



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
BAND17	LTE/TM1	5	LCH	RB1#0	22.05	17.9	34.7	PASS
				RB1#13	22.2	18.05	34.7	PASS
				RB1#24	22.92	18.77	34.7	PASS
				RB12#0	20.8	16.65	34.7	PASS
				RB12#6	20.79	16.64	34.7	PASS
				RB12#13	20.79	16.64	34.7	PASS
				RB25#0	20.86	16.71	34.7	PASS
			MCH	RB1#0	22	17.85	34.7	PASS
				RB1#13	22.54	18.39	34.7	PASS
				RB1#24	23.38	19.23	34.7	PASS
				RB12#0	20.93	16.78	34.7	PASS
				RB12#6	21.1	16.95	34.7	PASS
				RB12#13	20.96	16.81	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	20.97	16.82	34.7	PASS
			HCH	RB1#0	22.36	18.21	34.7	PASS
				RB1#13	23.11	18.96	34.7	PASS
				RB1#24	23.02	18.87	34.7	PASS
				RB12#0	21.29	17.14	34.7	PASS
				RB12#6	21.5	17.35	34.7	PASS
				RB12#13	21.32	17.17	34.7	PASS
				RB25#0	21.32	17.17	34.7	PASS
		10	LCH	RB1#0	22.8	18.65	34.7	PASS
				RB1#25	23.1	18.95	34.7	PASS
				RB1#49	23.47	19.32	34.7	PASS
				RB25#0	21.55	17.4	34.7	PASS
				RB25#13	21.67	17.52	34.7	PASS
				RB25#25	22.04	17.89	34.7	PASS
				RB50#0	21.7	17.55	34.7	PASS
			MCH	RB1#0	22.58	18.43	34.7	PASS
				RB1#25	23.32	19.17	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#49	23.35	19.2	34.7	PASS
				RB25#0	21.43	17.28	34.7	PASS
				RB25#13	21.88	17.73	34.7	PASS
				RB25#25	22.16	18.01	34.7	PASS
				RB50#0	21.87	17.72	34.7	PASS
			HCH	RB1#0	22.52	18.37	34.7	PASS
				RB1#25	23.28	19.13	34.7	PASS
				RB1#49	22.93	18.78	34.7	PASS
				RB25#0	21.58	17.43	34.7	PASS
				RB25#13	22.21	18.06	34.7	PASS
				RB25#25	22.3	18.15	34.7	PASS
				RB50#0	22.13	17.98	34.7	PASS
	LTE/TM2	5	LCH	RB1#0	21.68	17.53	34.7	PASS
				RB1#13	21.66	17.51	34.7	PASS
				RB1#24	22.27	18.12	34.7	PASS
				RB12#0	20.63	16.48	34.7	PASS
				RB12#6	20.47	16.32	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB12#13	20.48	16.33	34.7	PASS
				RB25#0	20.56	16.41	34.7	PASS
			MCH	RB1#0	21.33	17.18	34.7	PASS
				RB1#13	21.96	17.81	34.7	PASS
				RB1#24	22.93	18.78	34.7	PASS
				RB12#0	20.61	16.46	34.7	PASS
				RB12#6	20.88	16.73	34.7	PASS
				RB12#13	20.76	16.61	34.7	PASS
				RB25#0	20.76	16.61	34.7	PASS
			HCH	RB1#0	22.27	18.12	34.7	PASS
				RB1#13	22.22	18.07	34.7	PASS
				RB1#24	22.86	18.71	34.7	PASS
				RB12#0	21.29	17.14	34.7	PASS
				RB12#6	21.43	17.28	34.7	PASS
				RB12#13	21.23	17.08	34.7	PASS
				RB25#0	21.32	17.17	34.7	PASS
		10	LCH	RB1#0	21.95	17.8	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#25	22.16	18.01	34.7	PASS
				RB1#49	22.52	18.37	34.7	PASS
				RB25#0	20.97	16.82	34.7	PASS
				RB25#13	21.09	16.94	34.7	PASS
				RB25#25	21.46	17.31	34.7	PASS
				RB50#0	21.12	16.97	34.7	PASS
			MCH	RB1#0	21.63	17.48	34.7	PASS
				RB1#25	22.37	18.22	34.7	PASS
				RB1#49	22.49	18.34	34.7	PASS
				RB25#0	20.85	16.7	34.7	PASS
				RB25#13	21.27	17.12	34.7	PASS
				RB25#25	21.25	17.1	34.7	PASS
				RB50#0	21.27	17.12	34.7	PASS
			HCH	RB1#0	21.62	17.47	34.7	PASS
				RB1#25	22.6	18.45	34.7	PASS
				RB1#49	22.06	17.91	34.7	PASS
				RB25#0	20.96	16.81	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#13	20.95	16.8	34.7	PASS
				RB25#25	20.88	16.73	34.7	PASS
				RB50#0	21.04	16.89	34.7	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:

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

SET RBW=1%of the OBW,not to exceed 1MHz

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

SET Sweep time=auto-couple.

Detector:RMS



2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND17	LTE/TM1	5	LCH	RB1#0	4.65	13	PASS
				RB1#13	4.55	13	PASS
				RB1#24	4.24	13	PASS
				RB12#0	5.59	13	PASS
				RB12#6	5.36	13	PASS
				RB12#13	5.51	13	PASS
				RB25#0	5.73	13	PASS
			MCH	RB1#0	4.71	13	PASS
				RB1#13	4.35	13	PASS
				RB1#24	3.17	13	PASS
				RB12#0	5.42	13	PASS
				RB12#6	5.34	13	PASS
				RB12#13	5.58	13	PASS
				RB25#0	5.95	13	PASS
			HCH	RB1#0	4.28	13	PASS
				RB1#13	3.61	13	PASS
				RB1#24	4.36	13	PASS
				RB12#0	5.06	13	PASS
				RB12#6	4.99	13	PASS
				RB12#13	5.29	13	PASS
				RB25#0	5.36	13	PASS
		10	LCH	RB1#0	4.78	13	PASS
				RB1#25	4.17	13	PASS
				RB1#49	3.72	13	PASS
				RB25#0	5.63	13	PASS
				RB25#13	5.32	13	PASS
				RB25#25	5.46	13	PASS
				RB50#0	6.16	13	PASS
			MCH	RB1#0	4.25	13	PASS
				RB1#25	3.9	13	PASS
				RB1#49	3.98	13	PASS
				RB25#0	5.39	13	PASS
				RB25#13	5.27	13	PASS
				RB25#25	5.38	13	PASS
				RB50#0	5.88	13	PASS
			HCH	RB1#0	4.73	13	PASS
				RB1#25	3.55	13	PASS
				RB1#49	4.48	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
	LTE/TM2			RB25#0	5.32	13	PASS
				RB25#13	5.09	13	PASS
				RB25#25	5.23	13	PASS
				RB50#0	5.73	13	PASS
		5	LCH	RB1#0	5.33	13	PASS
				RB1#13	5.29	13	PASS
				RB1#24	5	13	PASS
				RB12#0	6.23	13	PASS
				RB12#6	6.14	13	PASS
				RB12#13	5.96	13	PASS
				RB25#0	6.37	13	PASS
			MCH	RB1#0	5.01	13	PASS
				RB1#13	4.91	13	PASS
				RB1#24	3.84	13	PASS
				RB12#0	5.82	13	PASS
				RB12#6	5.78	13	PASS
				RB12#13	6.06	13	PASS
				RB25#0	6.32	13	PASS
			HCH	RB1#0	4.79	13	PASS
				RB1#13	4.22	13	PASS
				RB1#24	4.78	13	PASS
				RB12#0	5.57	13	PASS
				RB12#6	5.52	13	PASS
				RB12#13	5.88	13	PASS
				RB25#0	6.17	13	PASS
		10	LCH	RB1#0	5.18	13	PASS
				RB1#25	4.9	13	PASS
				RB1#49	4.25	13	PASS
				RB25#0	6.28	13	PASS
				RB25#13	5.97	13	PASS
				RB25#25	6.04	13	PASS
				RB50#0	6.45	13	PASS
			MCH	RB1#0	5.01	13	PASS
				RB1#25	4.74	13	PASS
				RB1#49	4.62	13	PASS
				RB25#0	6.11	13	PASS
				RB25#13	5.87	13	PASS
				RB25#25	5.79	13	PASS
				RB50#0	6.73	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			HCH	RB1#0	5.09	13	PASS
				RB1#25	4.19	13	PASS
				RB1#49	4.87	13	PASS
				RB25#0	6.18	13	PASS
				RB25#13	5.78	13	PASS
				RB25#25	5.8	13	PASS
				RB50#0	6.45	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

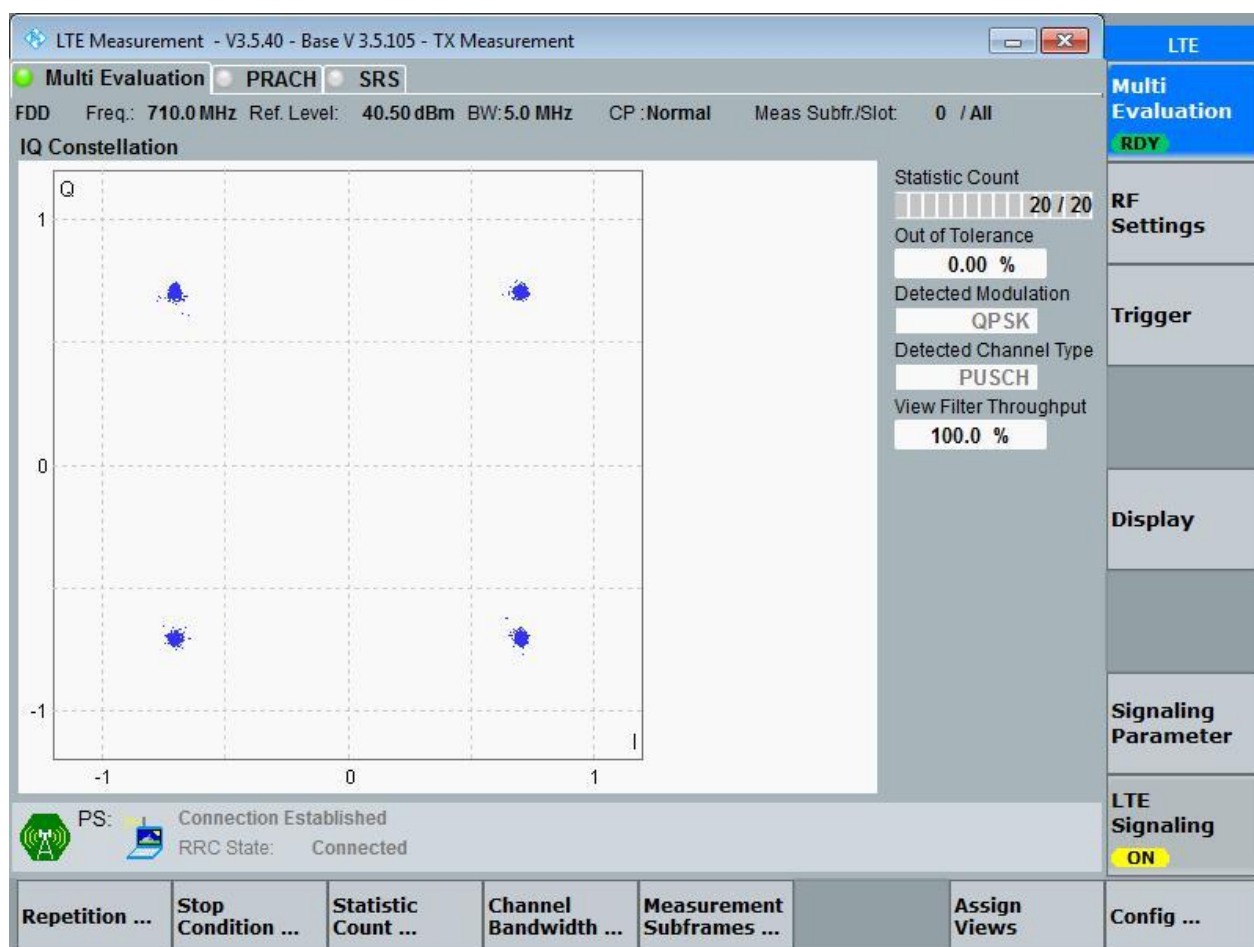
3.1.1 Test Band = BAND17

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 5

3.1.1.1.1.1 Test Channel = MCH

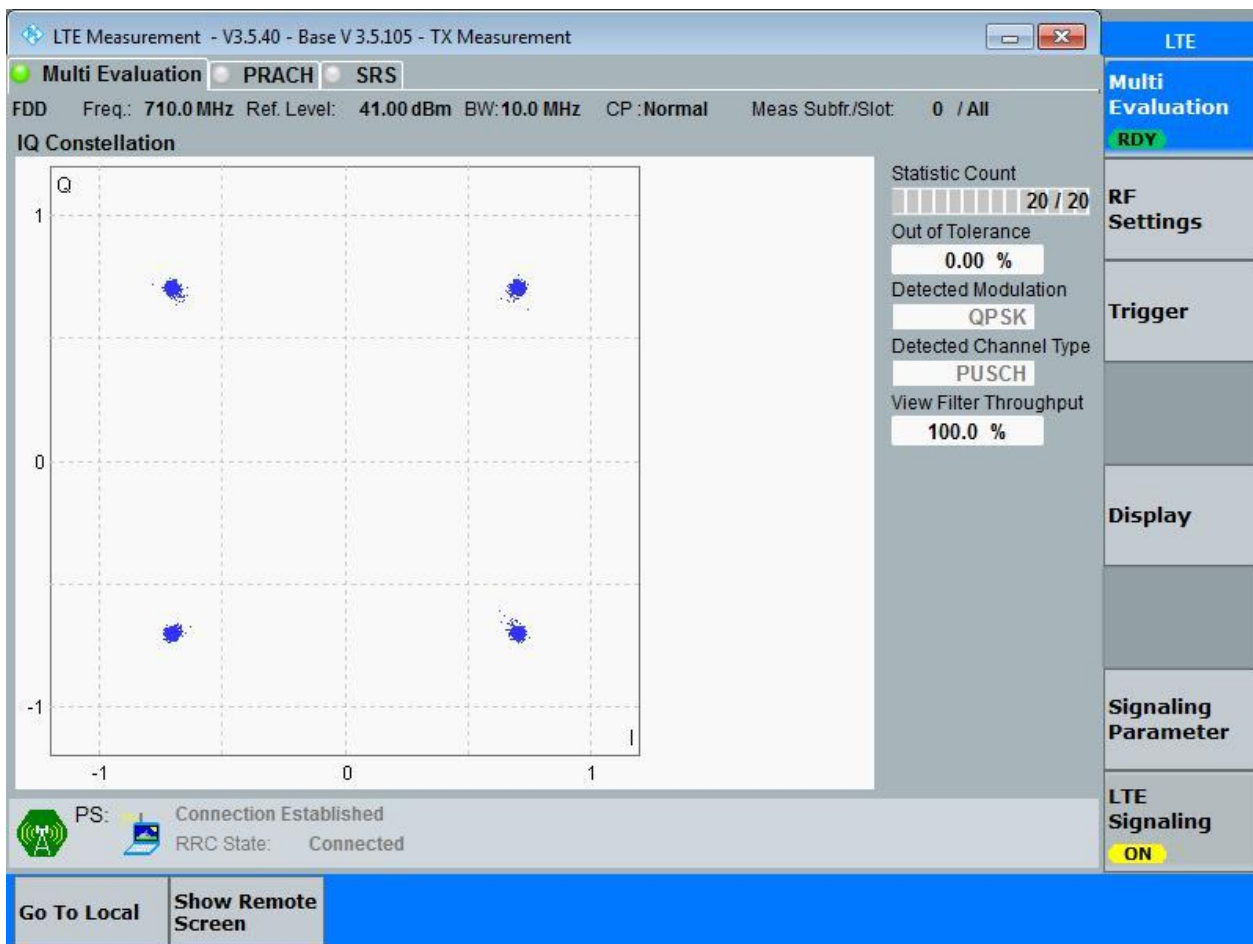
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

3.1.1.1.2.1.1 Test RB = RB50#0

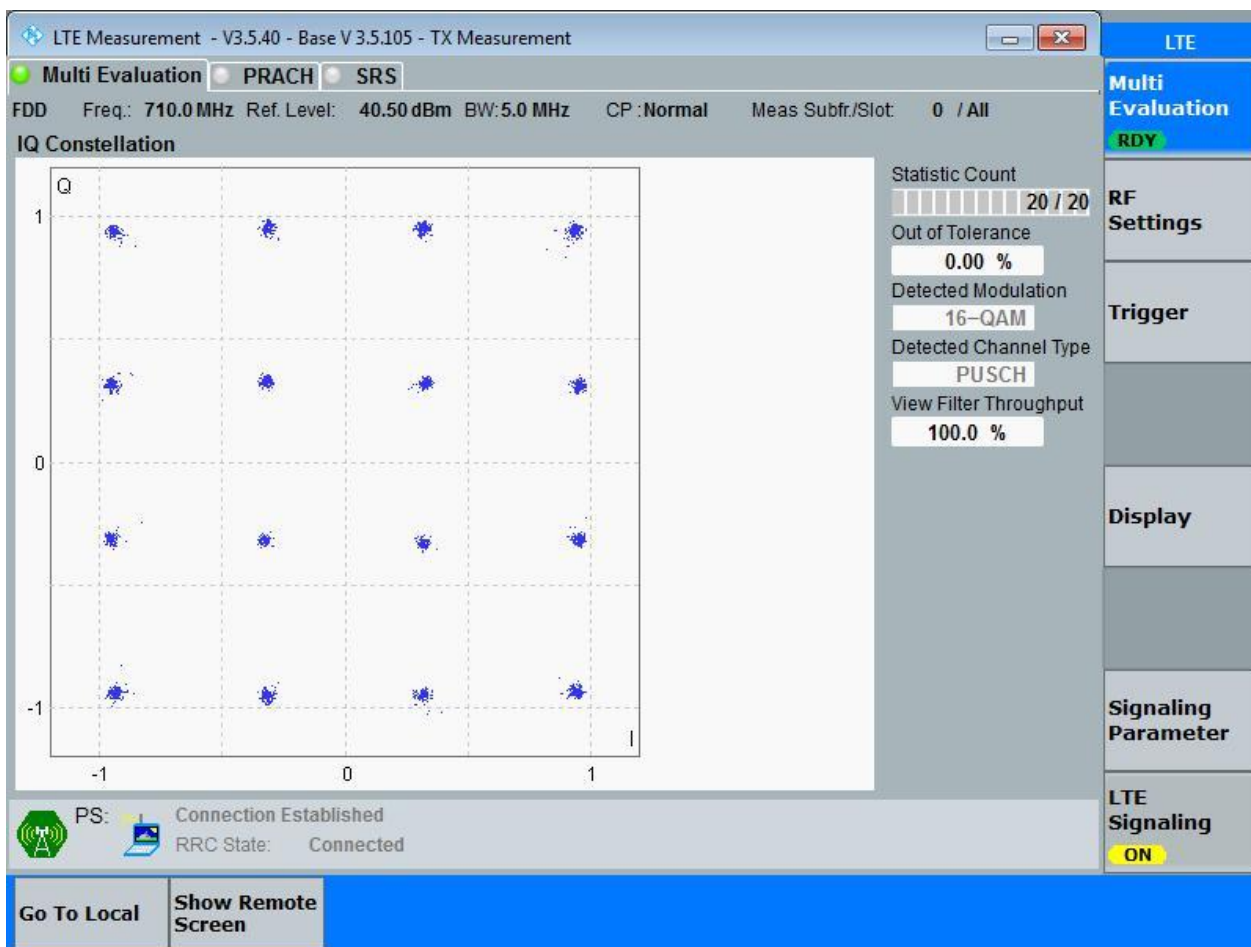


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

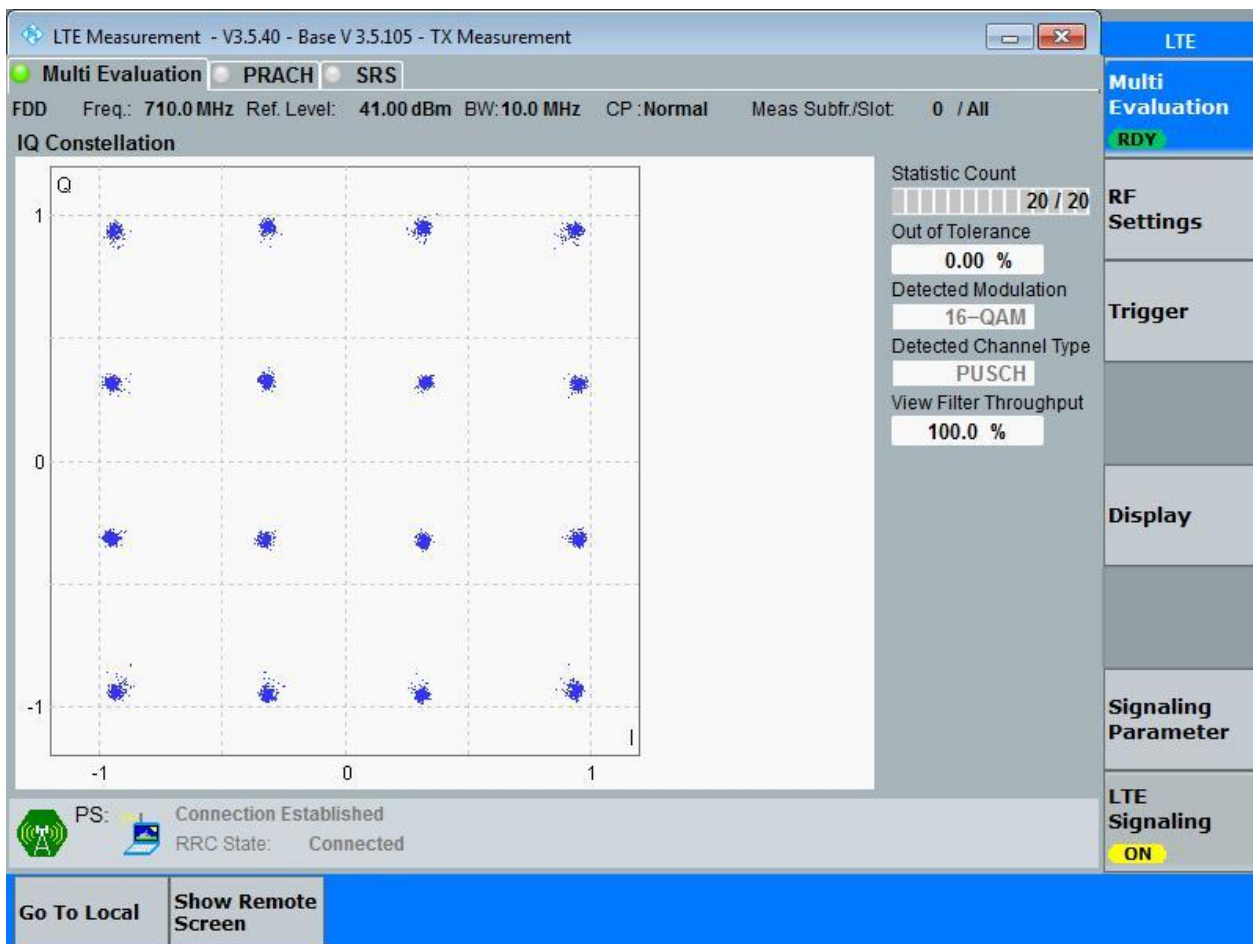
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

3.1.1.2.2.1.1 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
BAND17	LTE/TM1	5	LCH	RB25#0	4.52	5.00	Pass
			MCH	RB25#0	4.52	4.97	Pass
			HCH	RB25#0	4.49	4.96	Pass
		10	LCH	RB50#0	9.04	9.94	Pass
			MCH	RB50#0	9.04	9.97	Pass
			HCH	RB50#0	9.01	9.99	Pass
	LTE/TM2	5	LCH	RB25#0	4.51	4.98	Pass
			MCH	RB25#0	4.52	4.98	Pass
			HCH	RB25#0	4.50	4.96	Pass
		10	LCH	RB50#0	9.05	9.99	Pass
			MCH	RB50#0	9.06	10.02	Pass
			HCH	RB50#0	9.03	9.95	Pass



