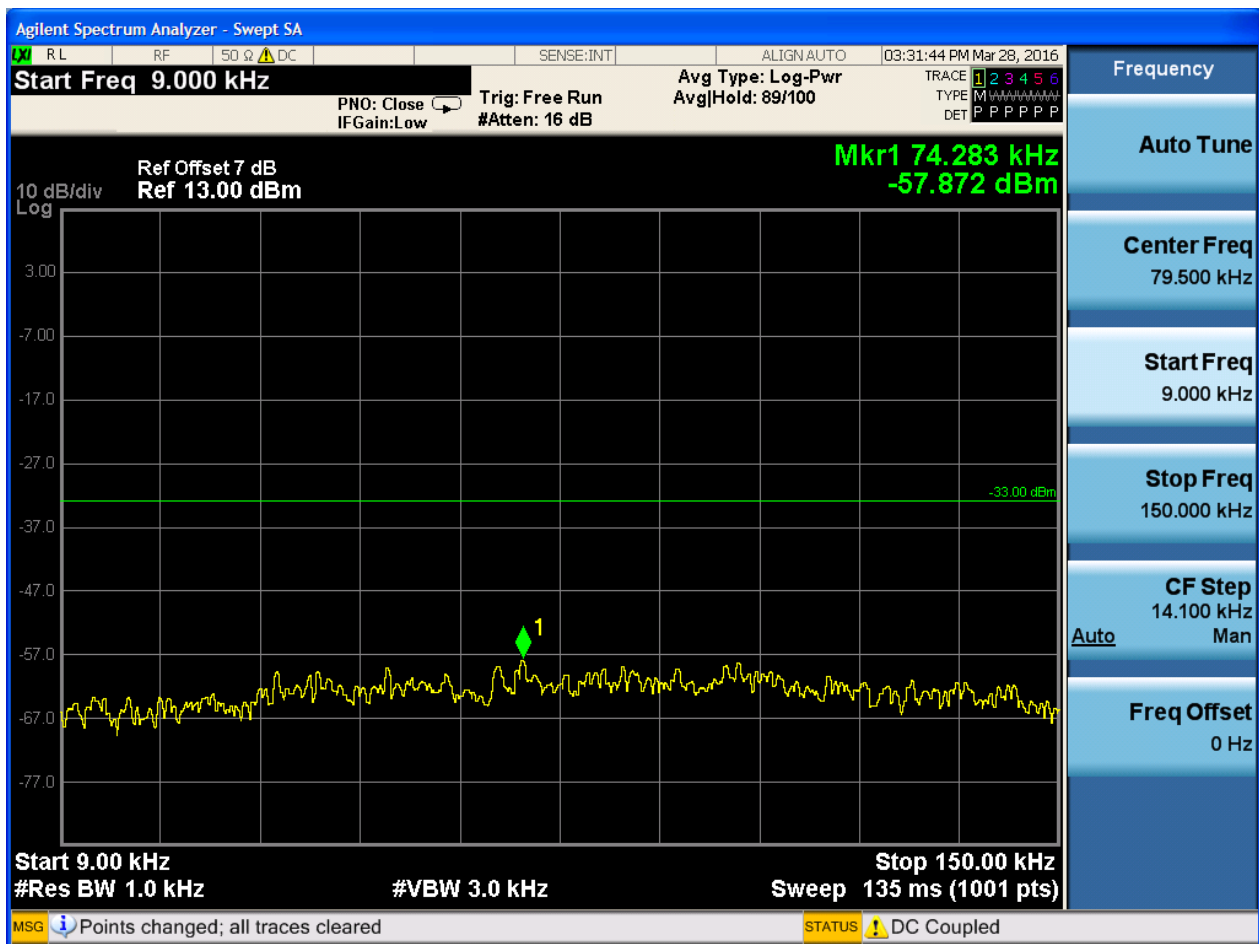




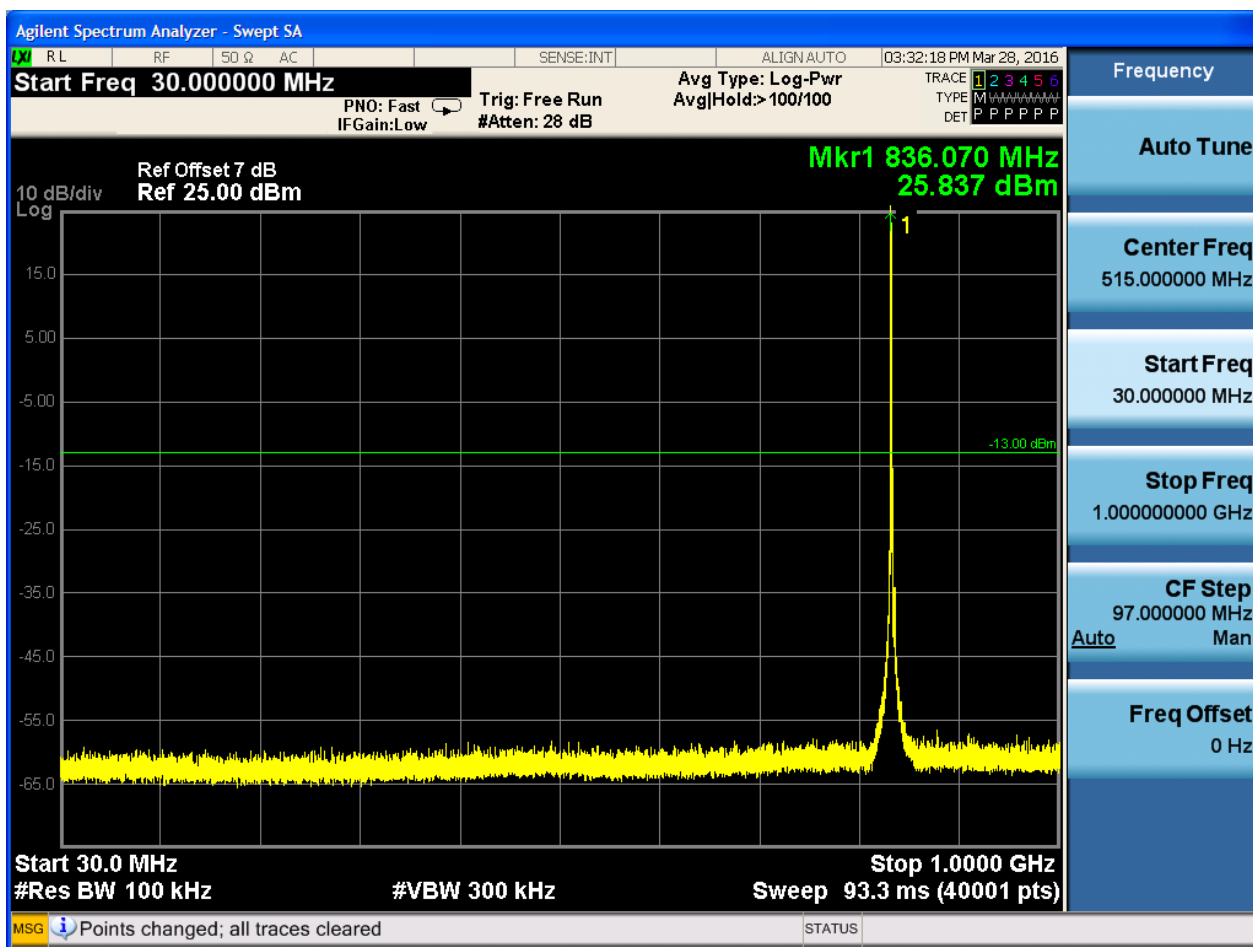