Part II - Test Plots

4.1 For LTE

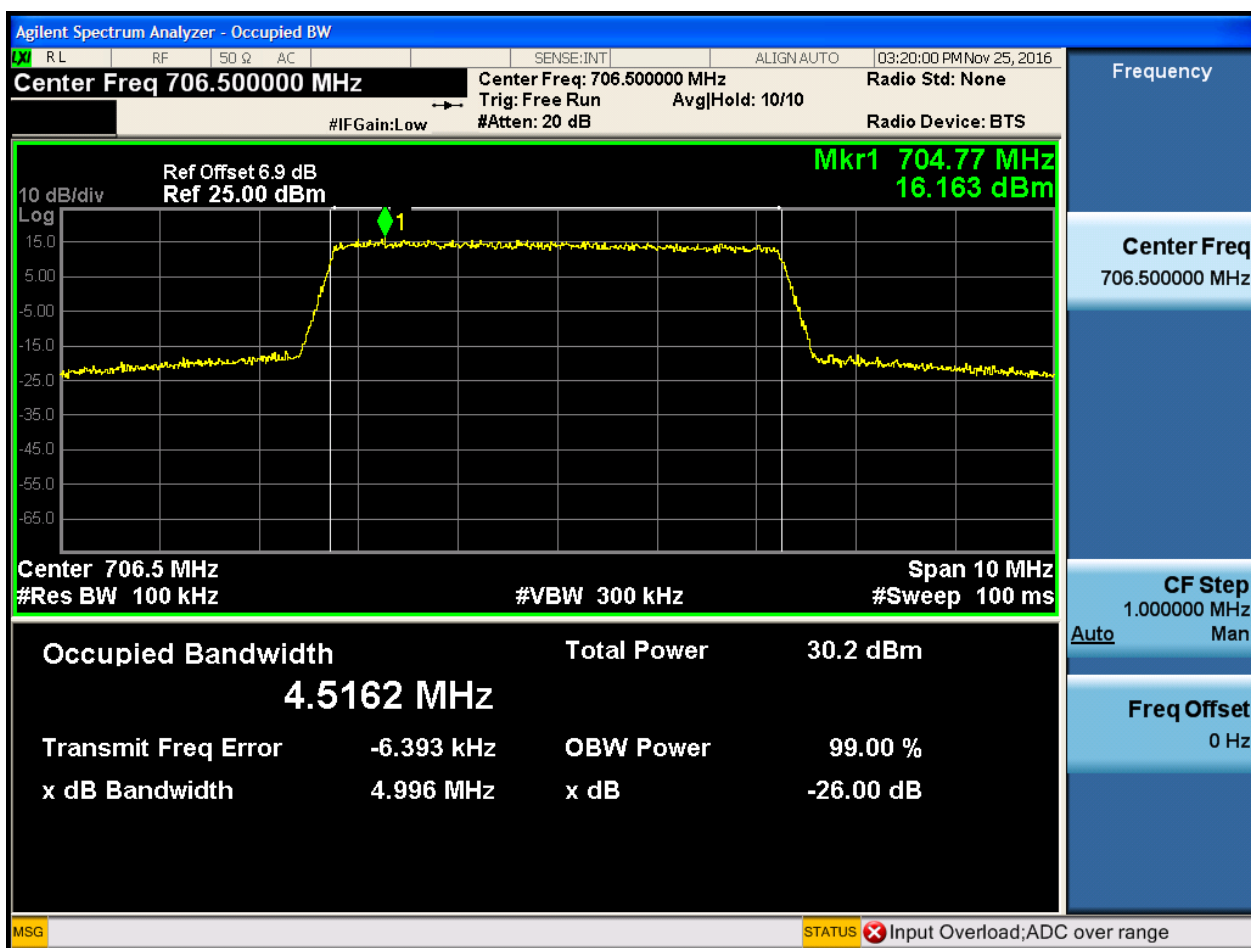
4.1.1 Test Band = BAND17

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5

4.1.1.1.1.1 Test Channel = LCH

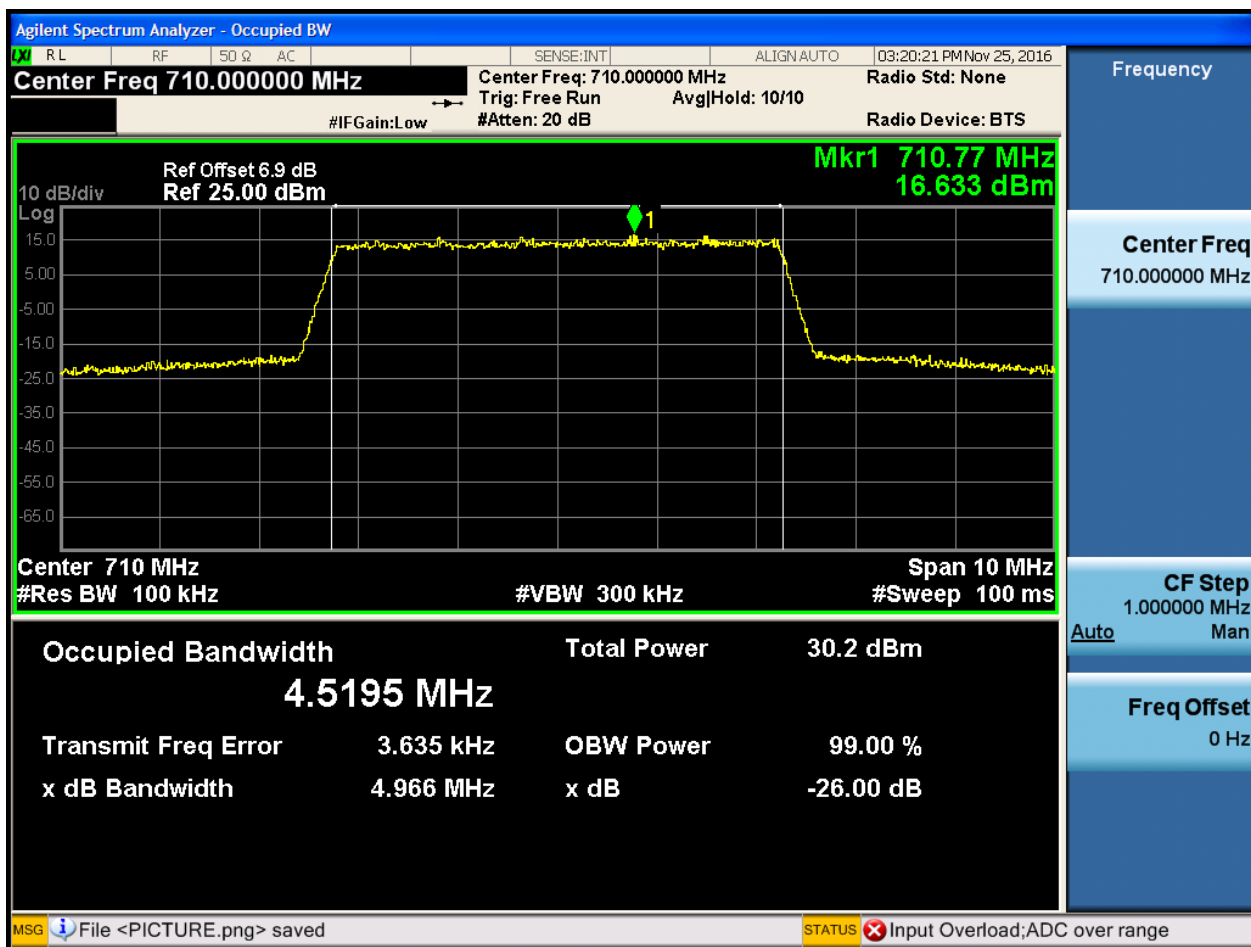
4.1.2.1.1.1.1 Test RB = RB25#0





4.1.2.1.1.2 Test Channel = MCH

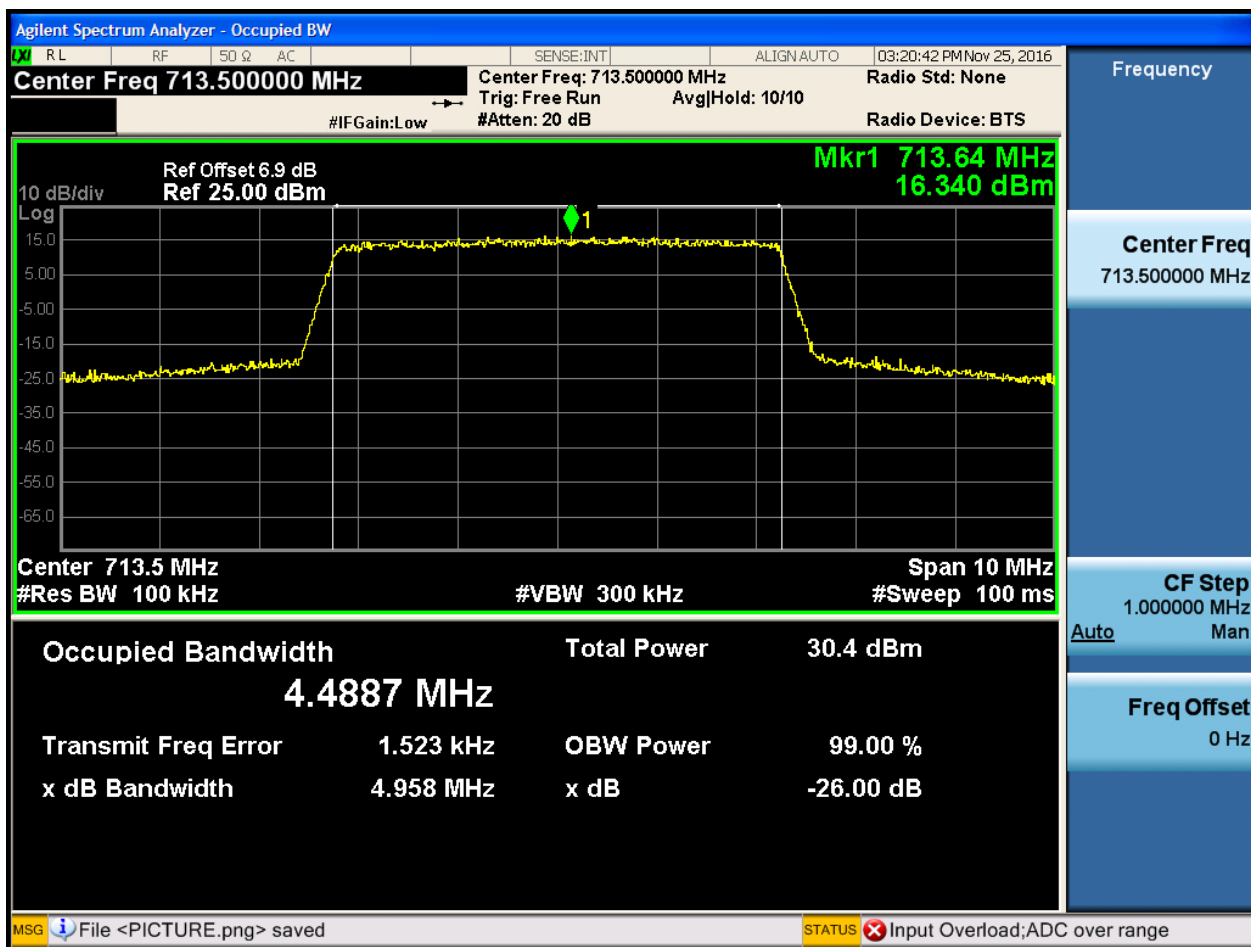
4.1.2.1.1.2.1 Test RB = RB25#0





4.1.2.1.1.3 Test Channel = HCH

4.1.2.1.1.3.1 Test RB = RB25#0

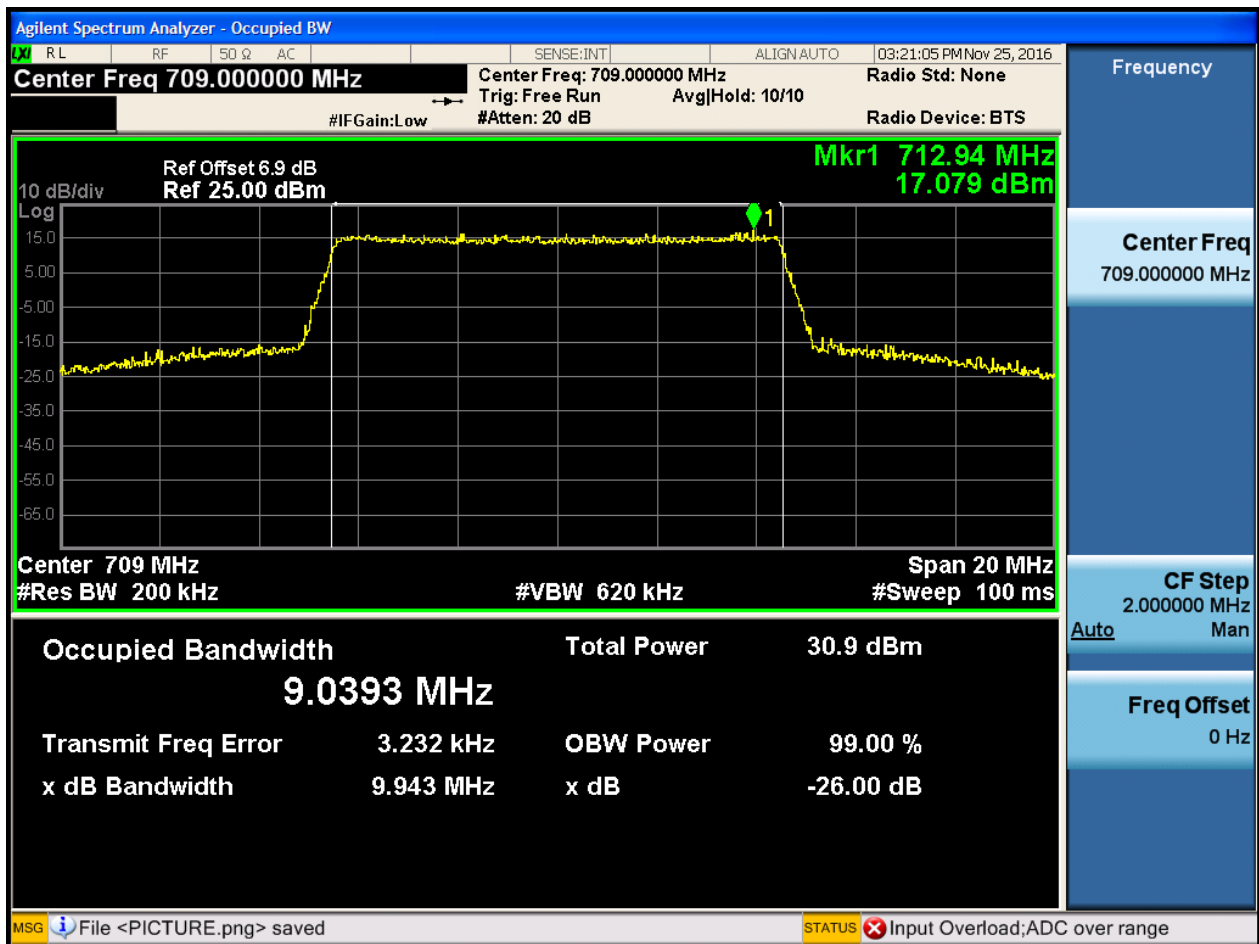




4.1.2.1.2 Test Bandwidth = 10

4.1.2.1.2.1 Test Channel = LCH

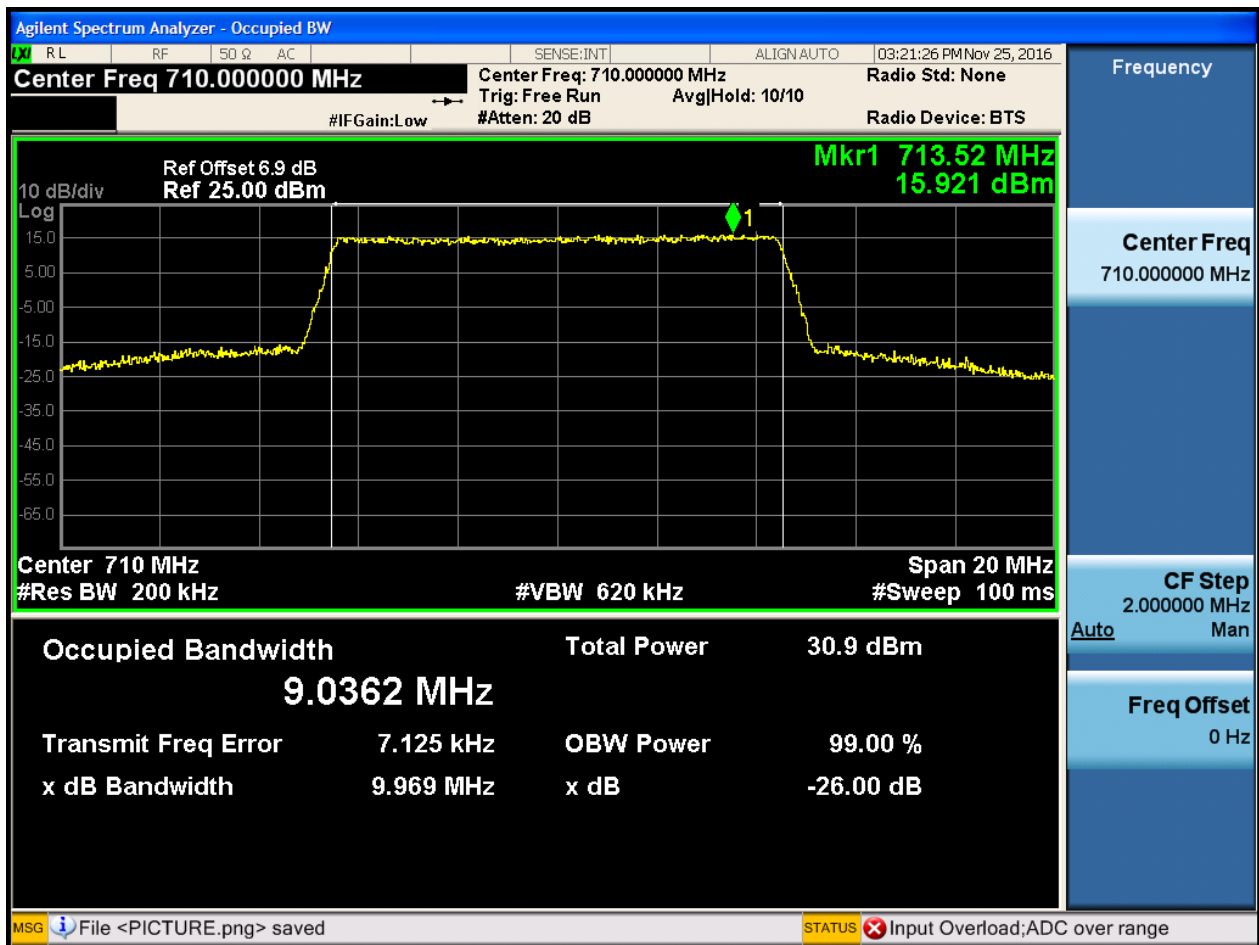
4.1.2.1.2.1.1 Test RB = RB50#0





4.1.2.1.2.2 Test Channel = MCH

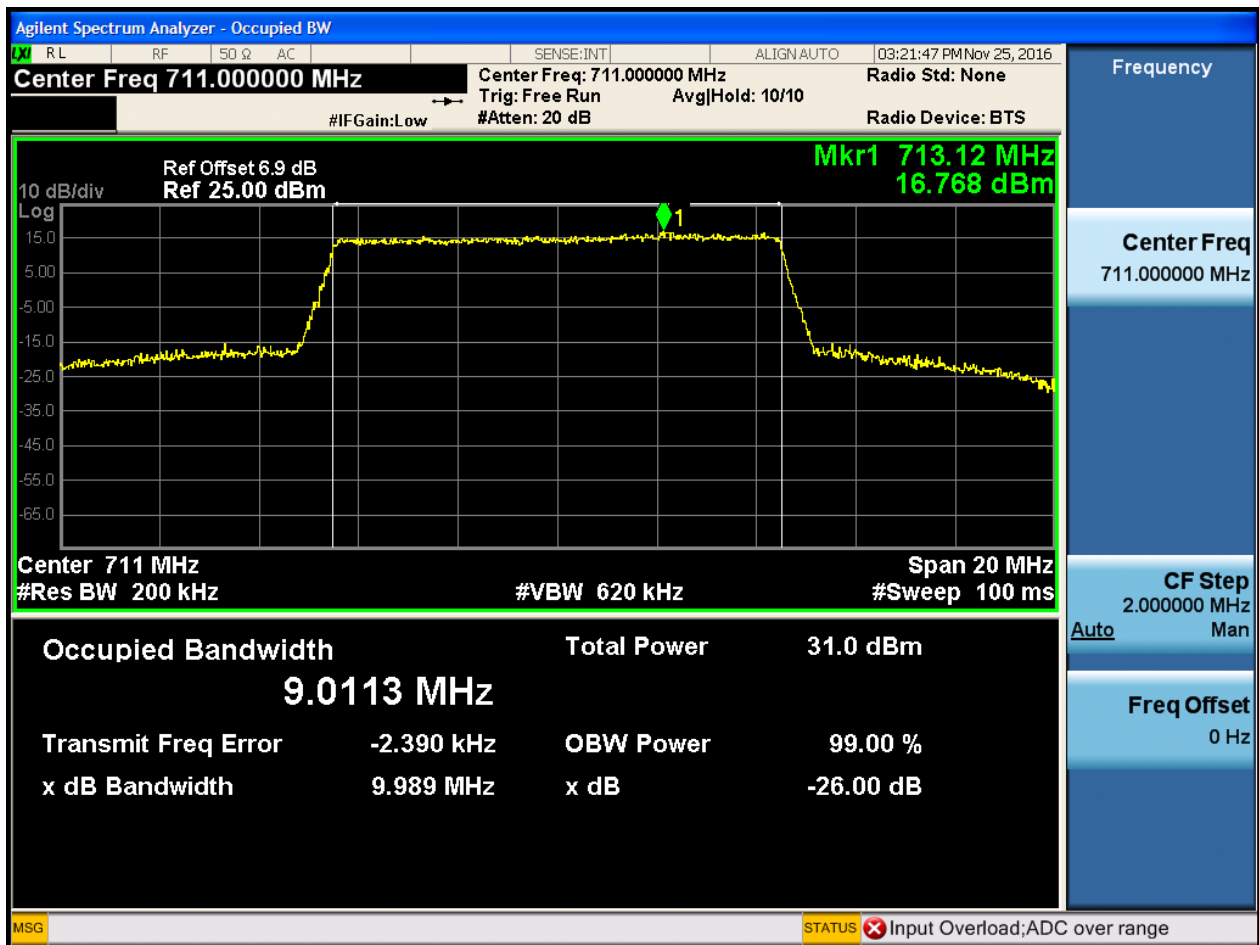
4.1.2.1.2.2.1 Test RB = RB50#0





4.1.2.1.2.3 Test Channel = HCH

4.1.2.1.2.3.1 Test RB = RB50#0

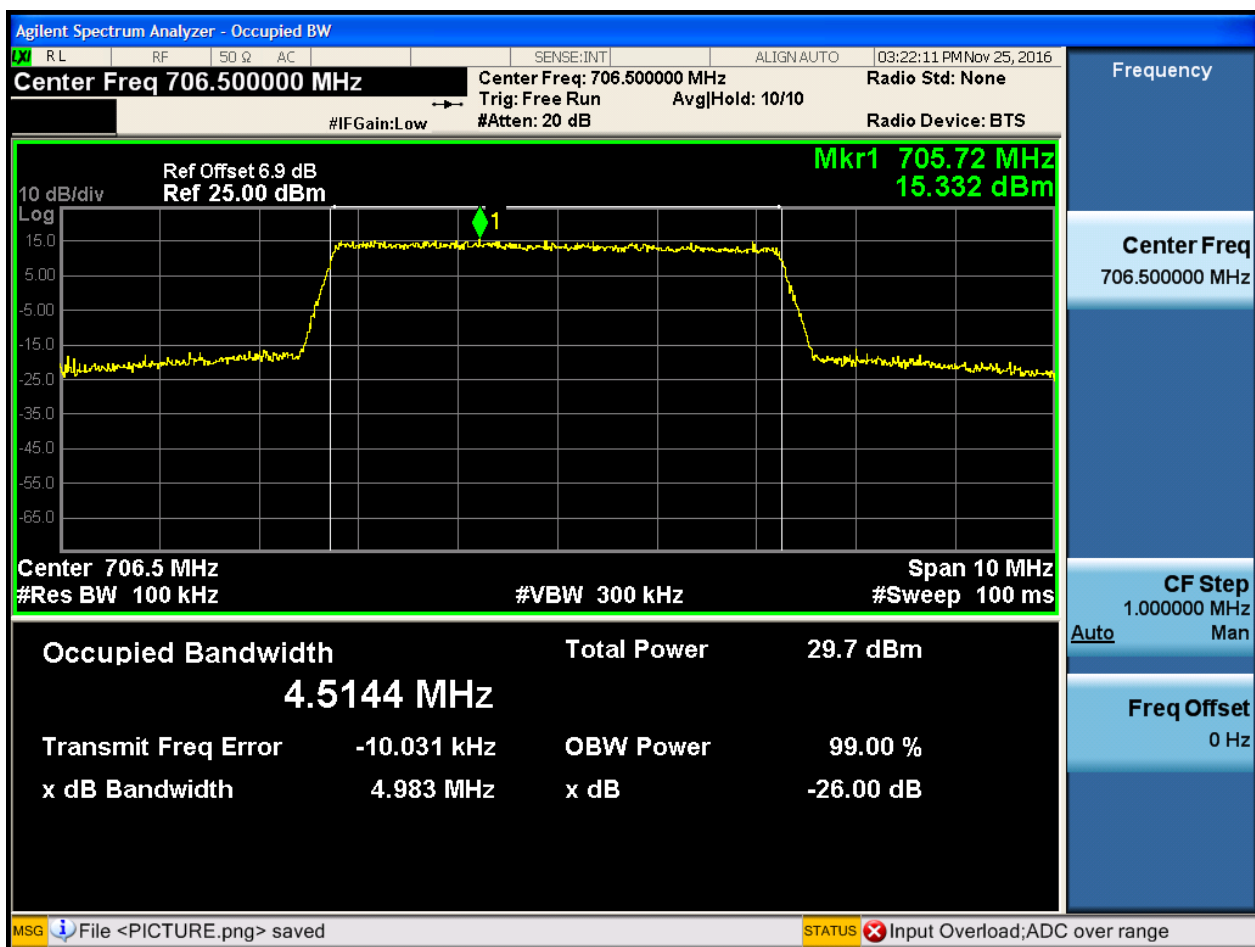


4.1.2.2 Test Mode = LTE/TM2

4.1.2.2.1 Test Bandwidth = 5

4.1.2.2.1.1 Test Channel = LCH

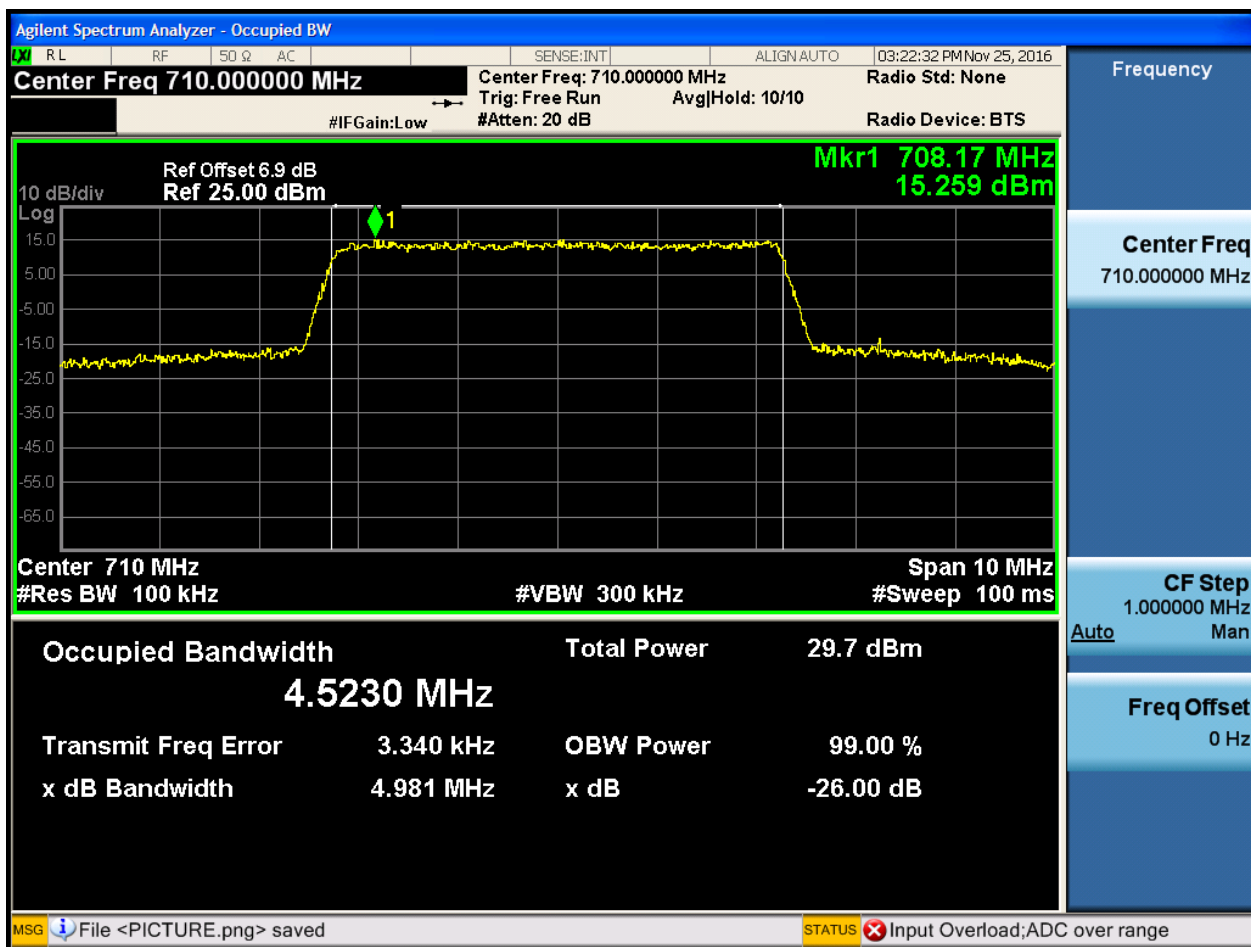
4.1.2.2.1.1.1 Test RB = RB25#0





4.1.2.2.1.2 Test Channel = MCH

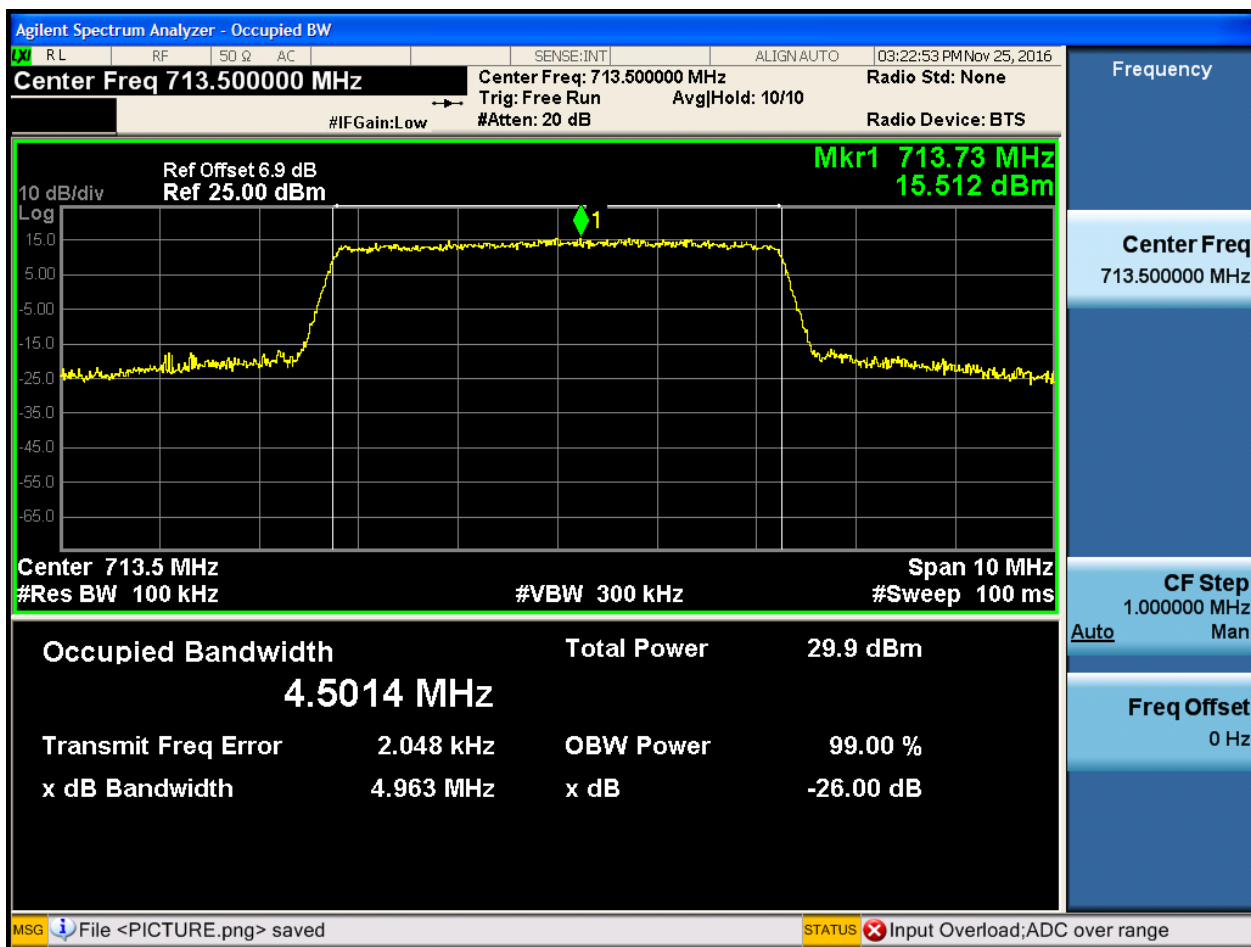
4.1.2.2.1.2.1 Test RB = RB25#0





4.1.2.2.1.3 Test Channel = HCH

4.1.2.2.1.3.1 Test RB = RB25#0

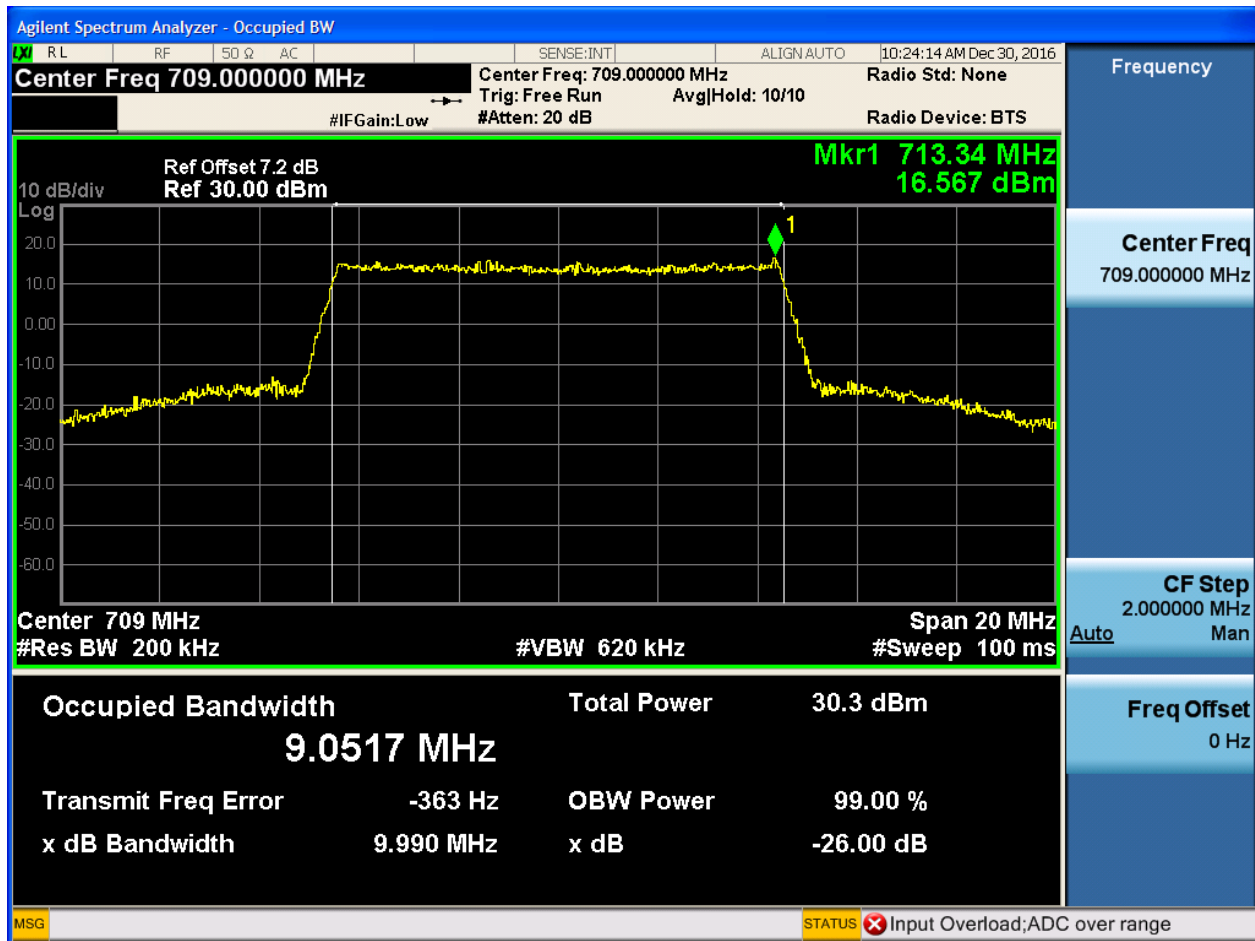




4.1.2.2.2 Test Bandwidth = 10

4.1.2.2.2.1 Test Channel = LCH

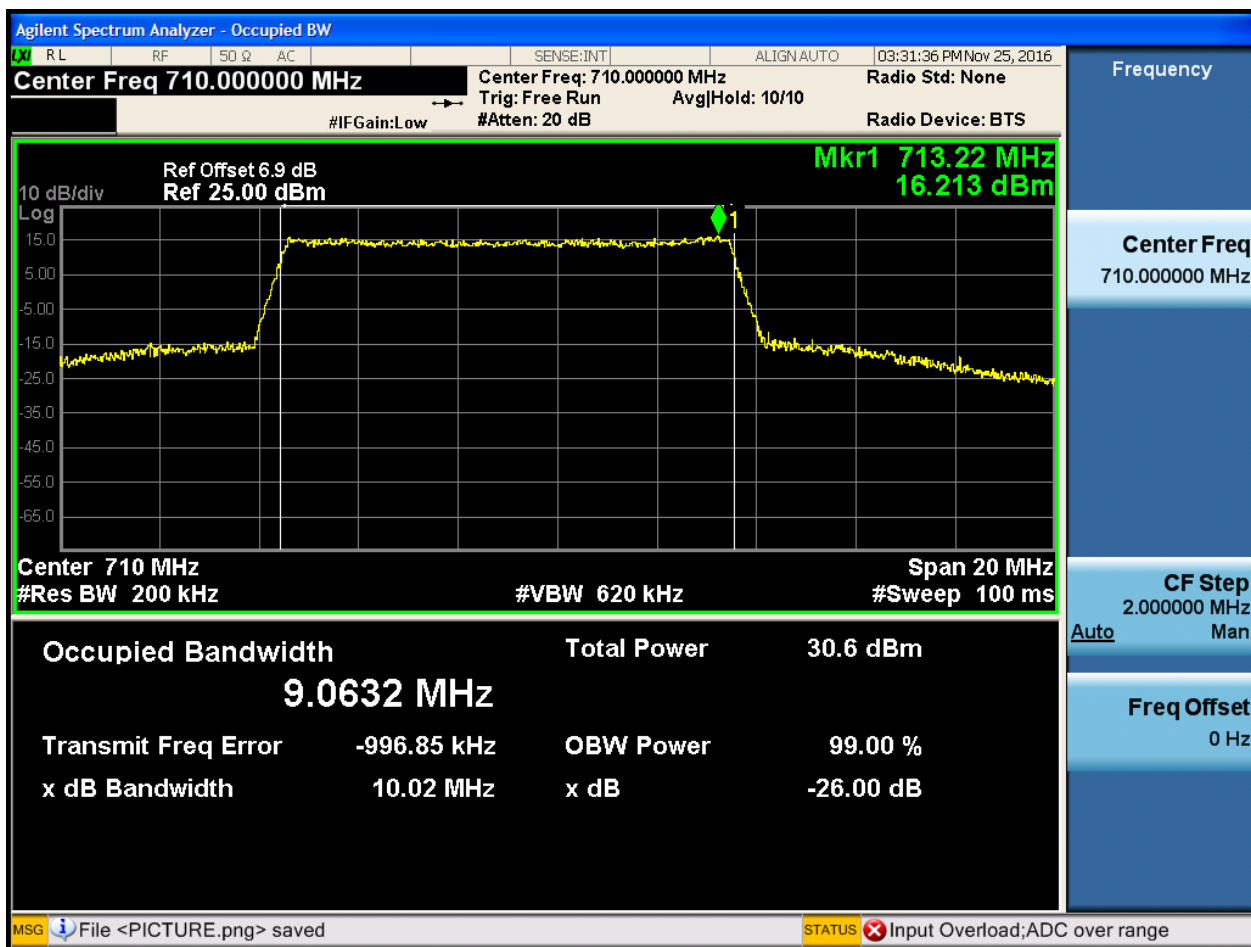
4.1.2.2.2.1.1 Test RB = RB50#0





4.1.2.2.2 Test Channel = MCH

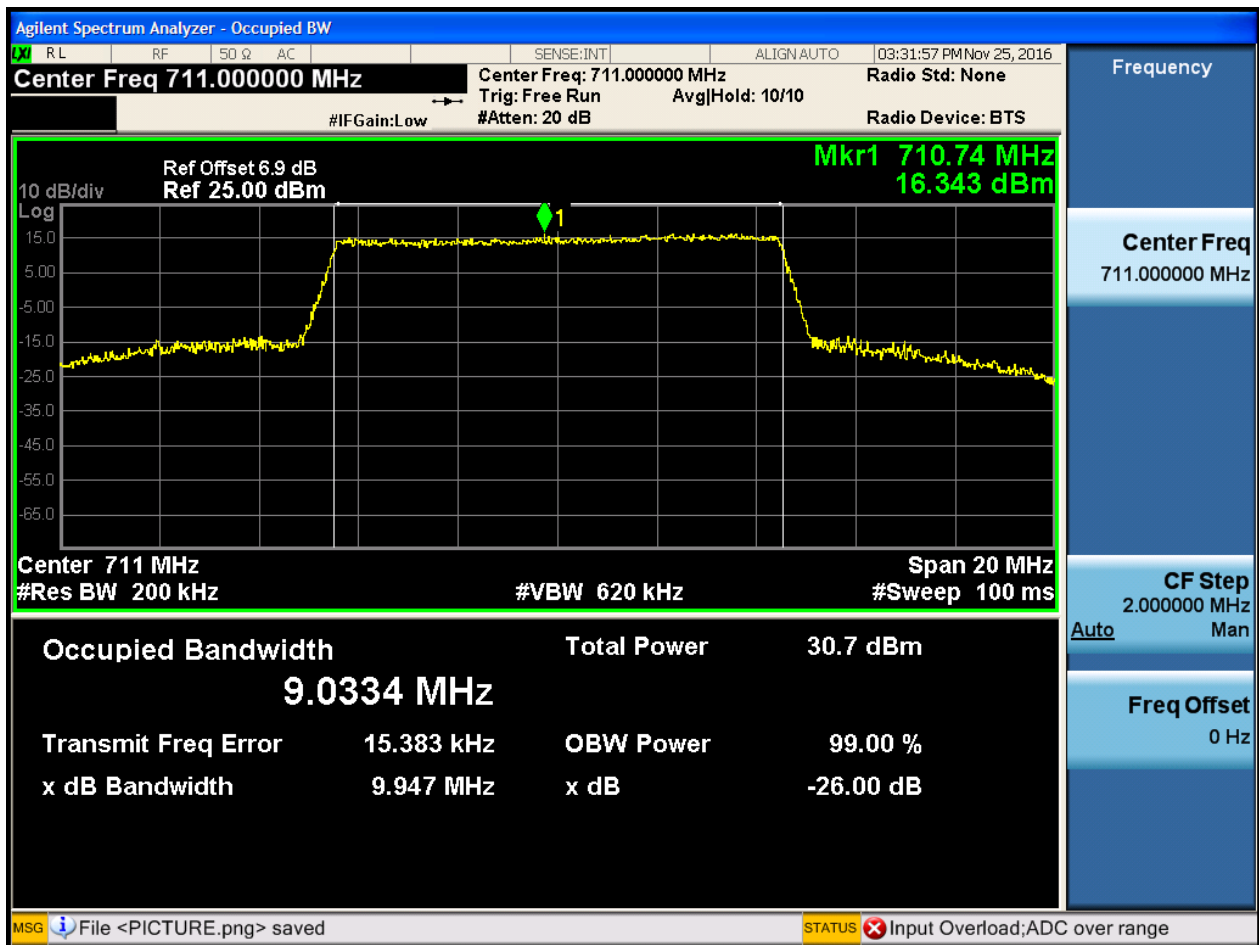
4.1.2.2.2.1 Test RB = RB50#0





4.1.2.2.2.3 Test Channel = HCH

4.1.2.2.2.3.1 Test RB = RB50#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

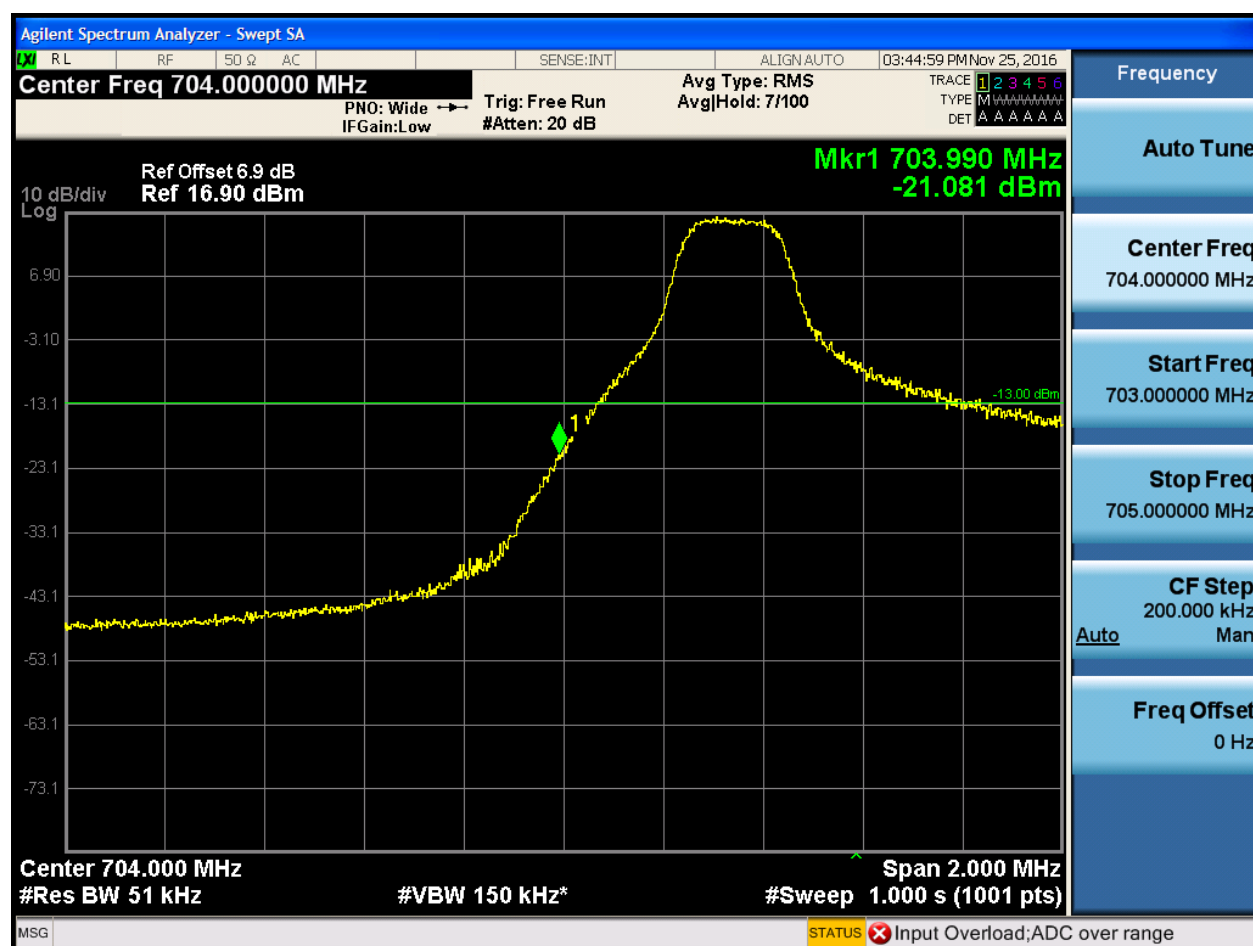
5.1.1 Test Band = BAND17

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 03:45:12 PM Nov 25, 2016

Center Freq 704.000000 MHz Avg Type: RMS
PNO: Wide IF Gain: Low Trig: Free Run AvgHold: 7/100
#Atten: 20 dB

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

Ref Offset 6.9 dB
Ref 16.90 dBm

Mkr1 704.000 MHz
-35.795 dBm

10 dB/div
Log

6.90
-3.10
-13.1
-23.1
-33.1
-43.1
-53.1
-63.1
-73.1

-13.00 dBm

Center 704.000 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
704.000000 MHz