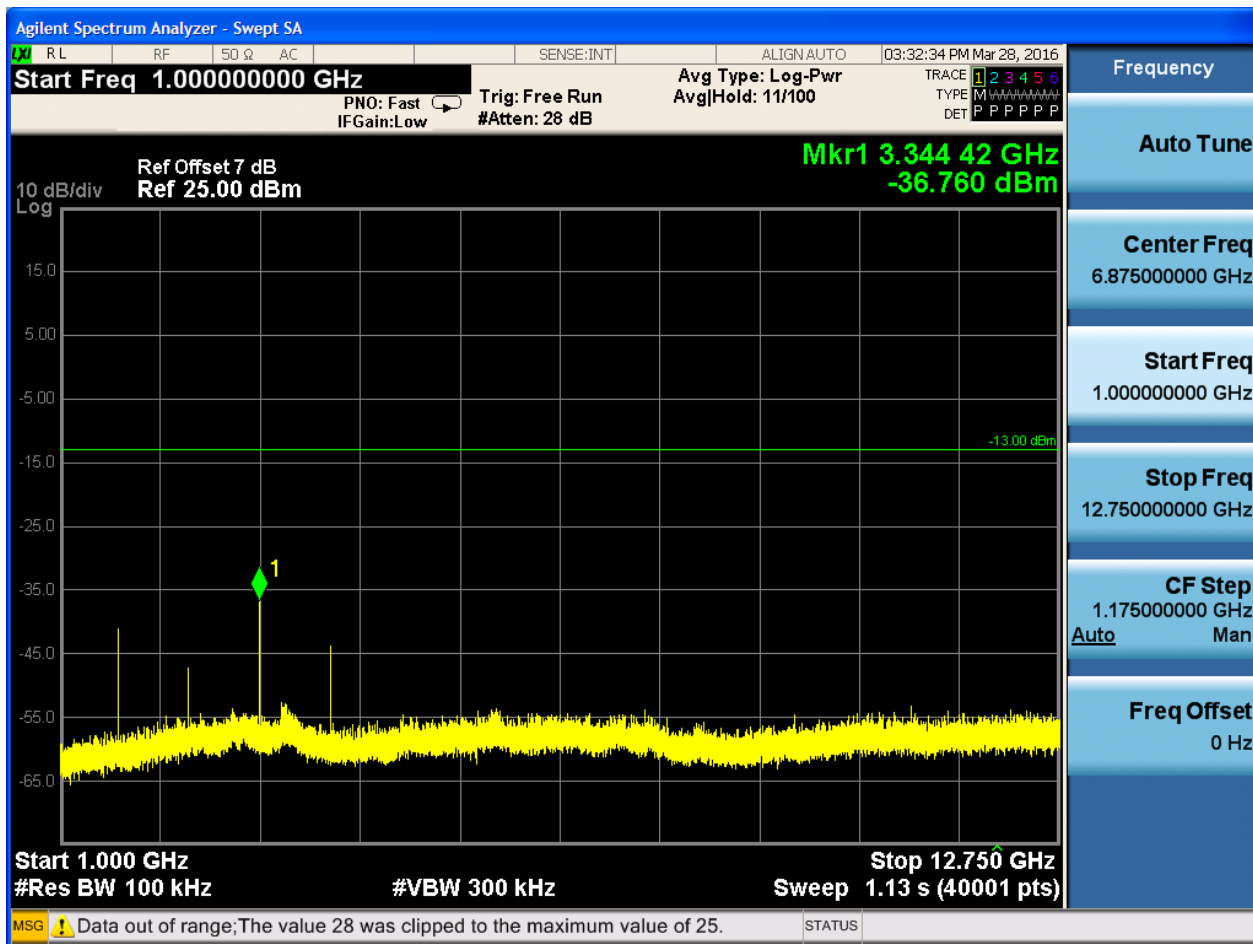