Start Freq
703.000000 MHz

Stop Freq
705.000000 MHz

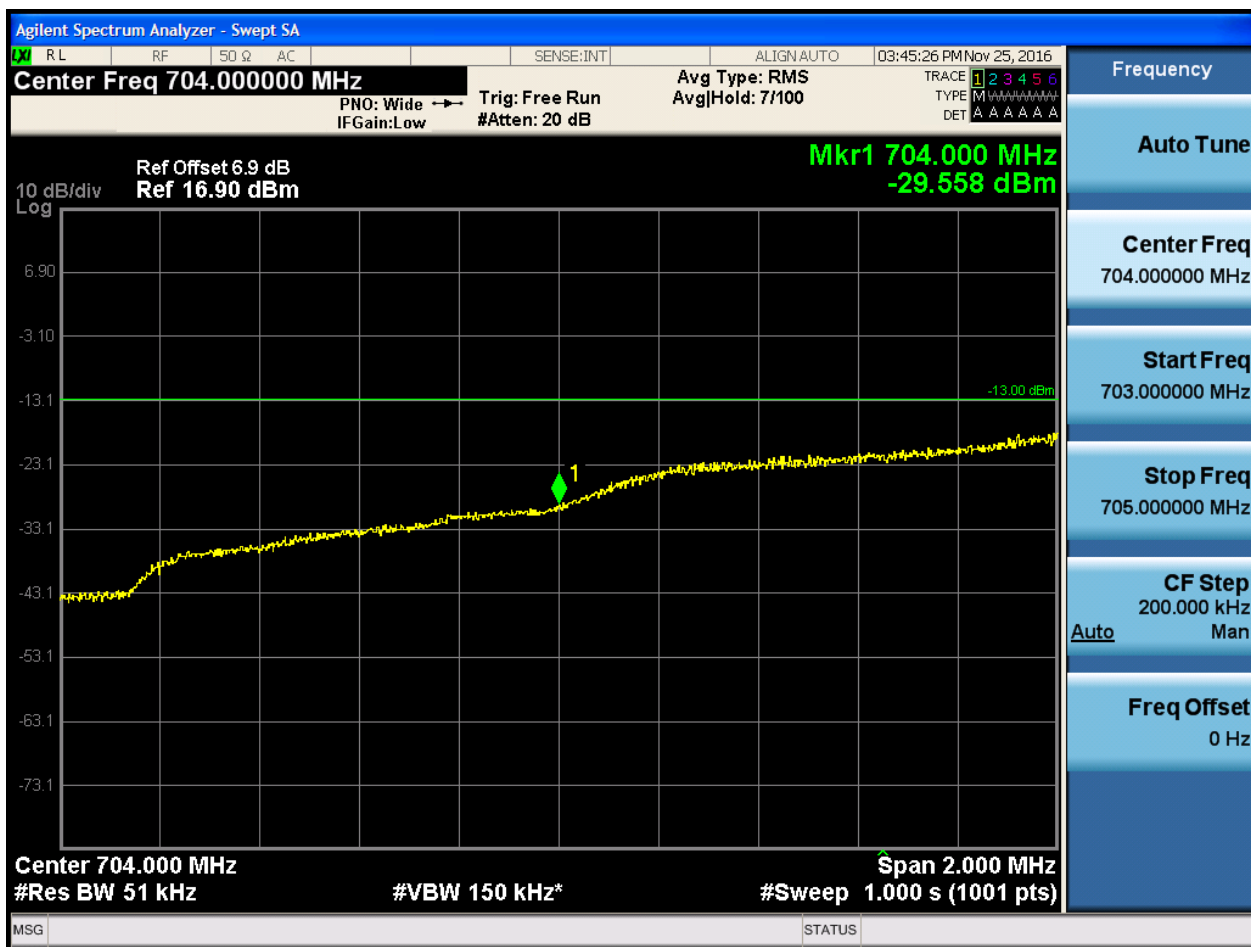
CF Step
200.000 kHz
Man

Auto

Freq Offset
0 Hz

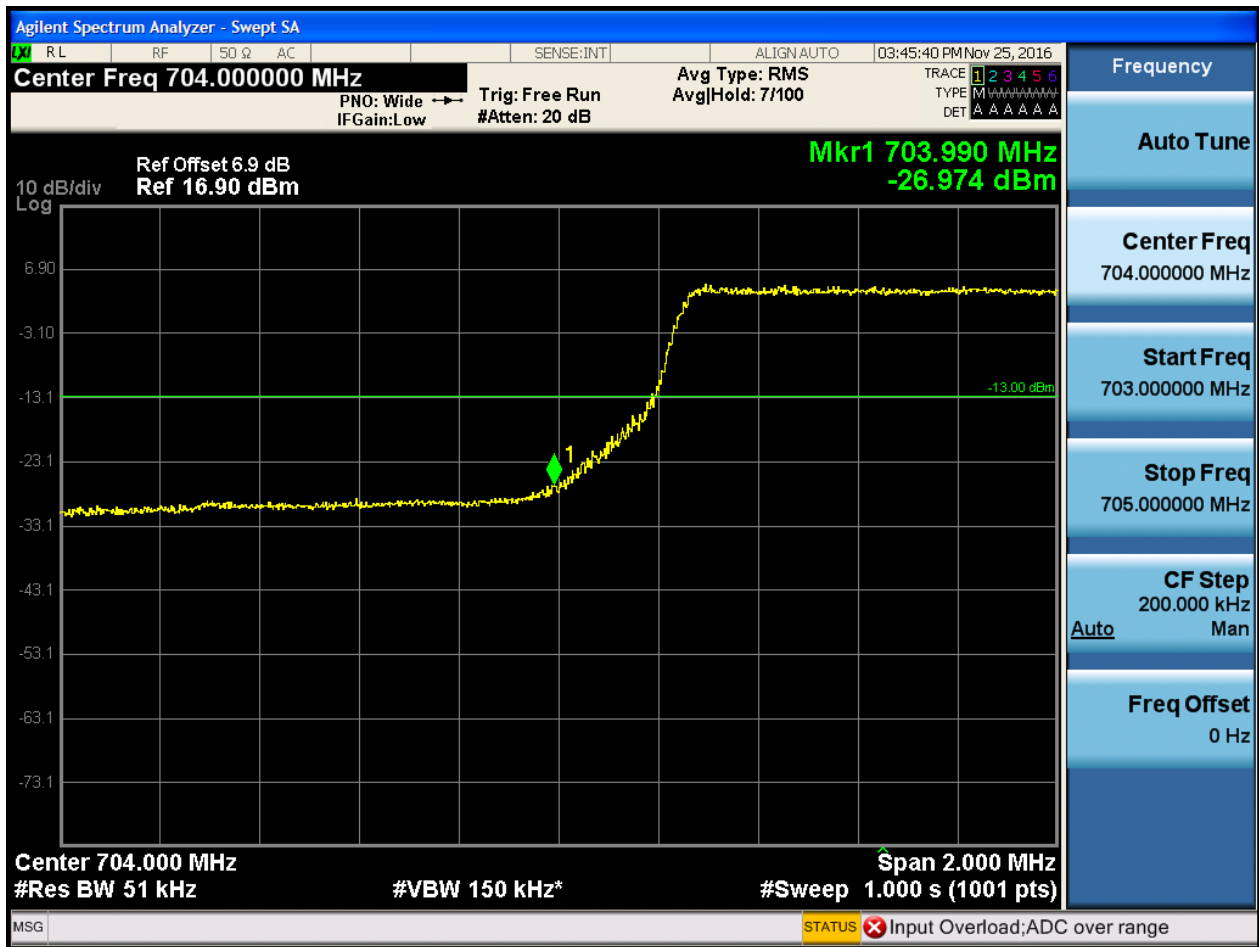


5.1.1.1.1.3 Test RB = RB12#6





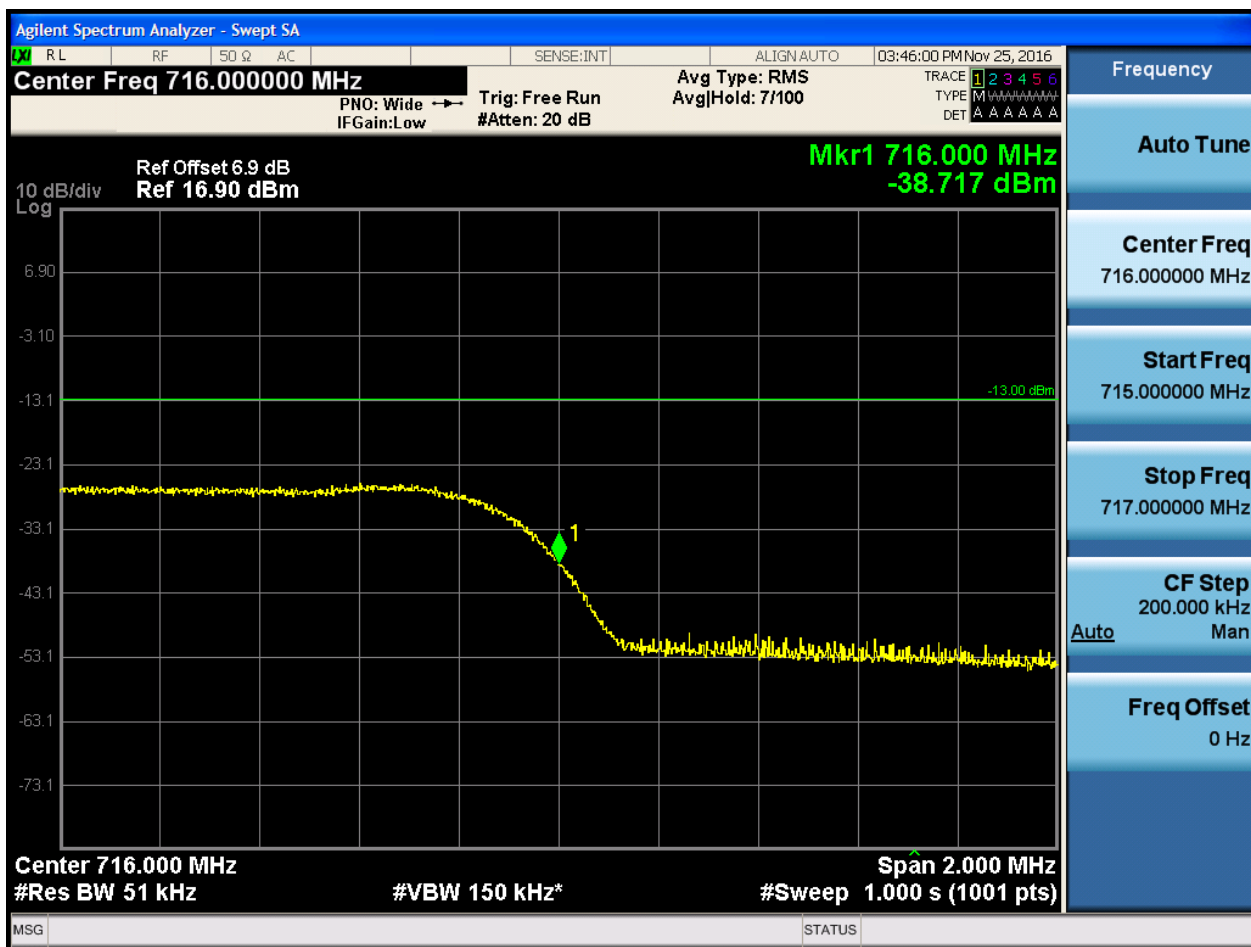
5.1.1.1.1.4 Test RB = RB25#0





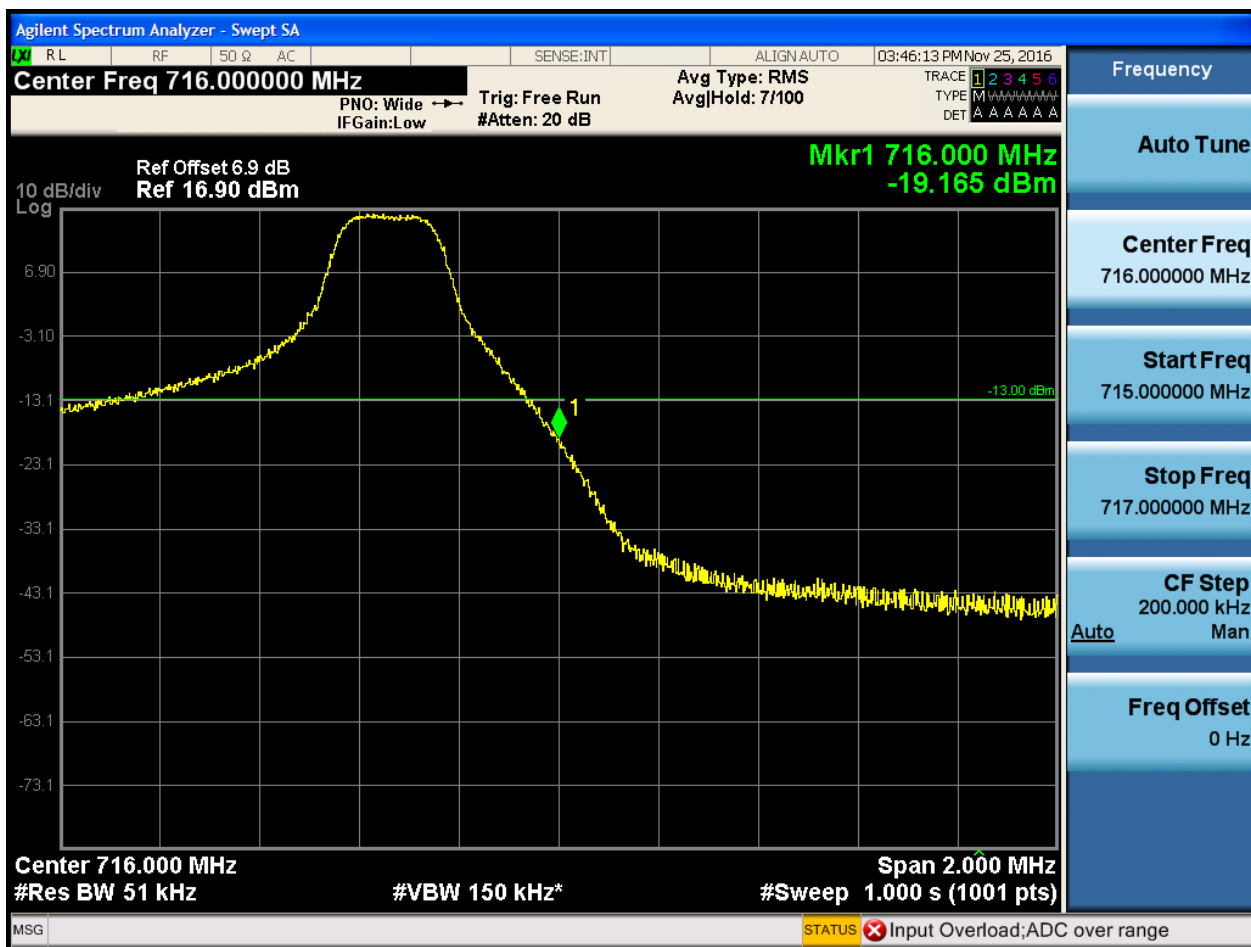
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





5.1.1.1.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:46:27 PM Nov 25, 2016

Center Freq 716.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7/100
#Atten: 20 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 6.9 dB
Ref 16.90 dBm

10 dB/div
Log

Mkr1 716.000 MHz
-31.729 dBm

-13.00 dBm

1

Center 716.000 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
716.000000 MHz

Start Freq
715.000000 MHz

Stop Freq
717.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.2.4 Test RB = RB25#0

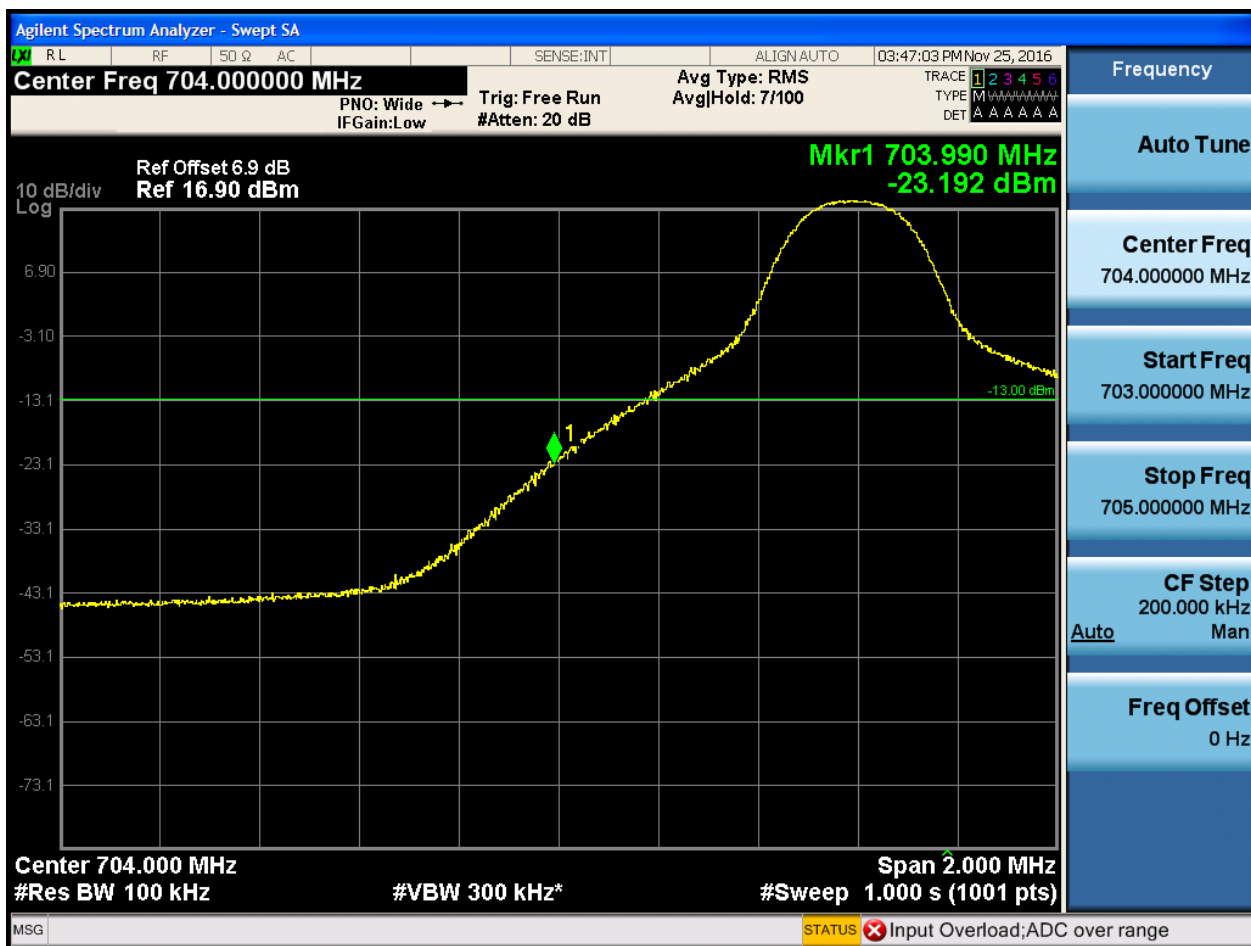




5.1.1.1.2 Test Bandwidth = 10

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 704.000000 MHz

Ref Offset 6.9 dB
Ref 16.90 dBm

10 dB/div
Log

6.90
-3.10
-13.1
-23.1
-33.1
-43.1
-53.1
-63.1
-73.1

Center 704.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Trig: Free Run
#Atten: 20 dB

Avg Type: RMS
Avg/Hold: 7/100

Frequency

Auto Tune

Center Freq
704.000000 MHz

Start Freq
703.000000 MHz

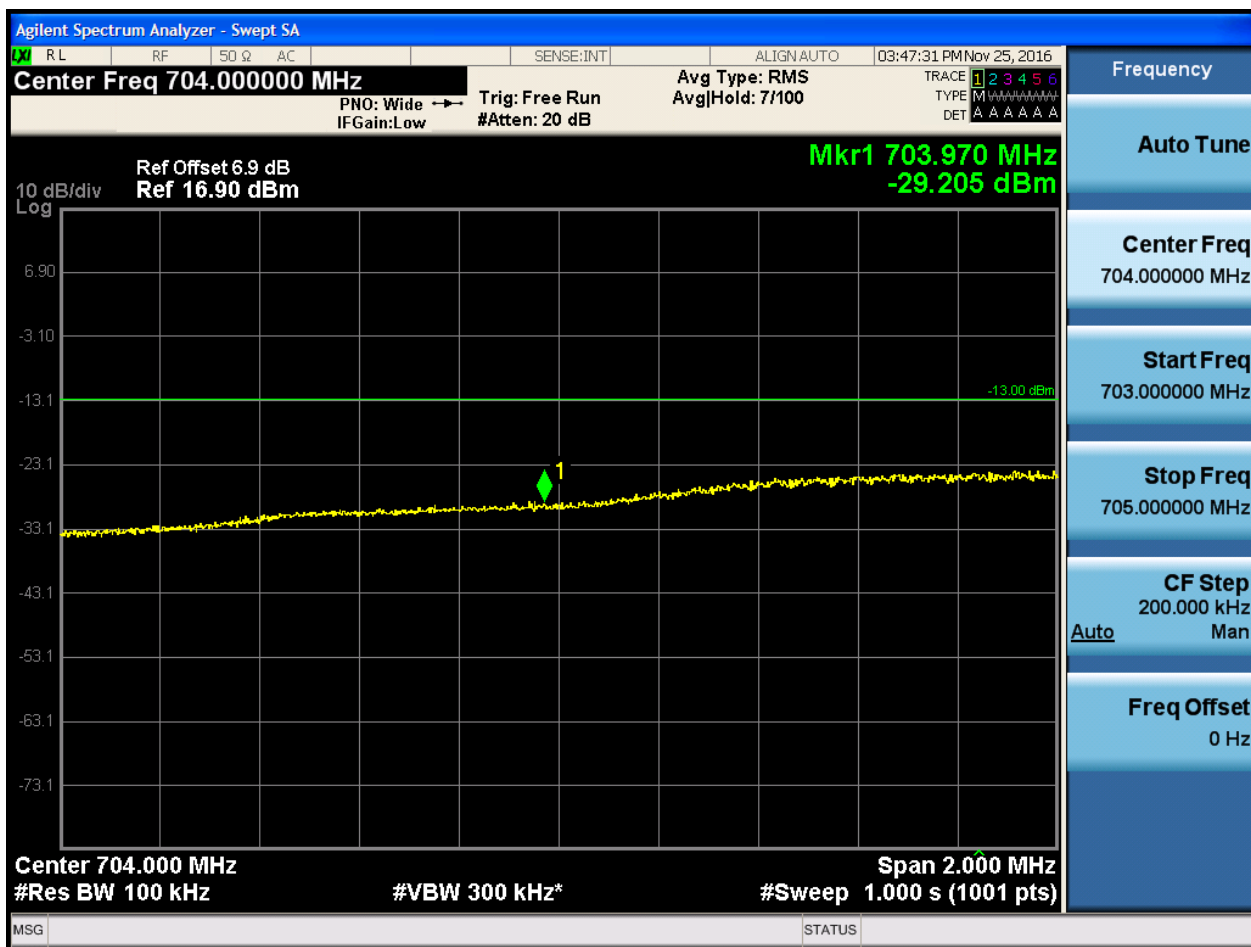
Stop Freq
705.000000 MHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

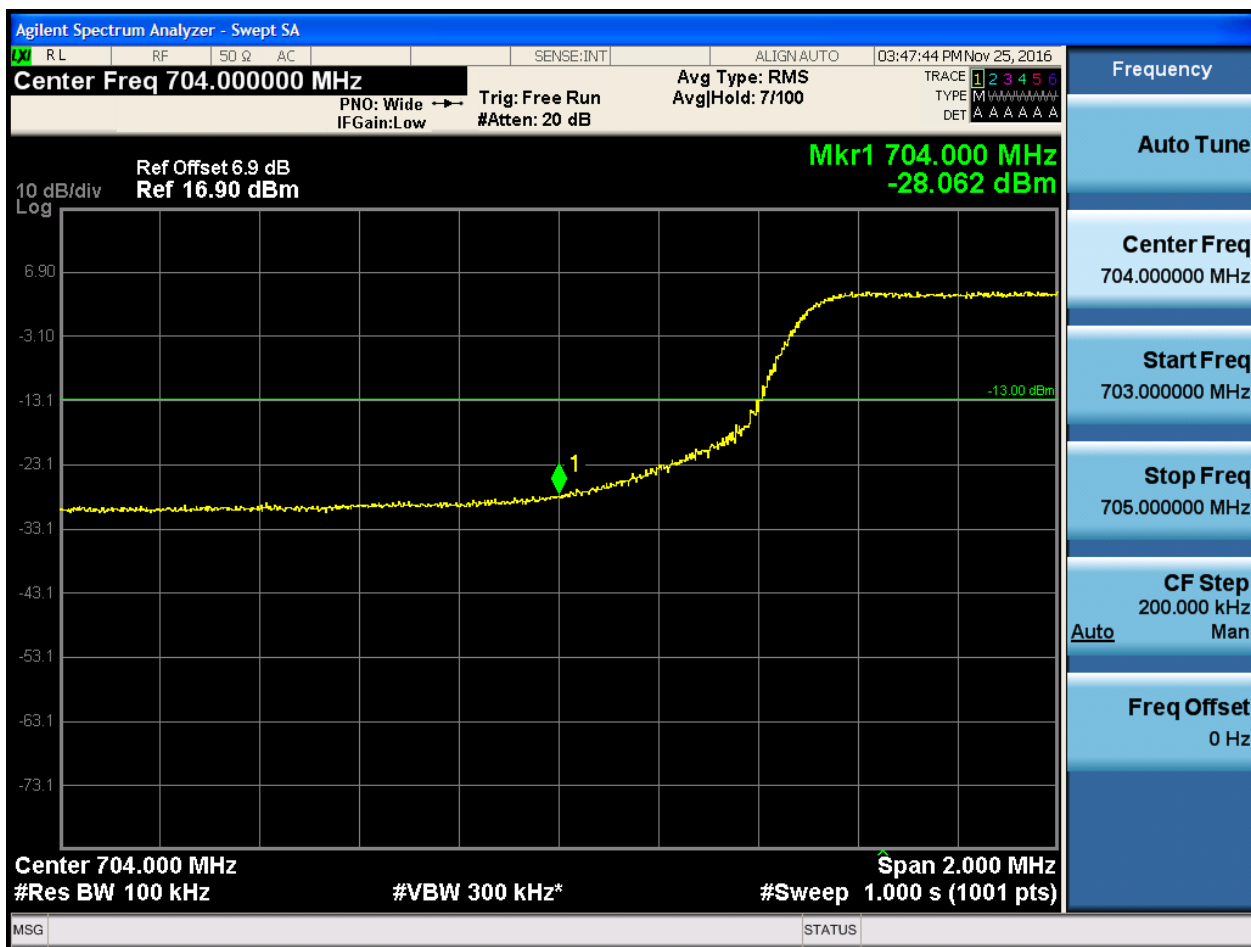
MSG STATUS

5.1.1.1.2.1.3 Test RB = RB25#13





5.1.1.1.2.1.4 Test RB = RB50#0



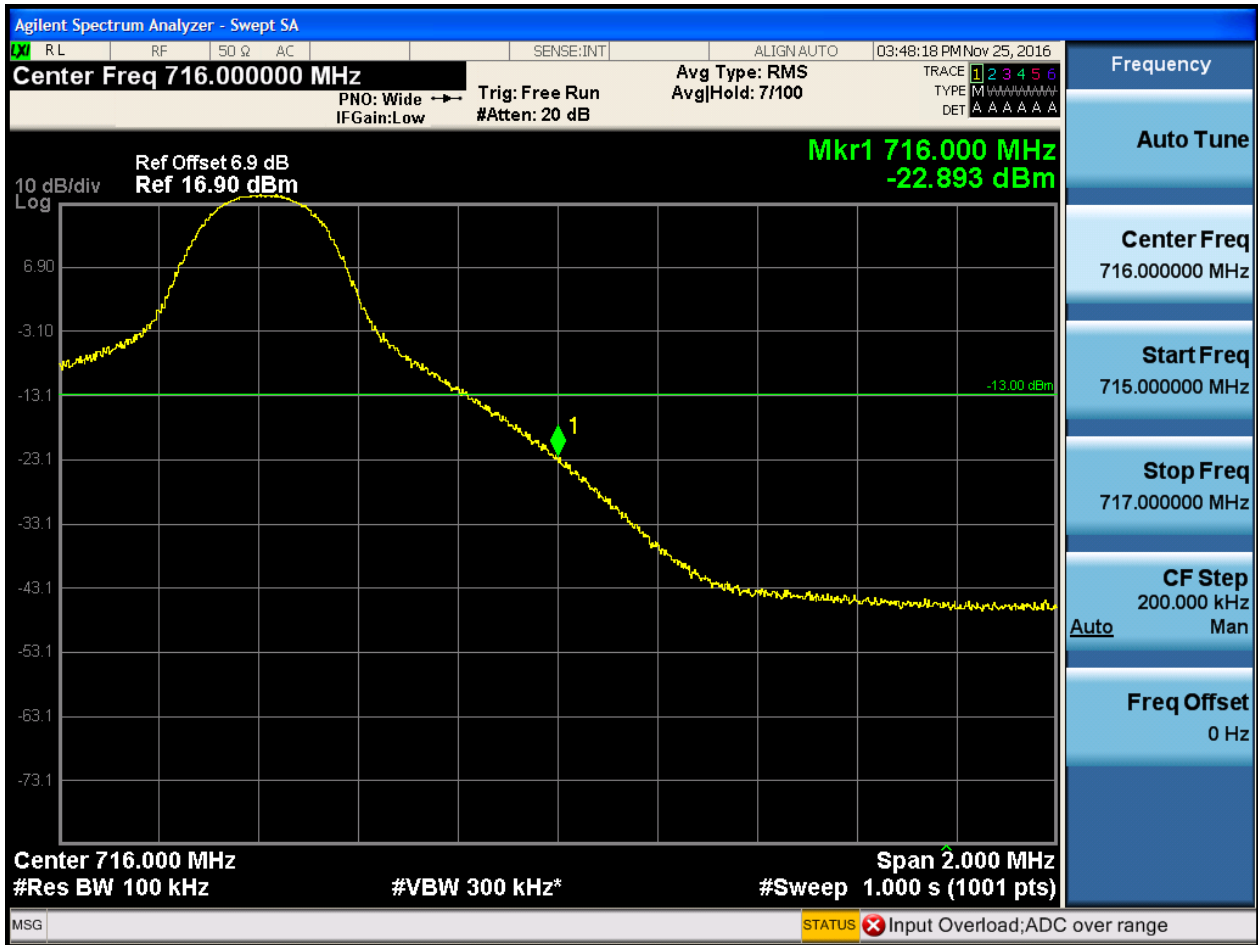


5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0

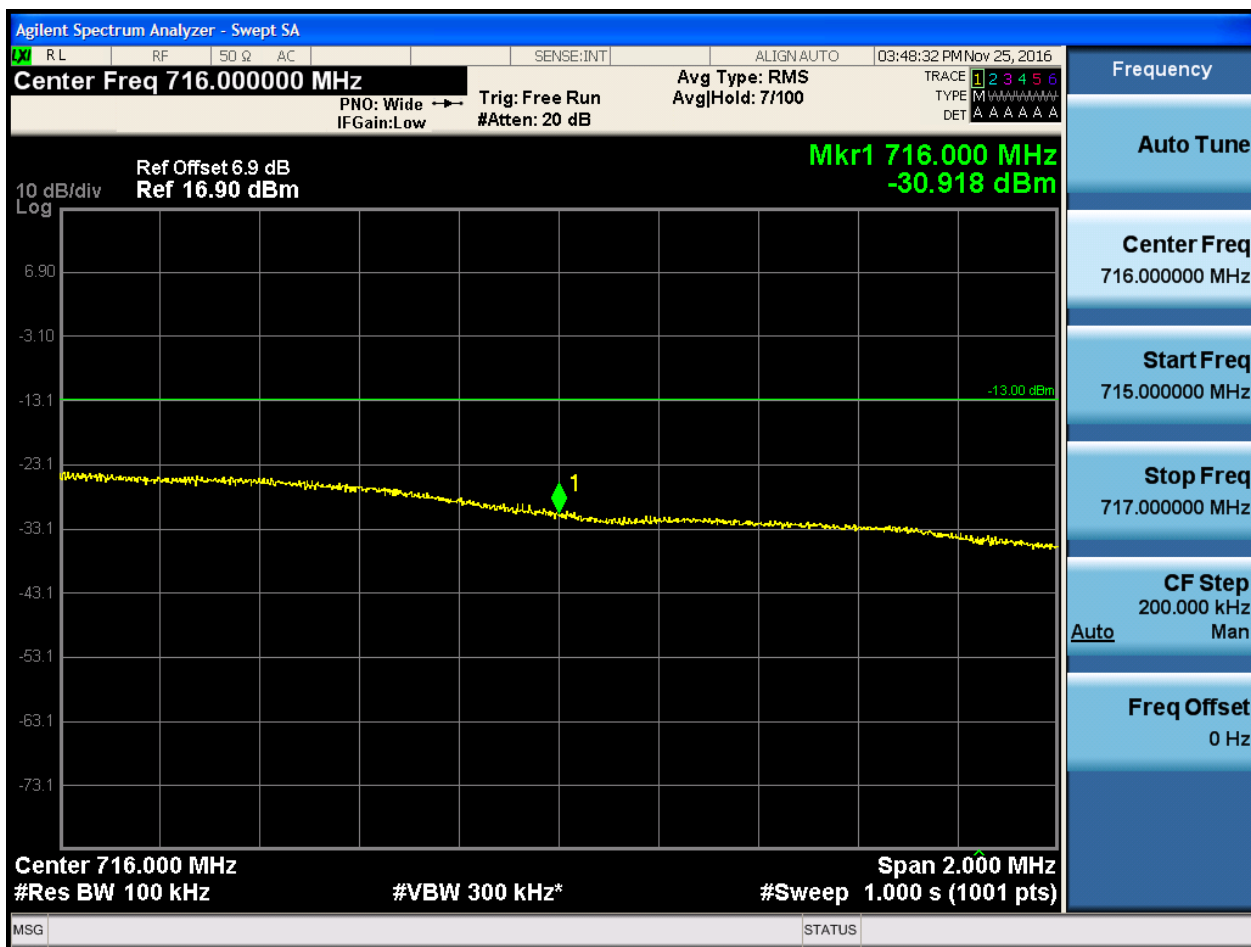


5.1.1.1.2.2.2 Test RB = RB1#49



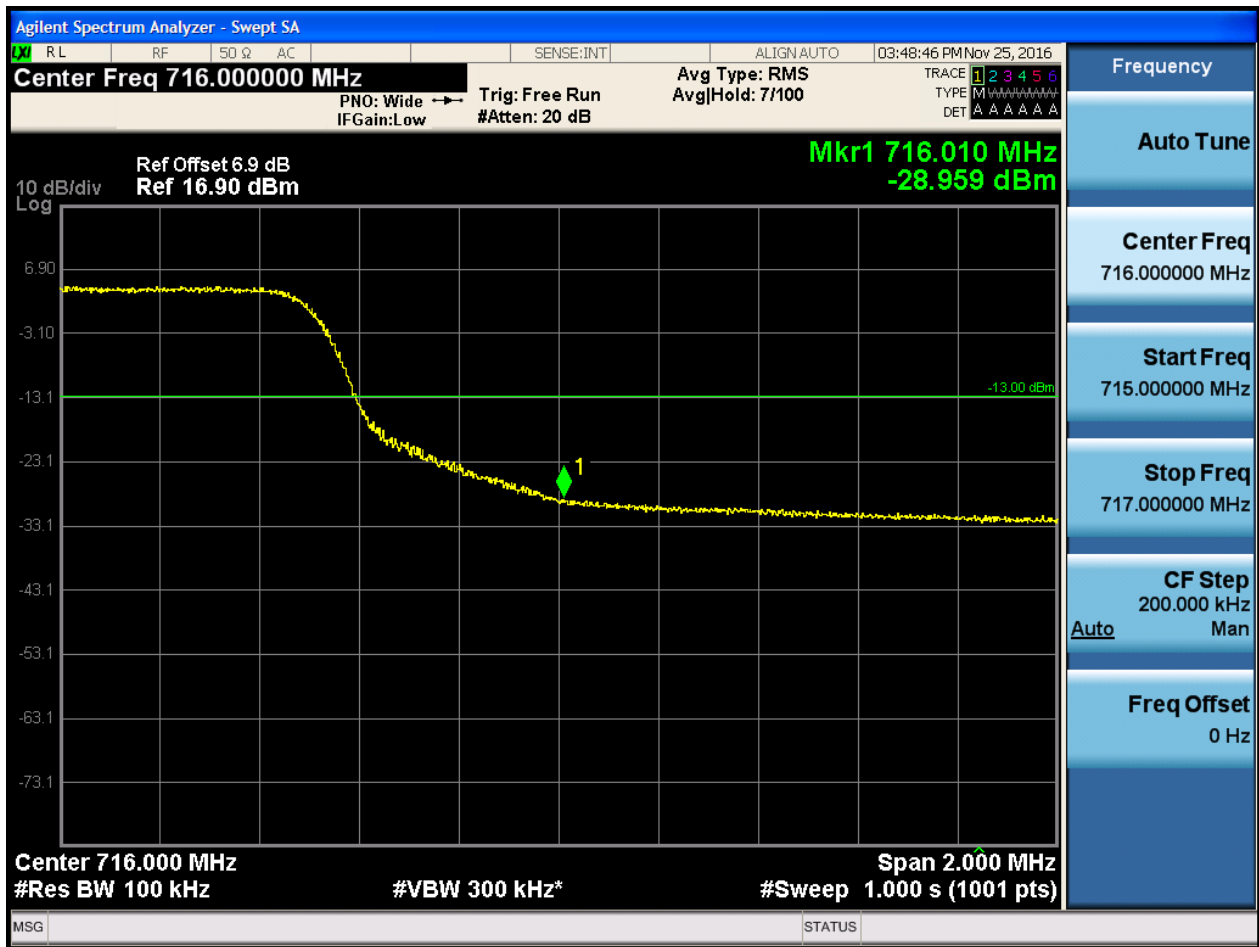


5.1.1.1.2.2.3 Test RB = RB25#13





5.1.1.1.2.2.4 Test RB = RB50#0



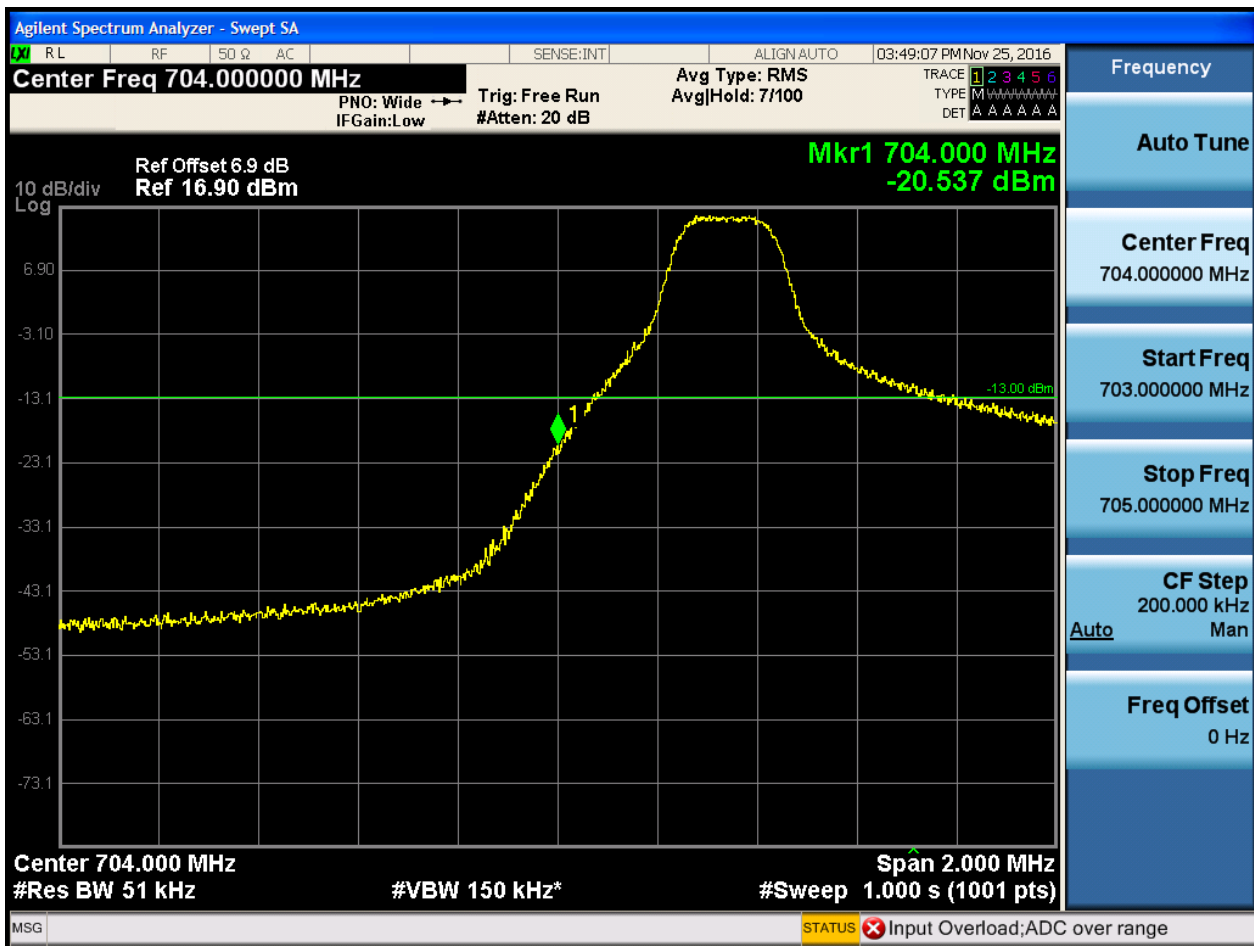


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

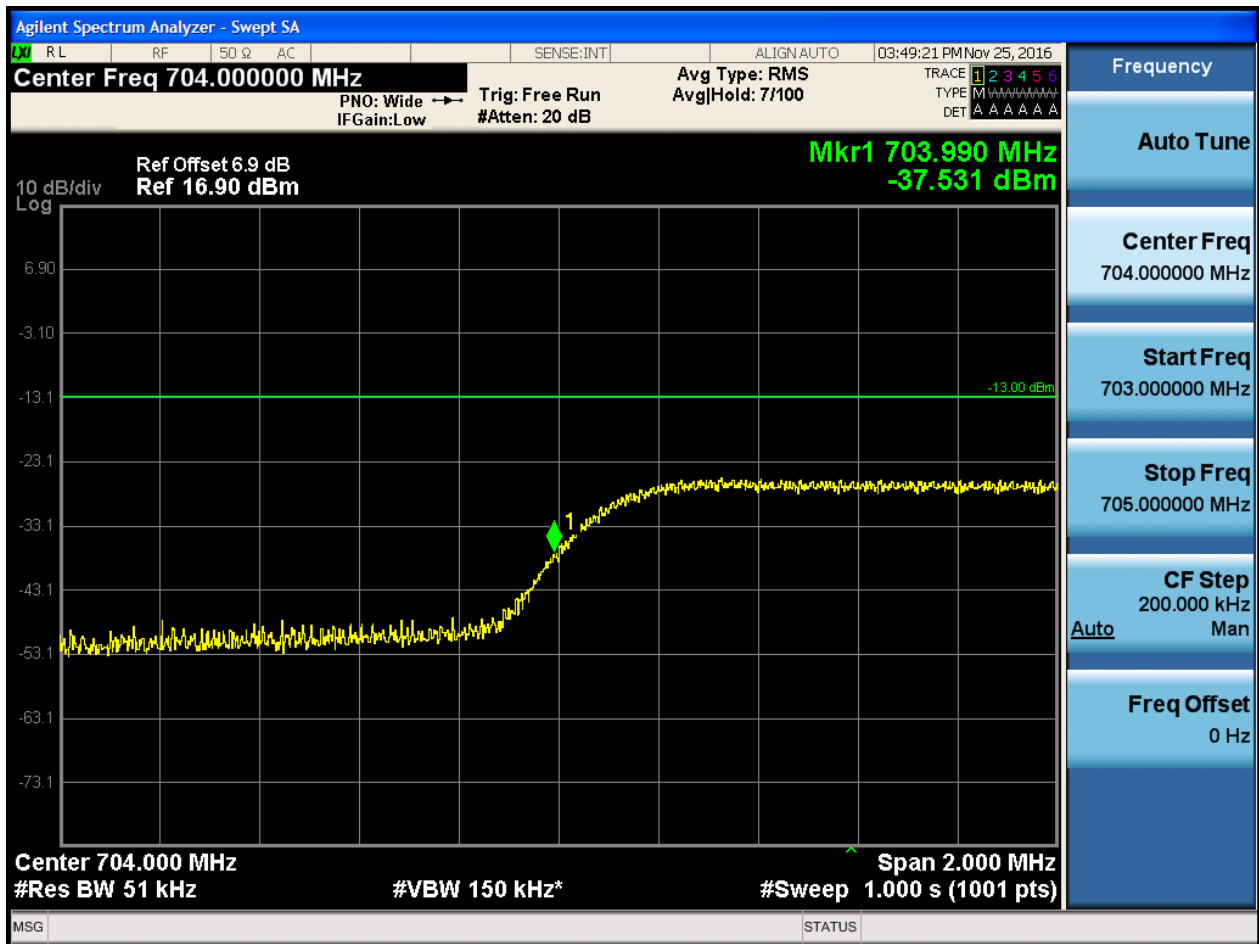
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