6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0





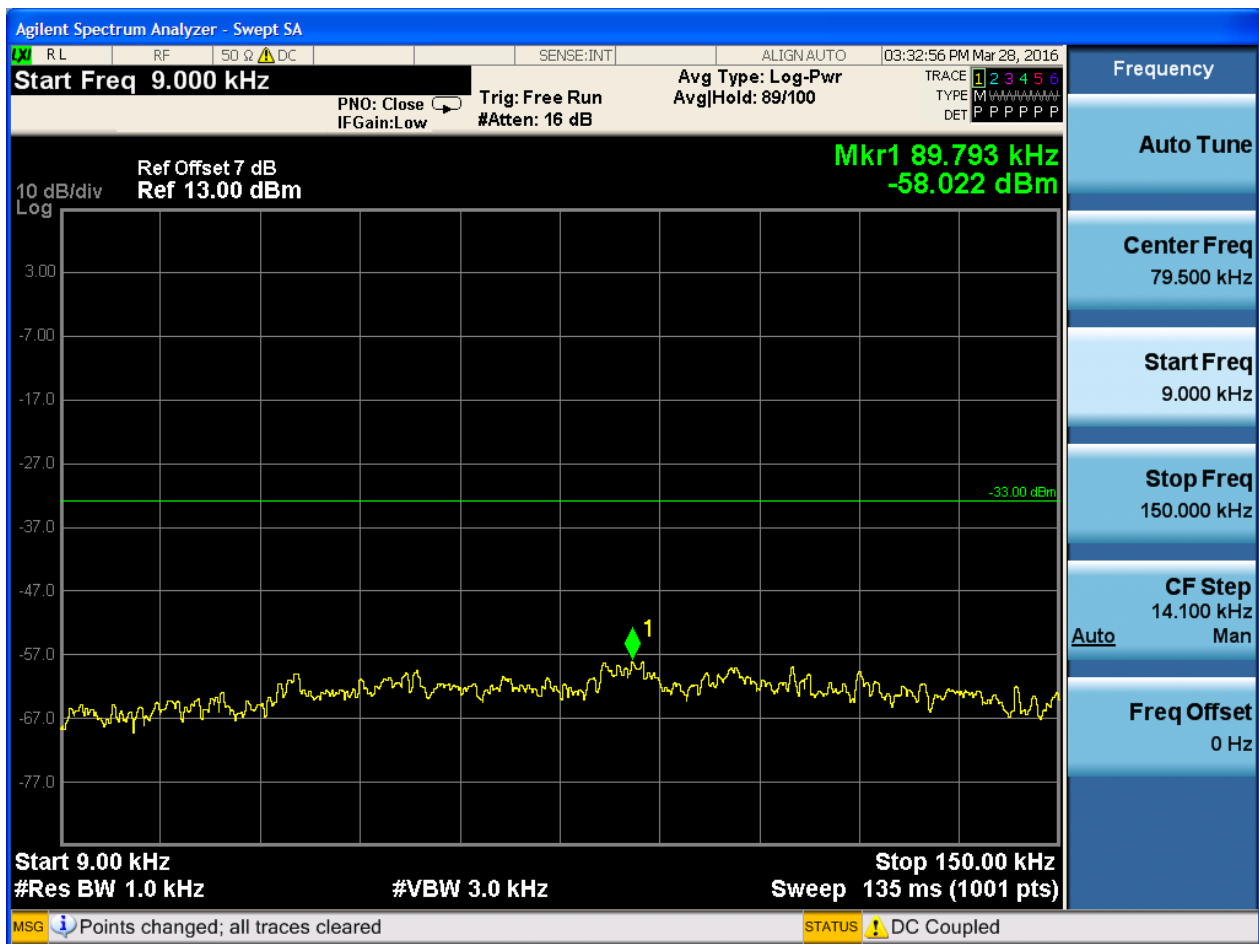




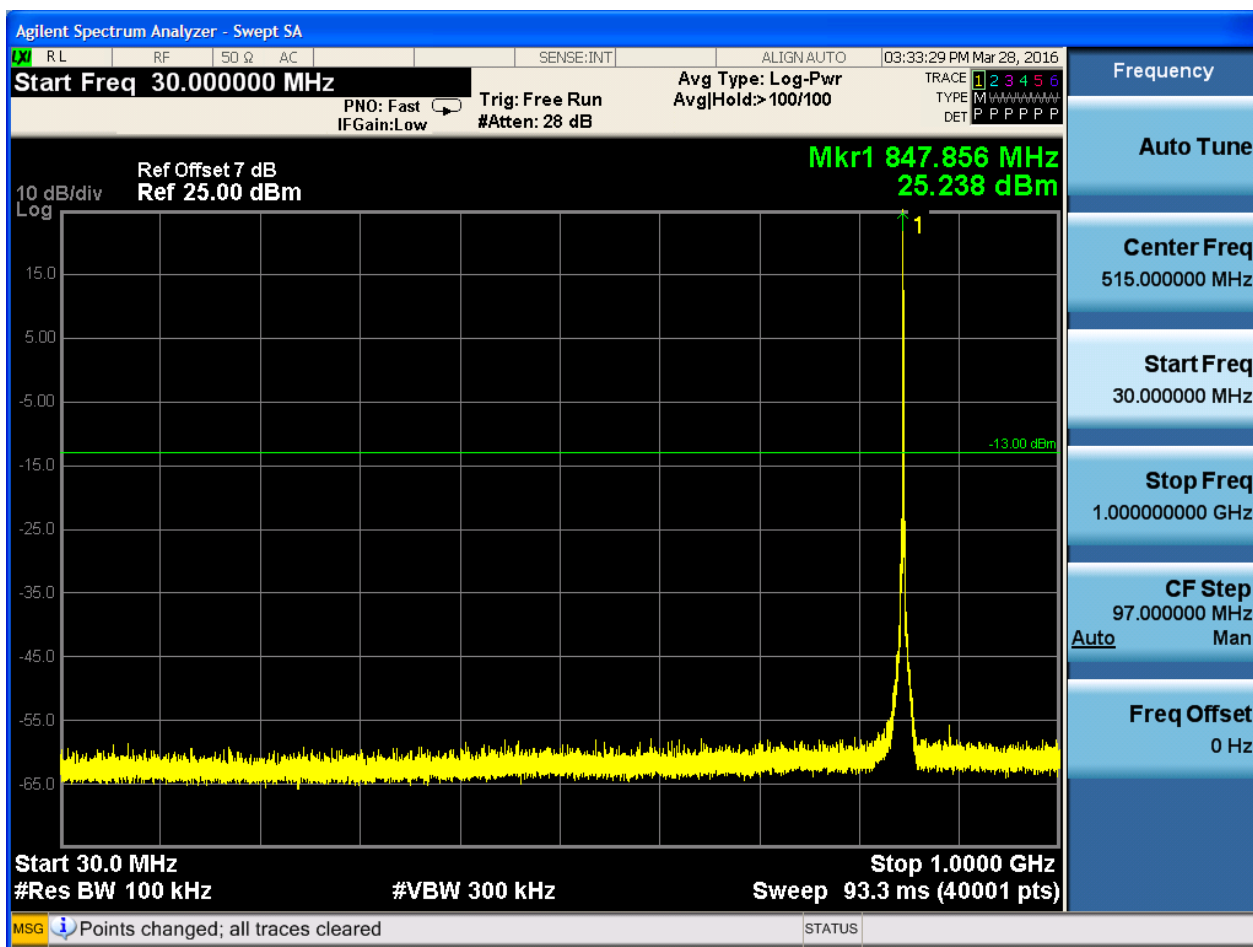