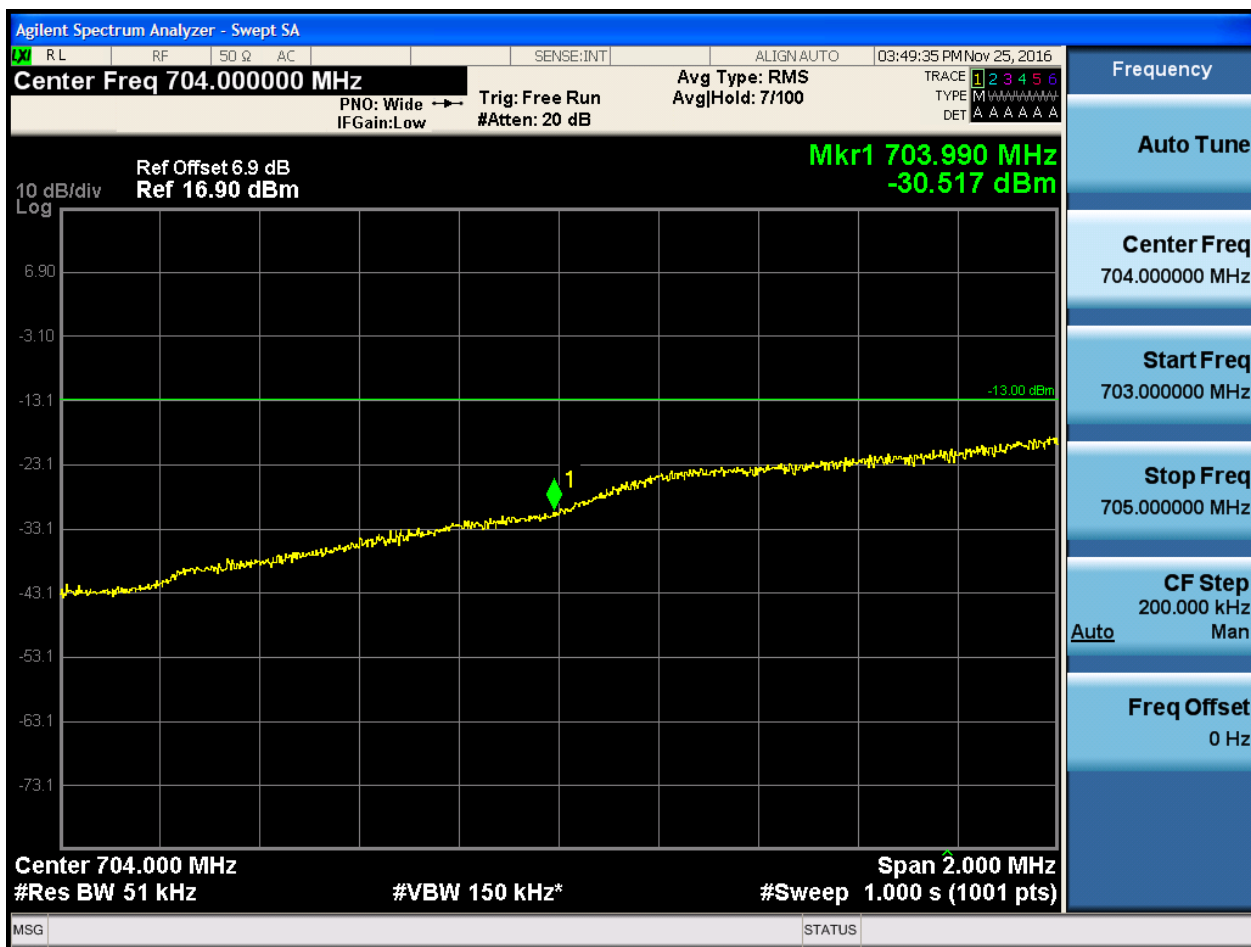


5.1.1.2.1.1.2 Test RB = RB1#24



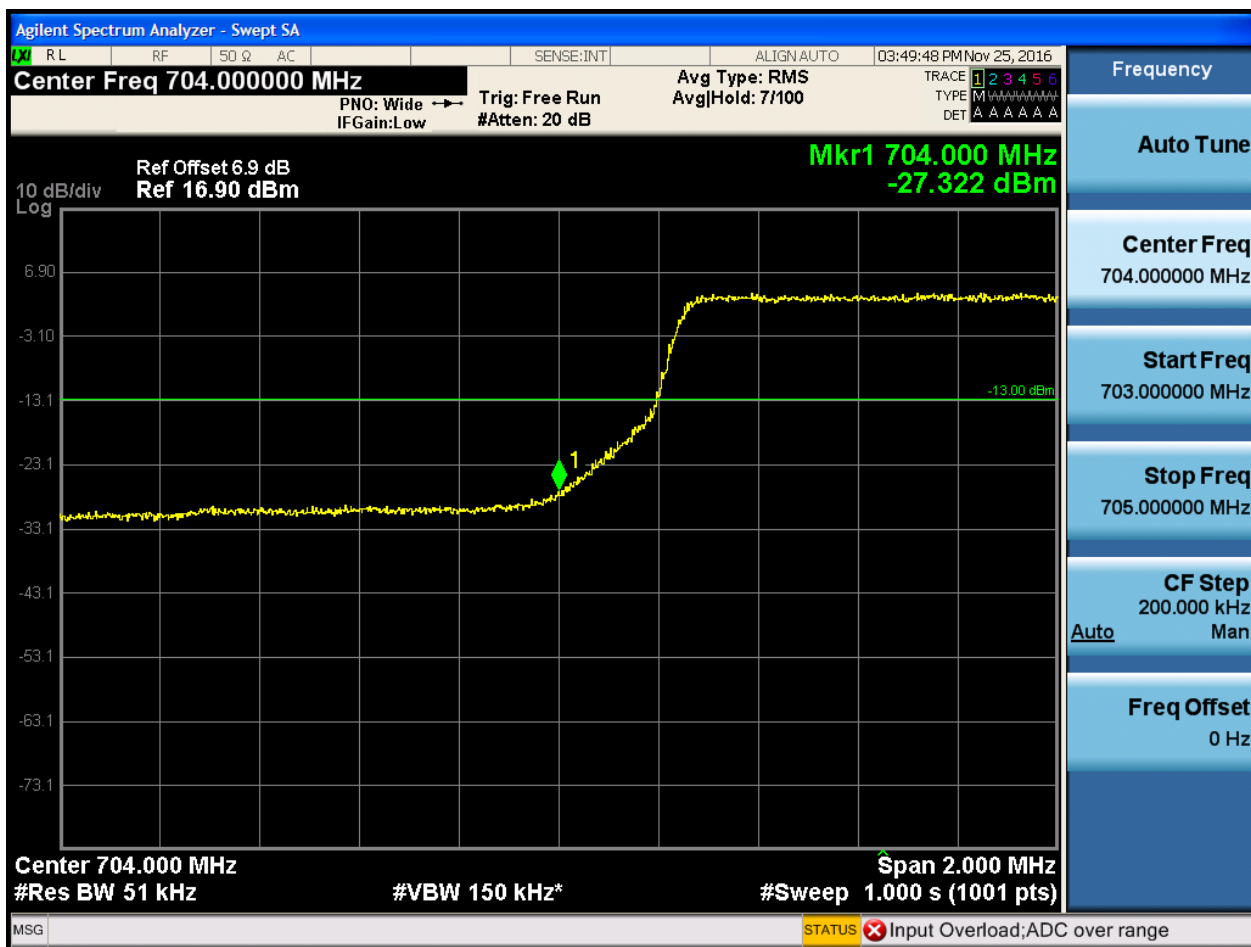


5.1.1.2.1.1.3 Test RB = RB12#6





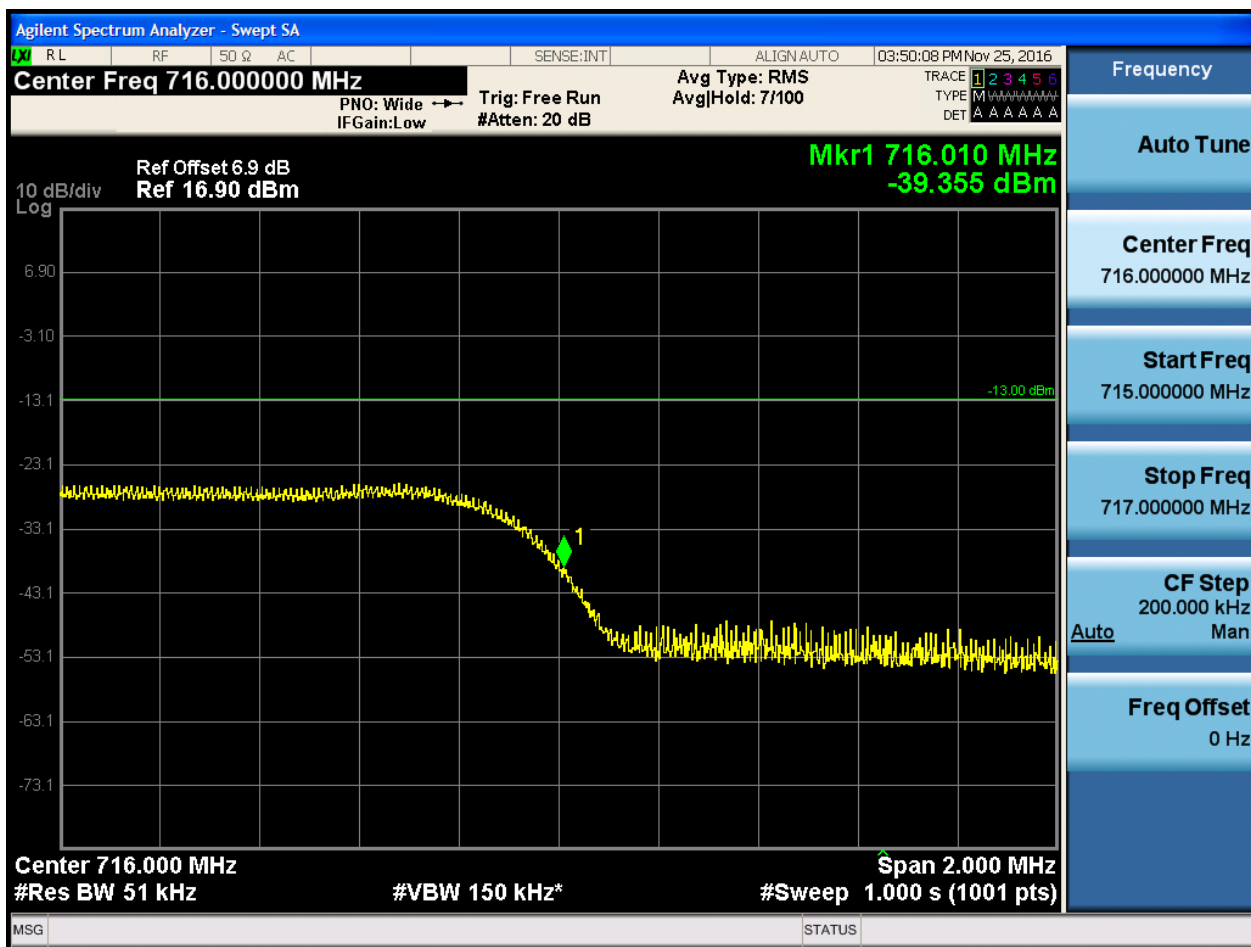
5.1.1.2.1.1.4 Test RB = RB25#0



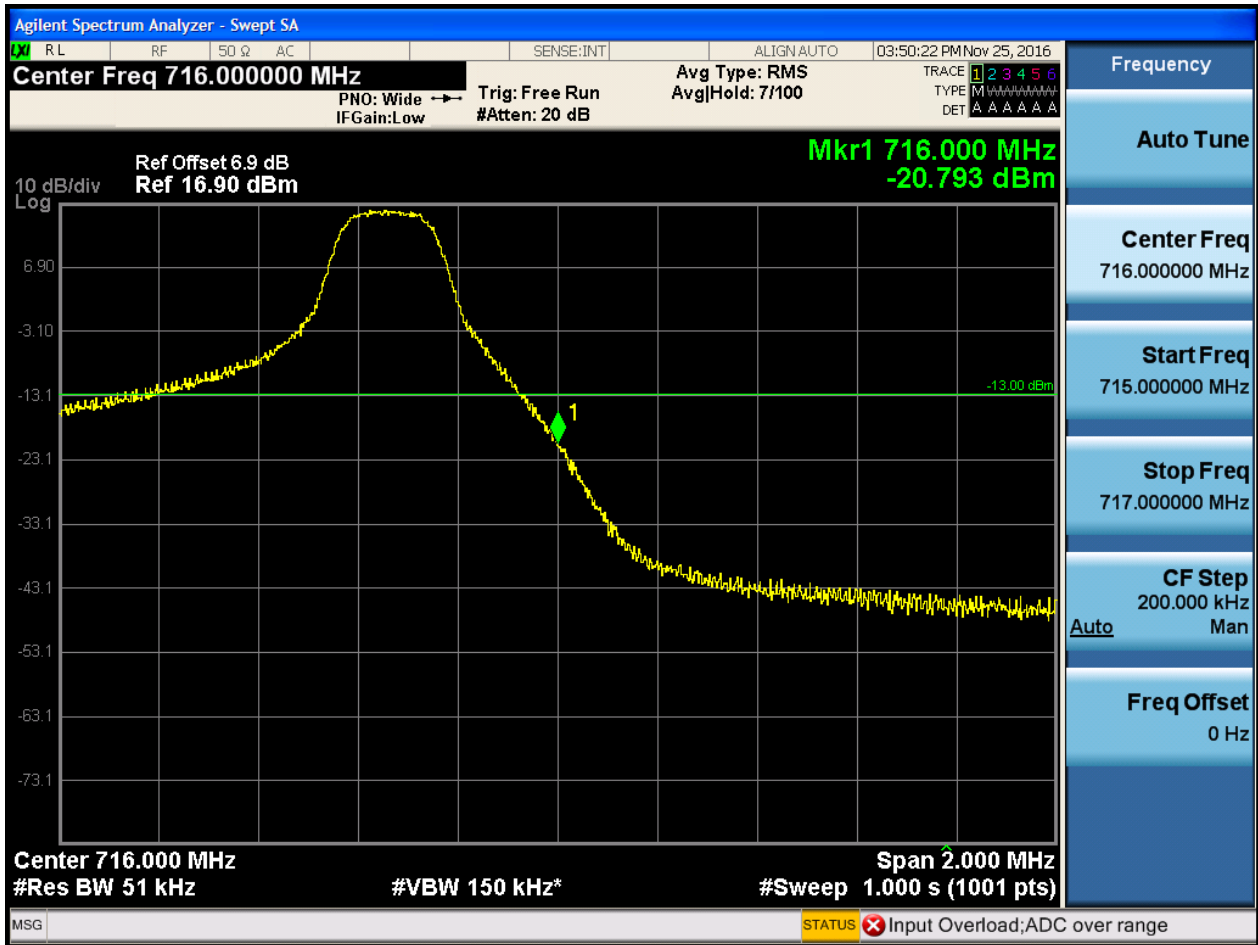


5.1.1.2.1.2 Test Channel = HCH

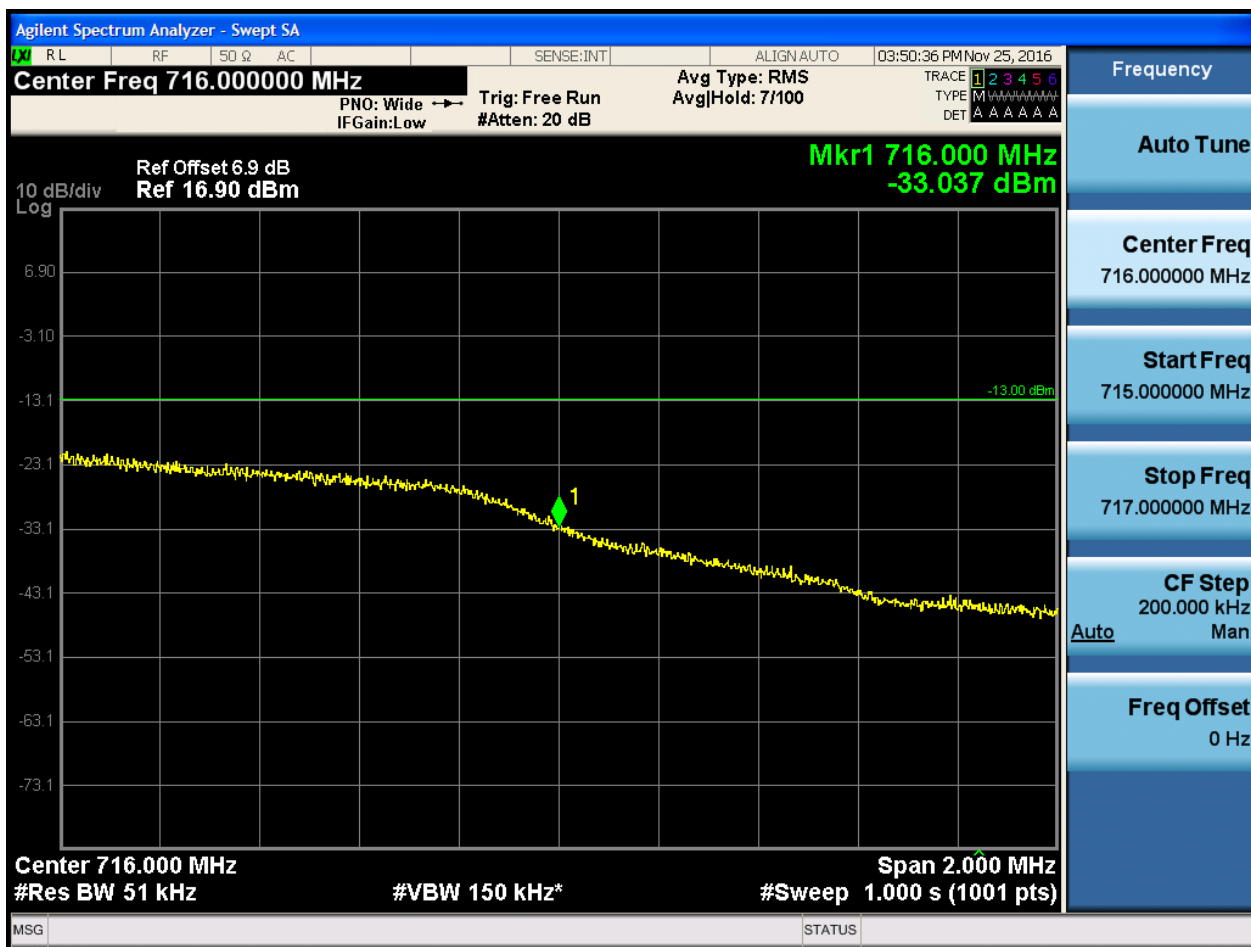
5.1.1.2.1.2.1 Test RB = RB1#0



5.1.1.2.1.2.2 Test RB = RB1#24



5.1.1.2.1.2.3 Test RB = RB12#6





5.1.1.2.1.2.4 Test RB = RB25#0

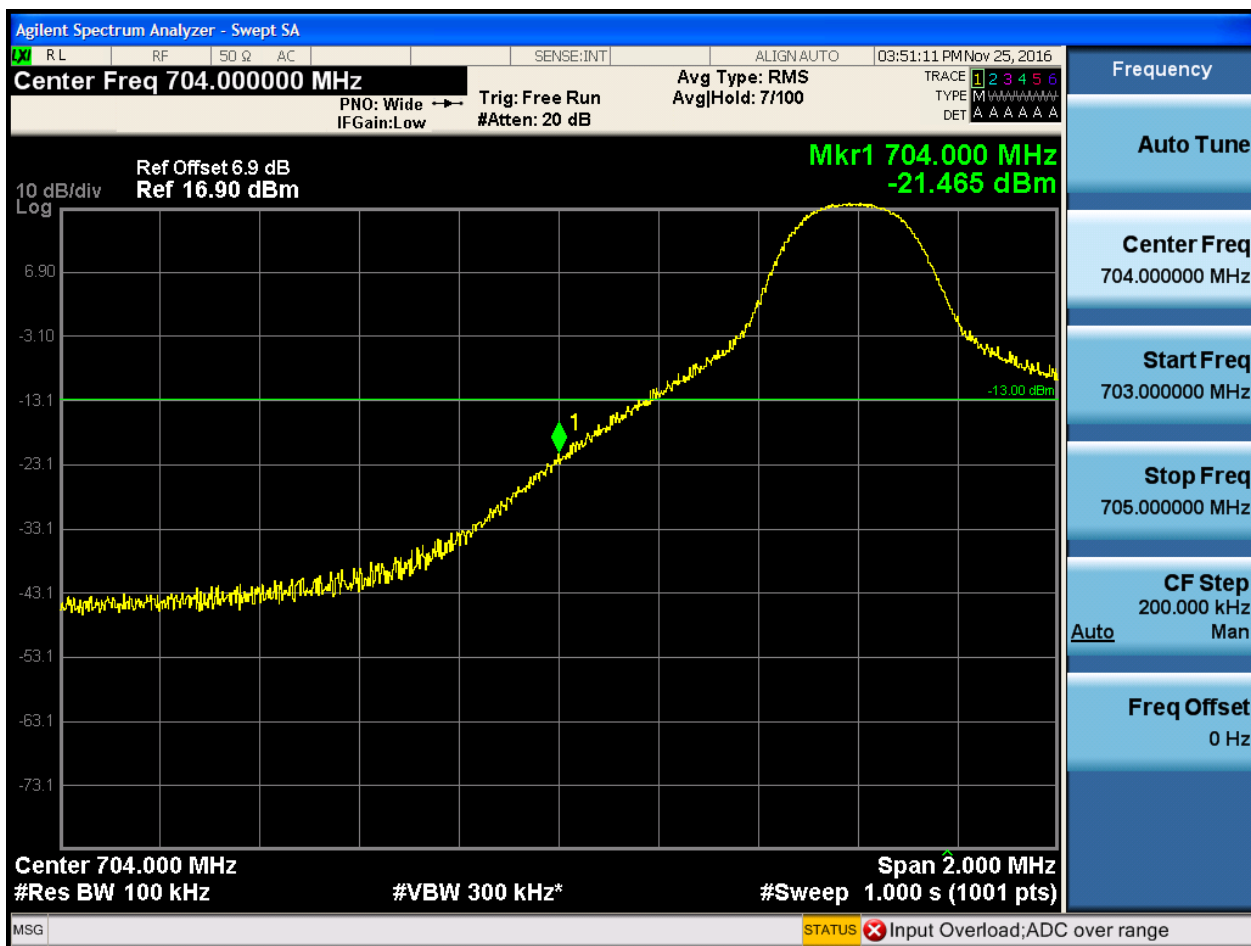




5.1.1.2.2 Test Bandwidth = 10

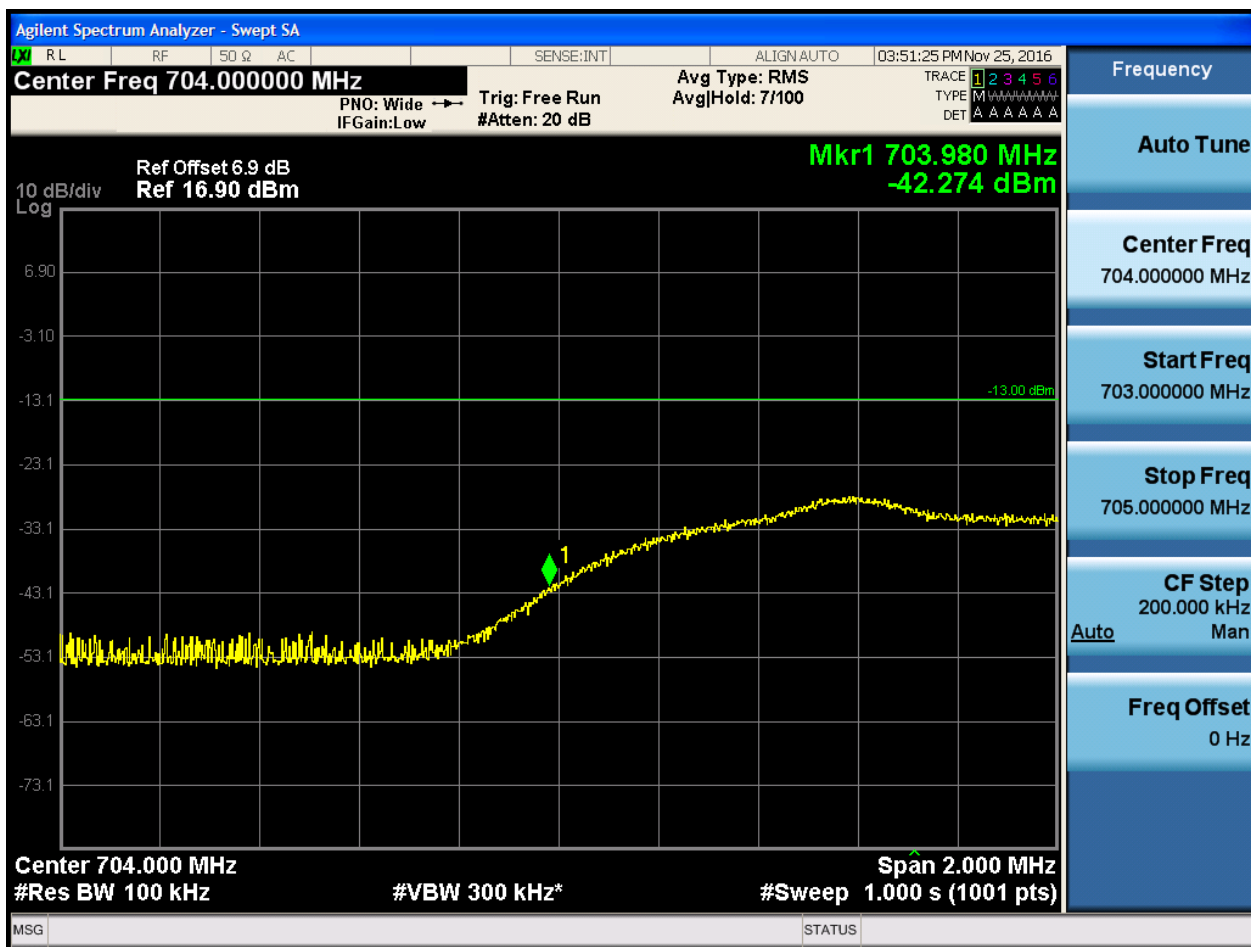
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





5.1.1.2.2.1.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:51:39 PM Nov 25, 2016

Center Freq 704.000000 MHz Avg Type: RMS
PNO: Wide IF Gain: Low Trig: Free Run Avg Hold: 7/100
#Atten: 20 dB

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

10 dB/div Ref Offset 6.9 dB
Log Ref 16.90 dBm

Mkr1 704.000 MHz
-30.471 dBm

Center Freq 704.000000 MHz
Start Freq 703.000000 MHz
Stop Freq 705.000000 MHz
CF Step 200.000 kHz
Auto Man
Freq Offset 0 Hz

Center 704.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:51:52 PM Nov 25, 2016

Center Freq 704.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7/100
#Atten: 20 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 6.9 dB
Ref 16.90 dBm

Mkr1 703.980 MHz
-27.983 dBm

10 dB/div
Log

Center 704.000 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
704.000000 MHz

Start Freq
703.000000 MHz

Stop Freq
705.000000 MHz

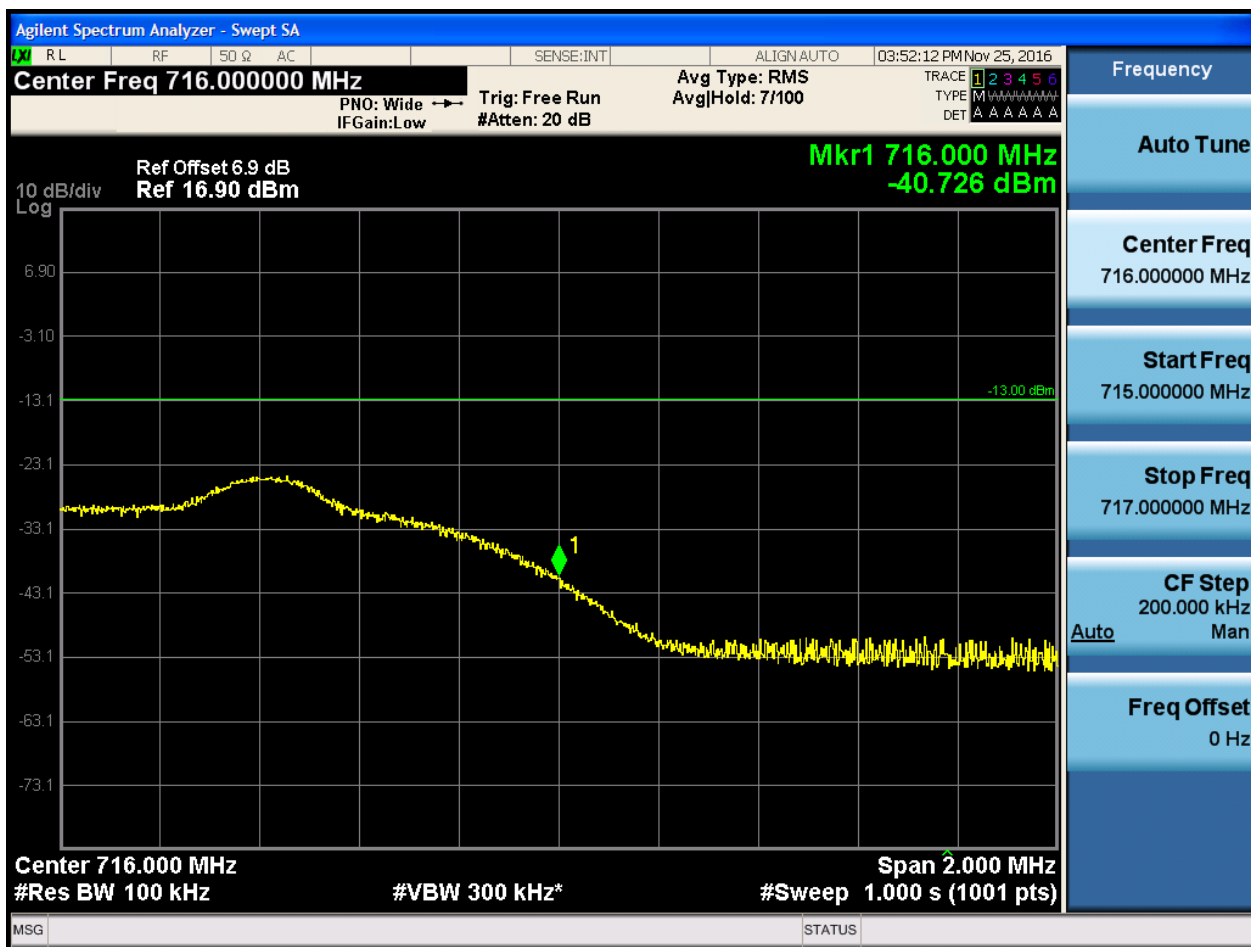
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



5.1.1.2.2.2.2 Test RB = RB1#49



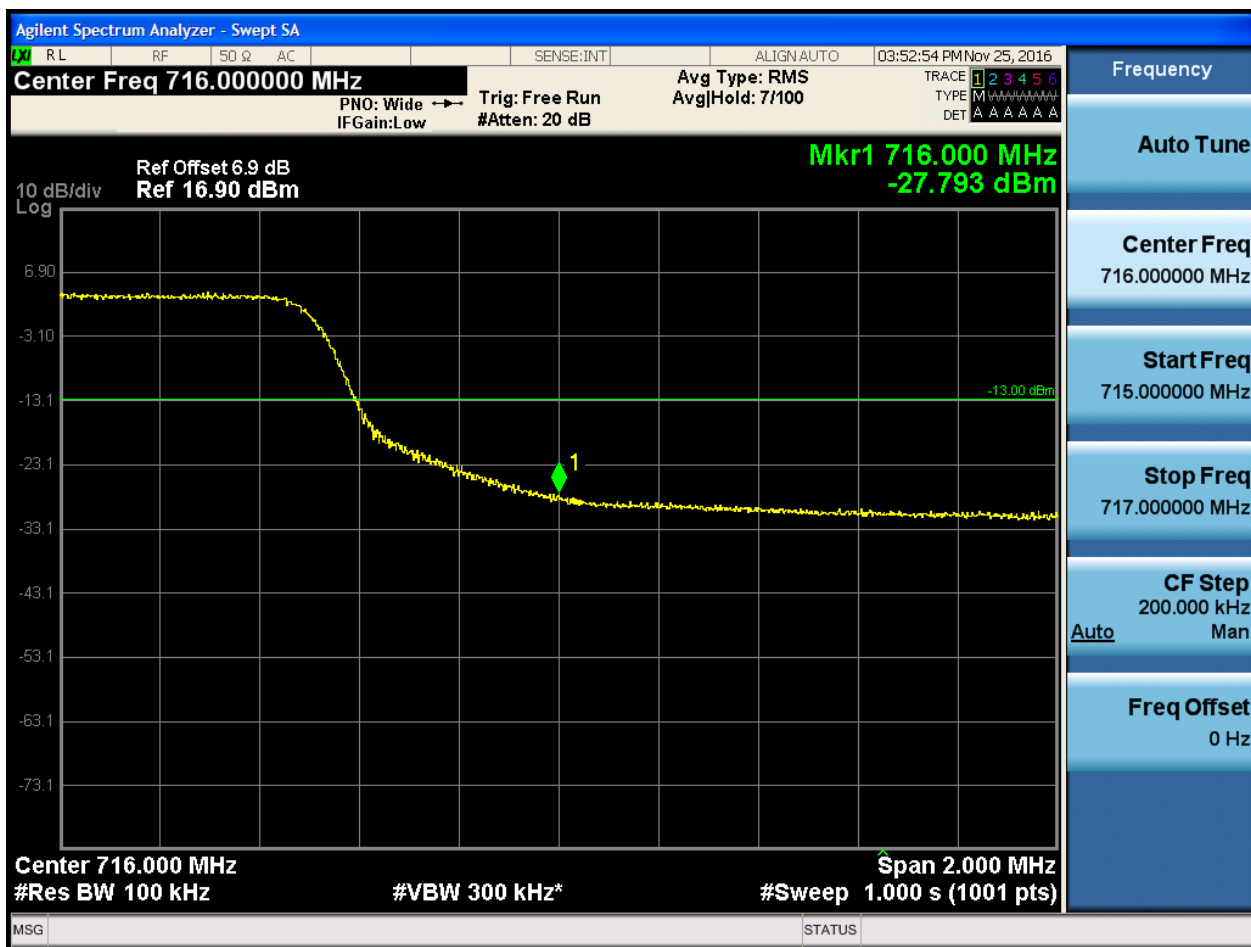


5.1.1.2.2.3 Test RB = RB25#13





5.1.1.2.2.4 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

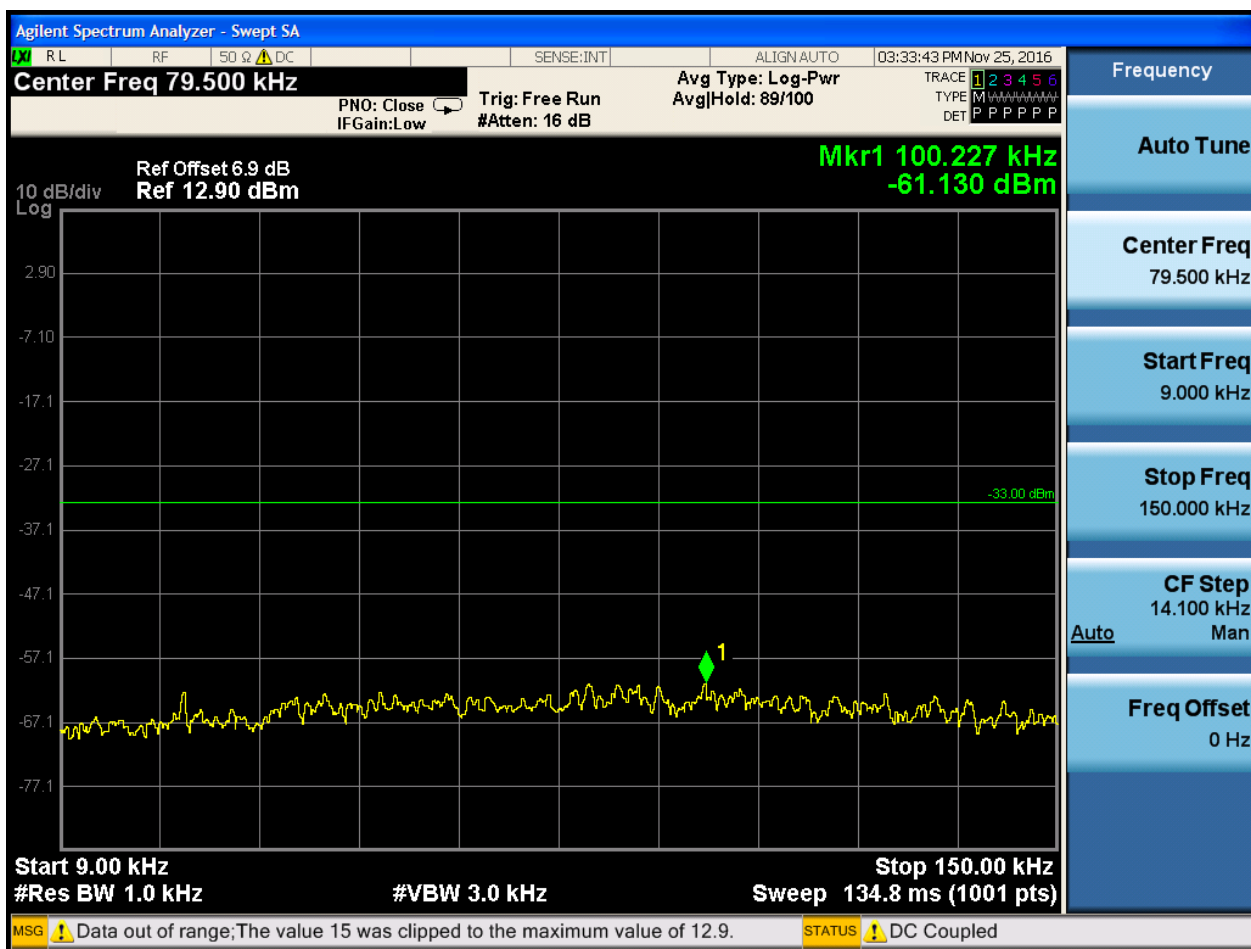
6.1.1 Test Band = BAND17

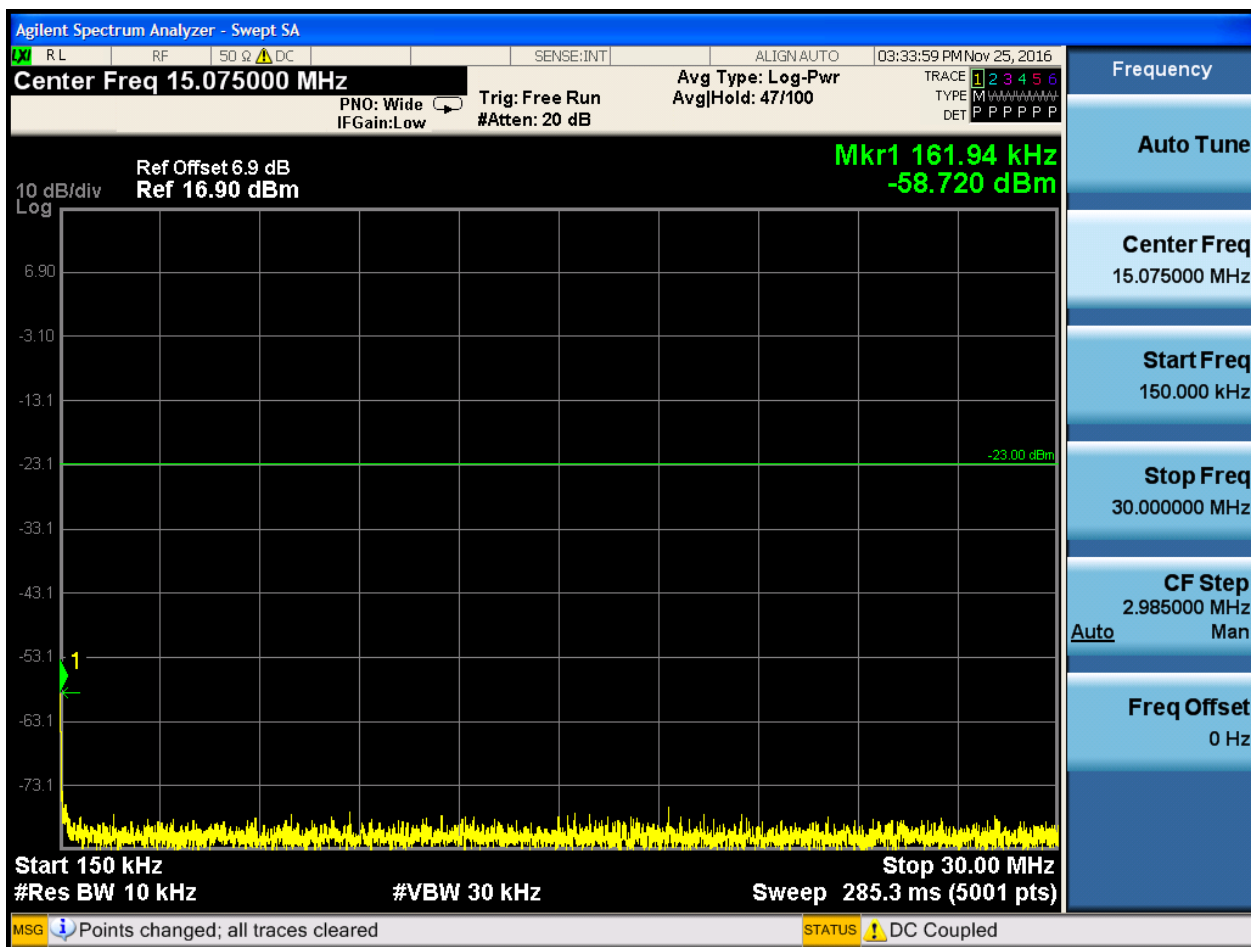
6.1.1.1 Test Mode = LTE/TM1

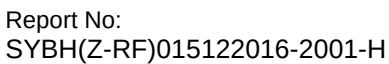
6.1.1.1.1 Test Bandwidth = 5

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0



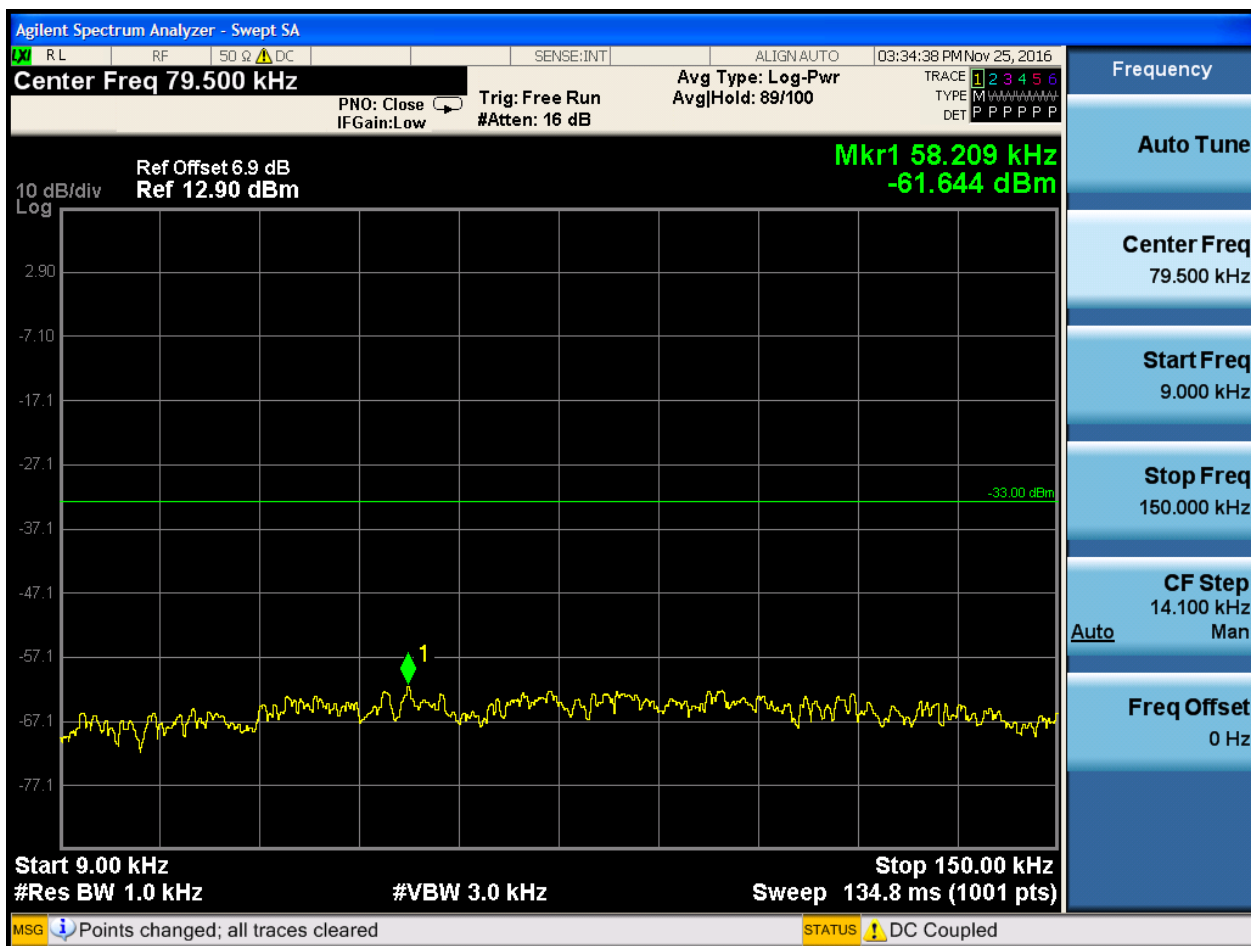


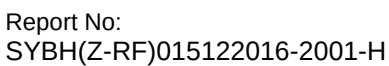




6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0

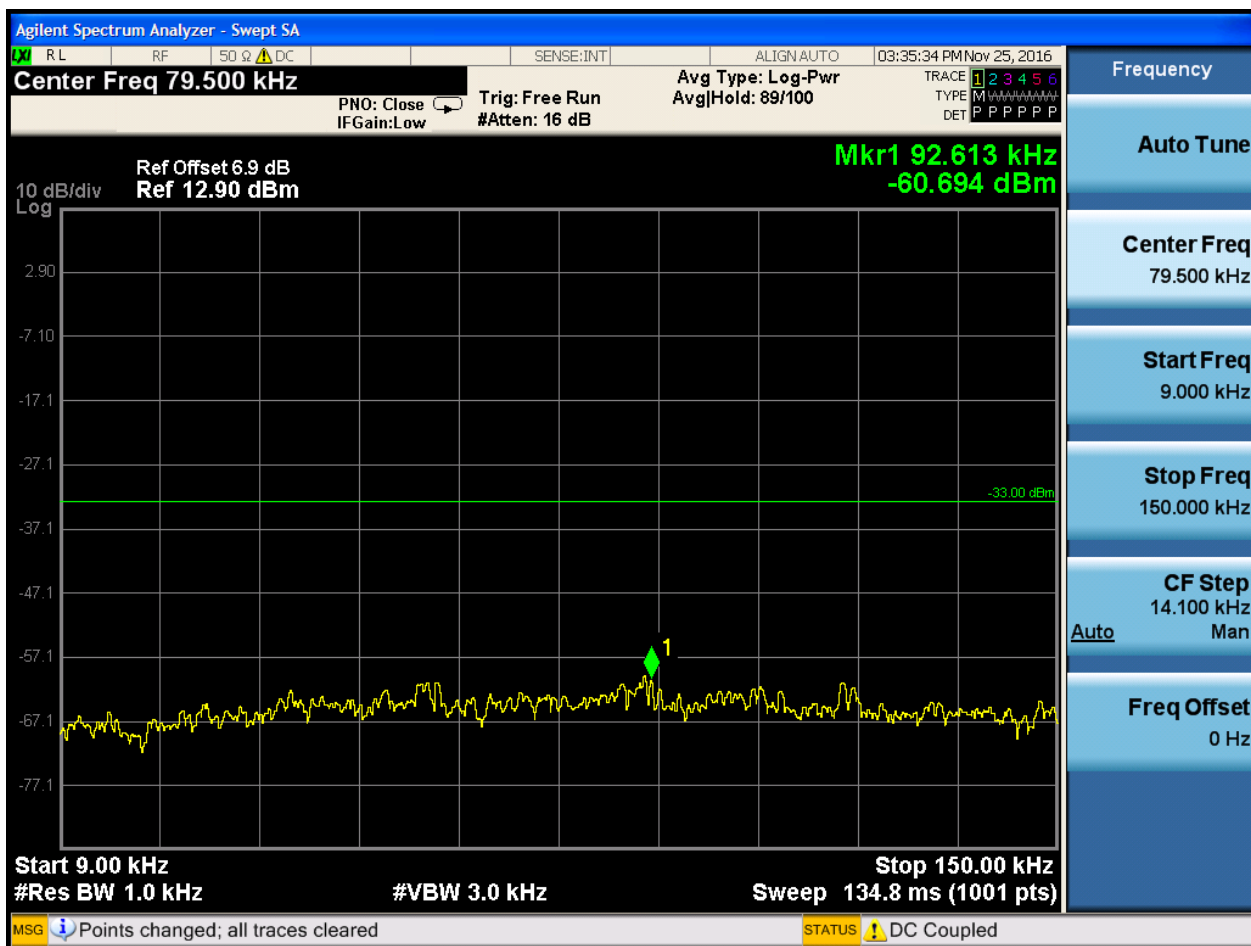


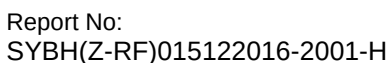


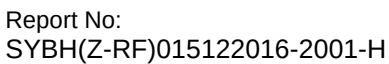


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0



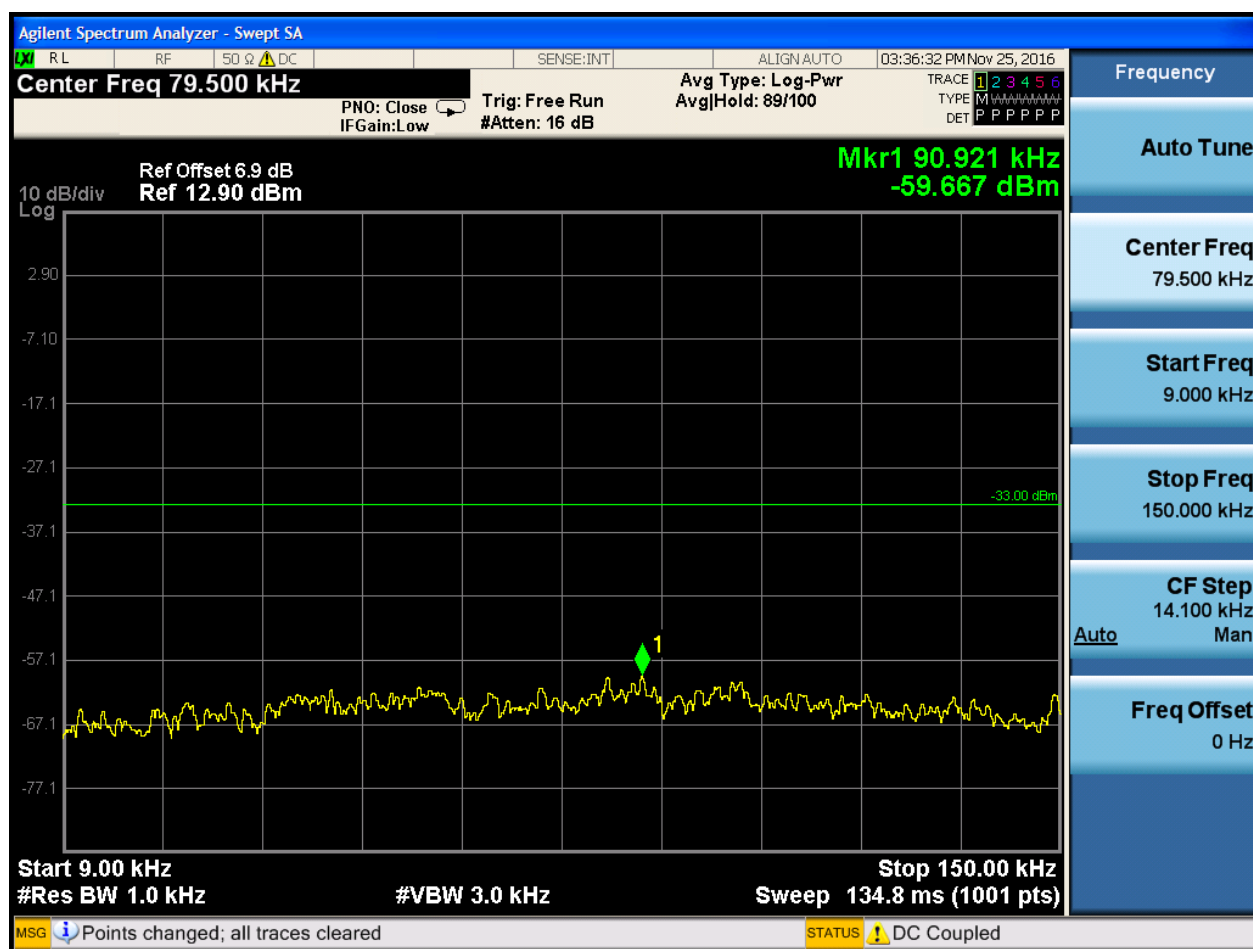


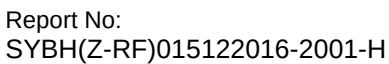


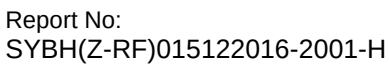
6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