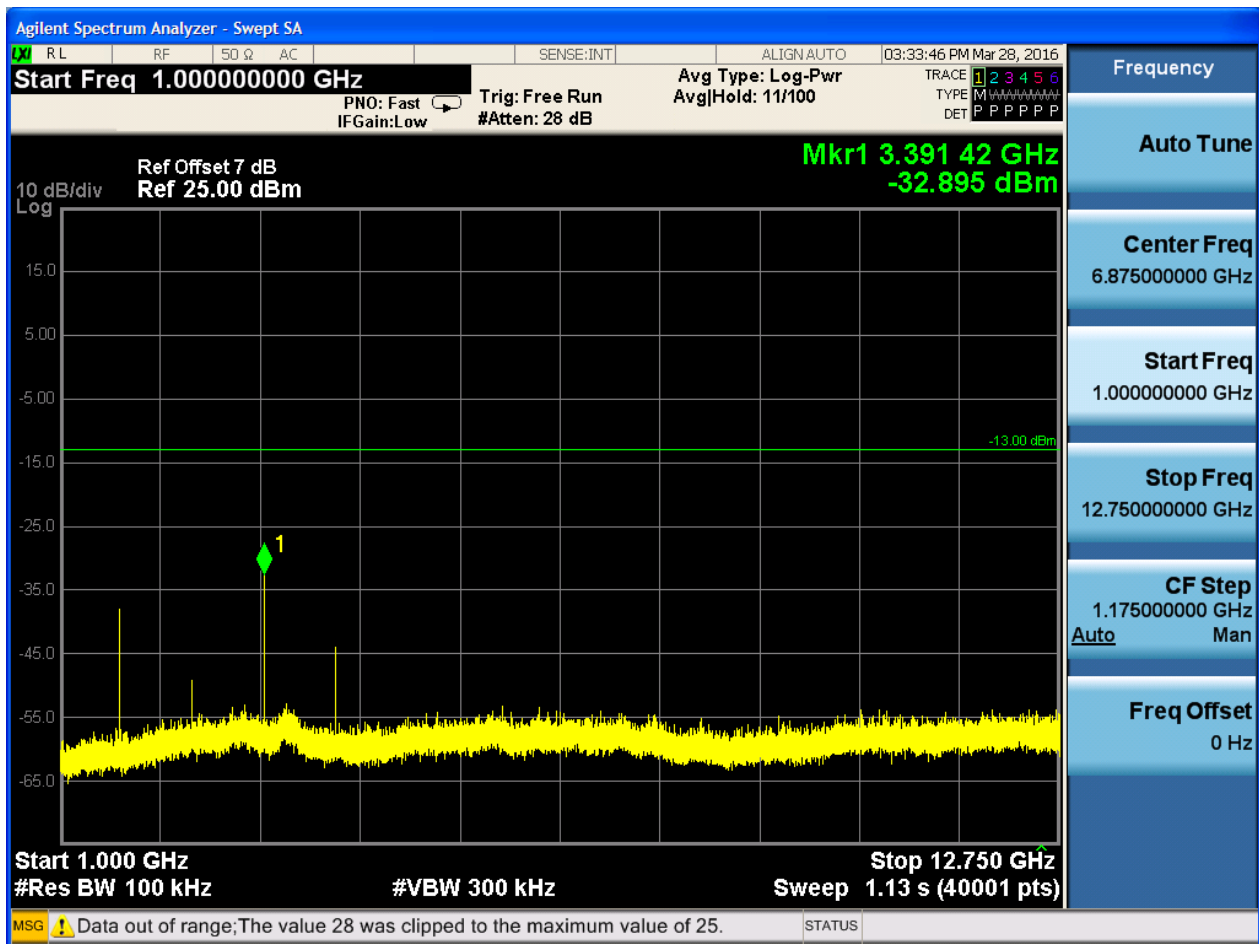
6.1.1.1.3 Test Channel = HCH

6.1.1.1.3.1 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