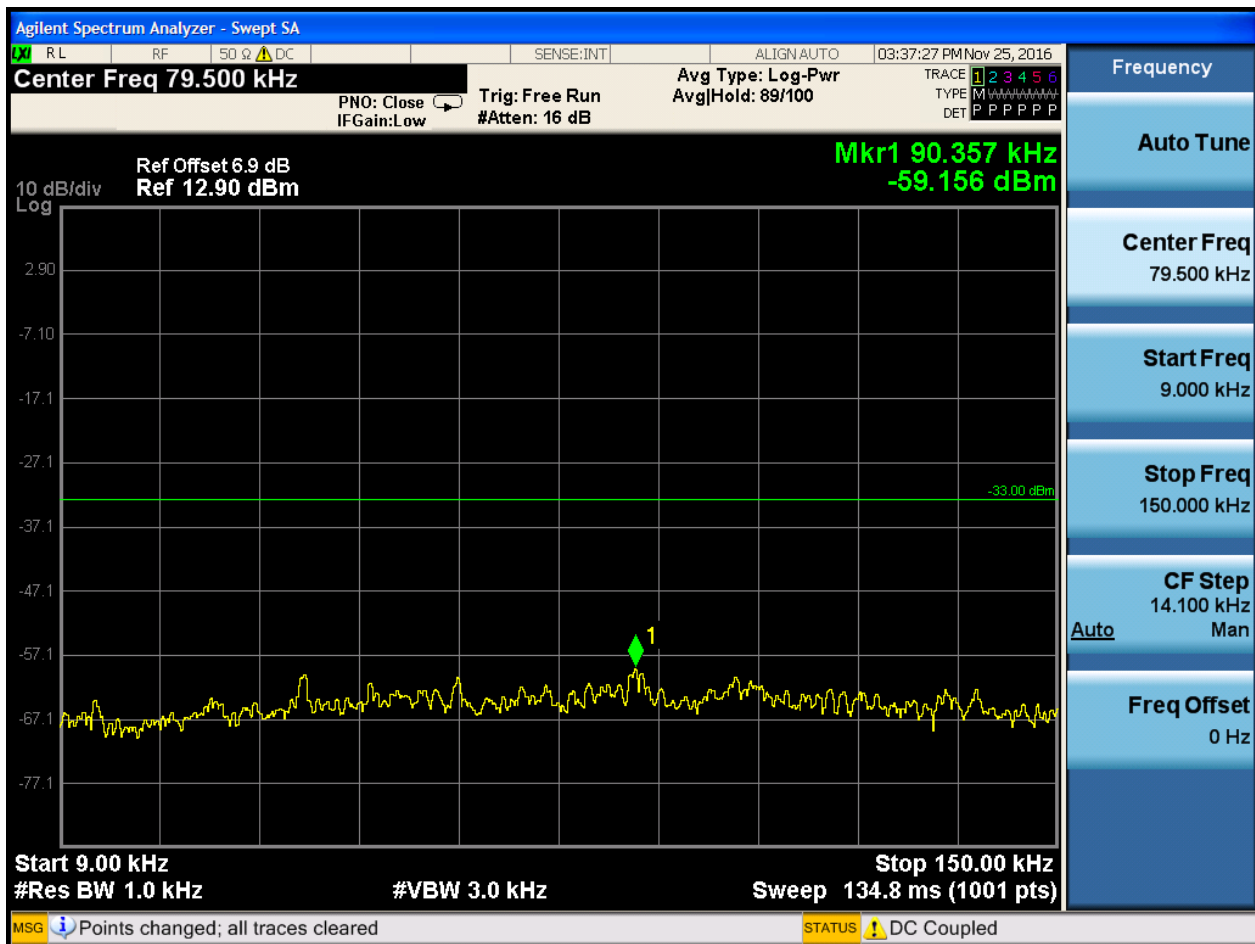




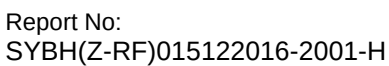


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



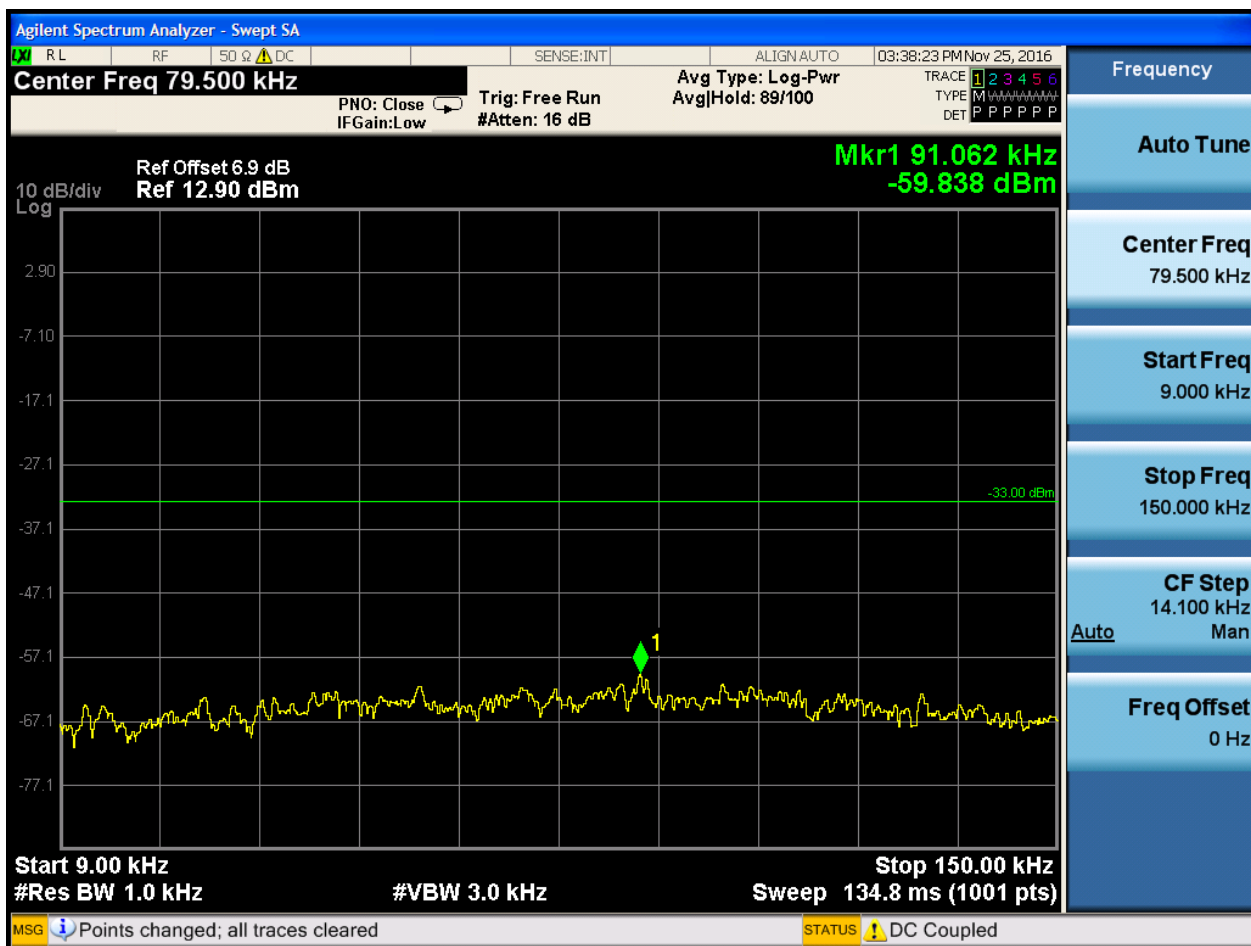


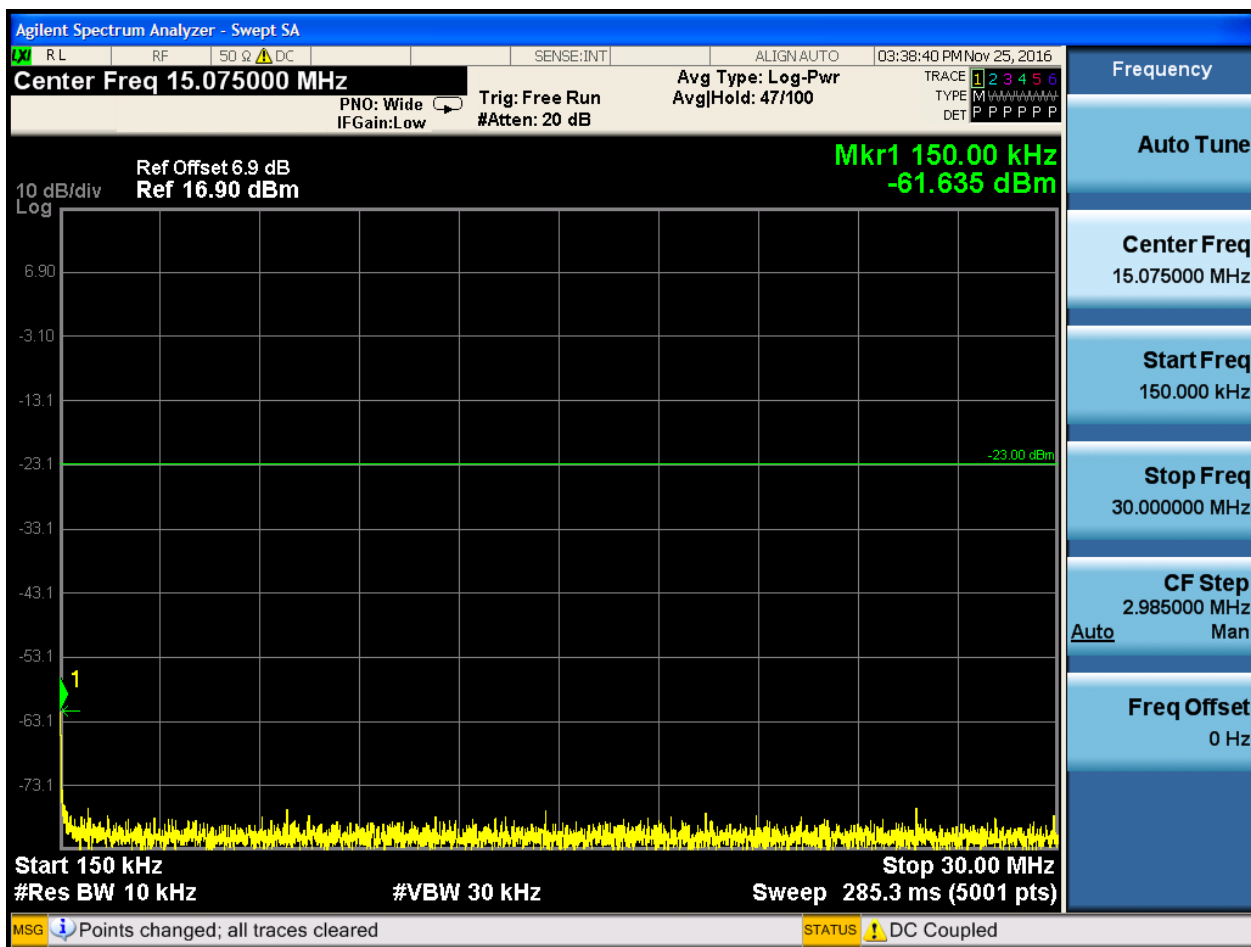


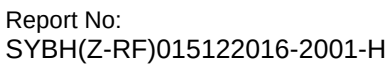


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





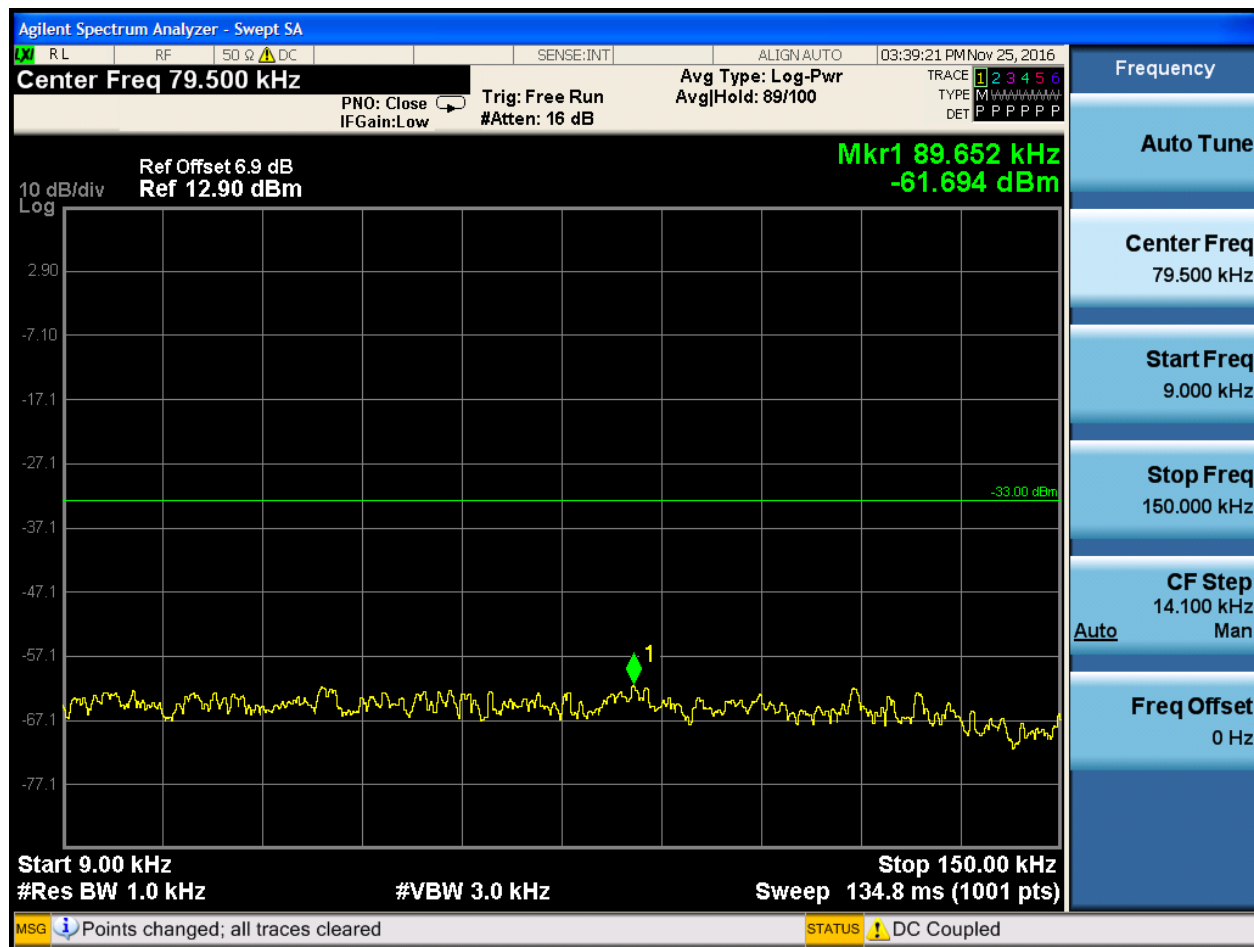


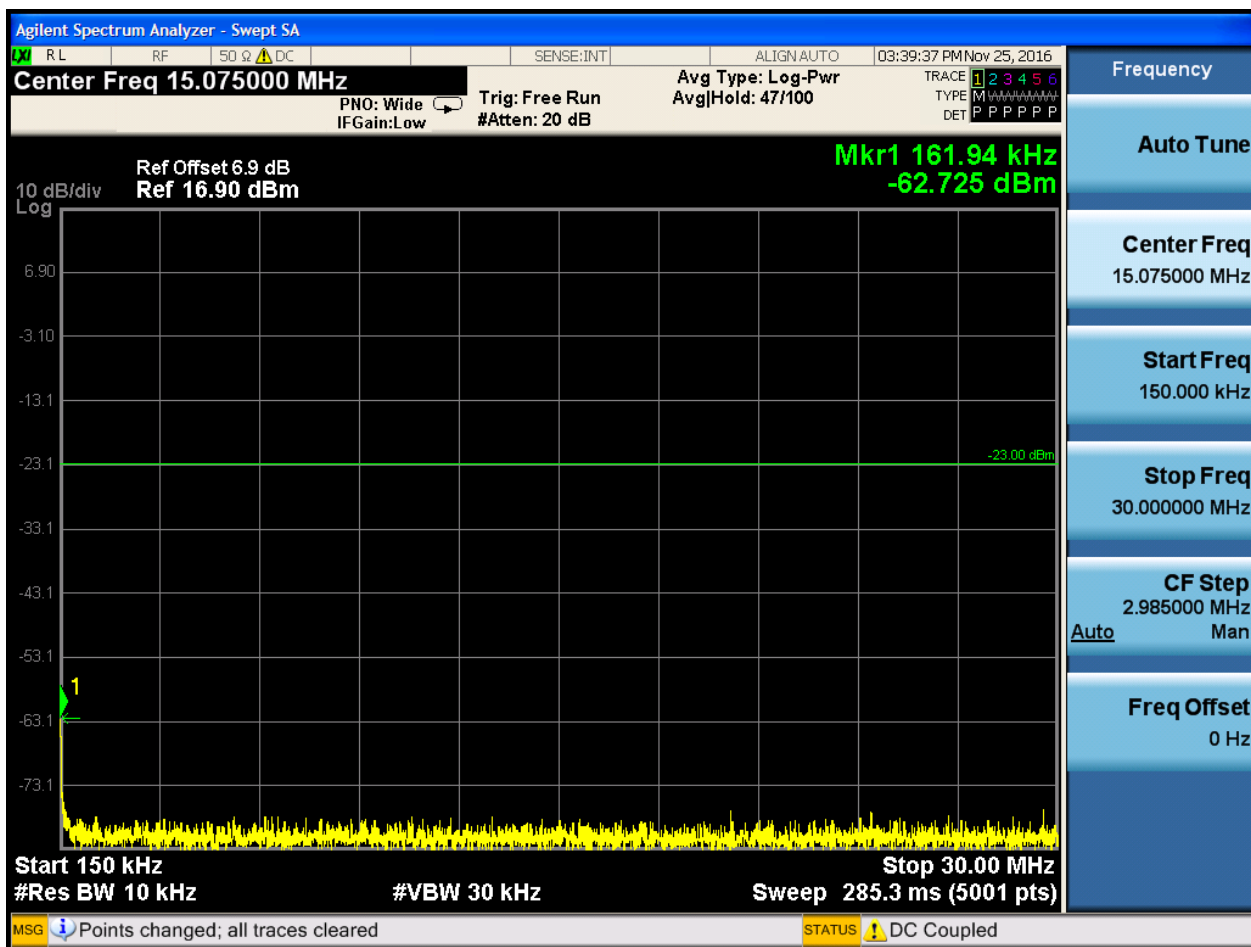
6.1.1.2 Test Mode = LTE/TM2

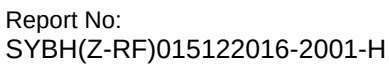
6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



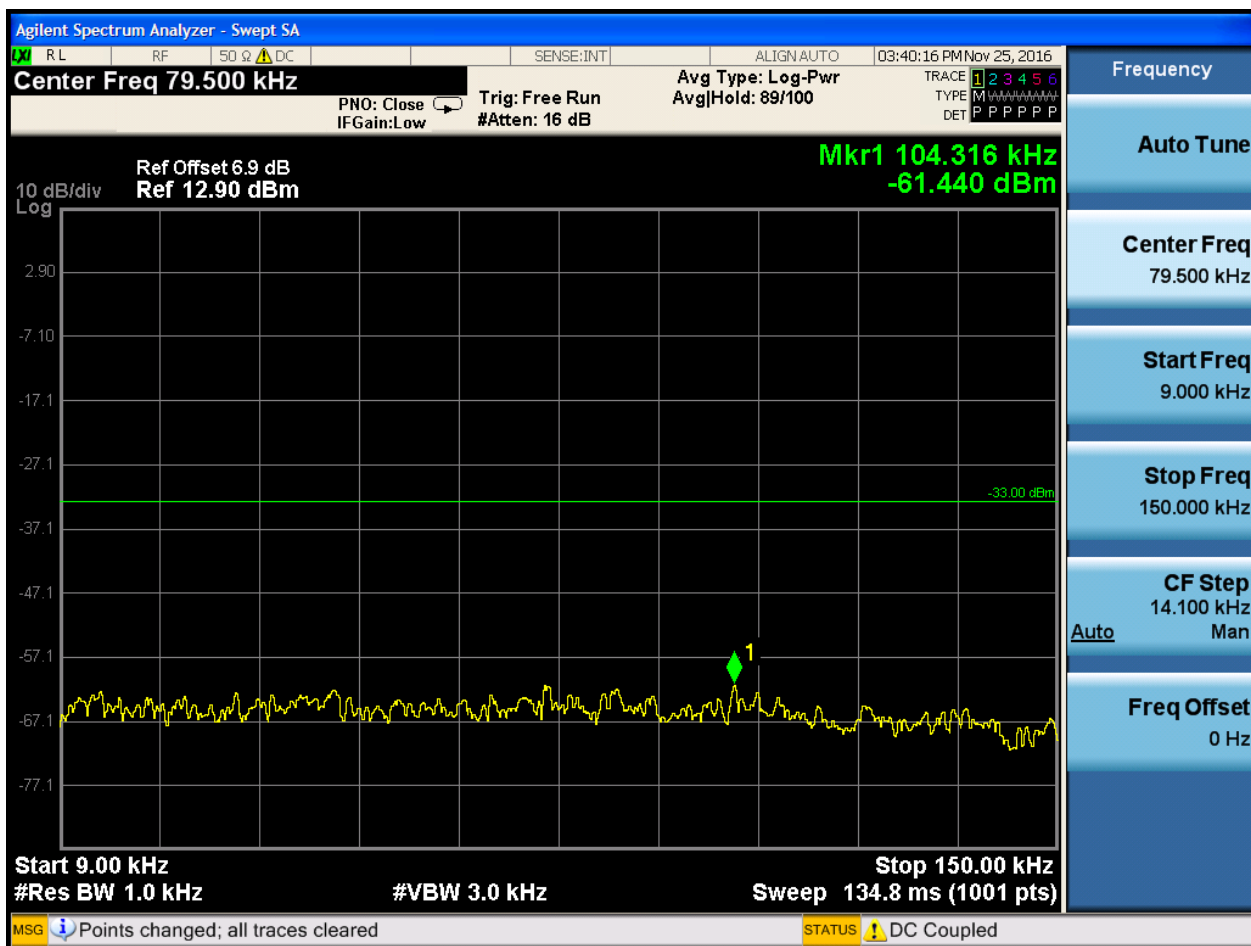




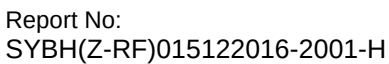


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



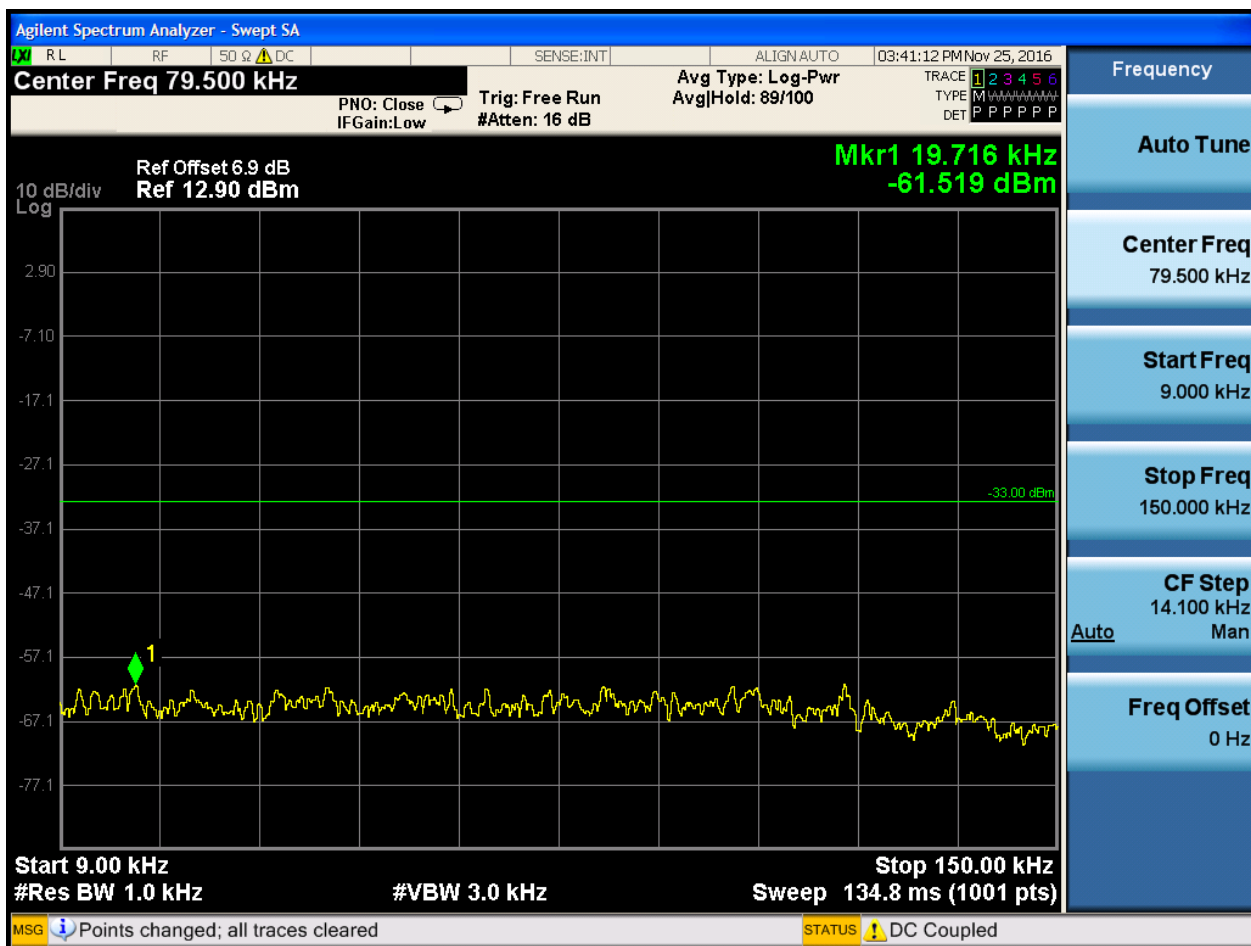


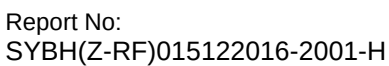


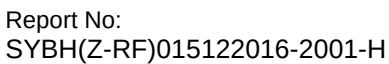


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



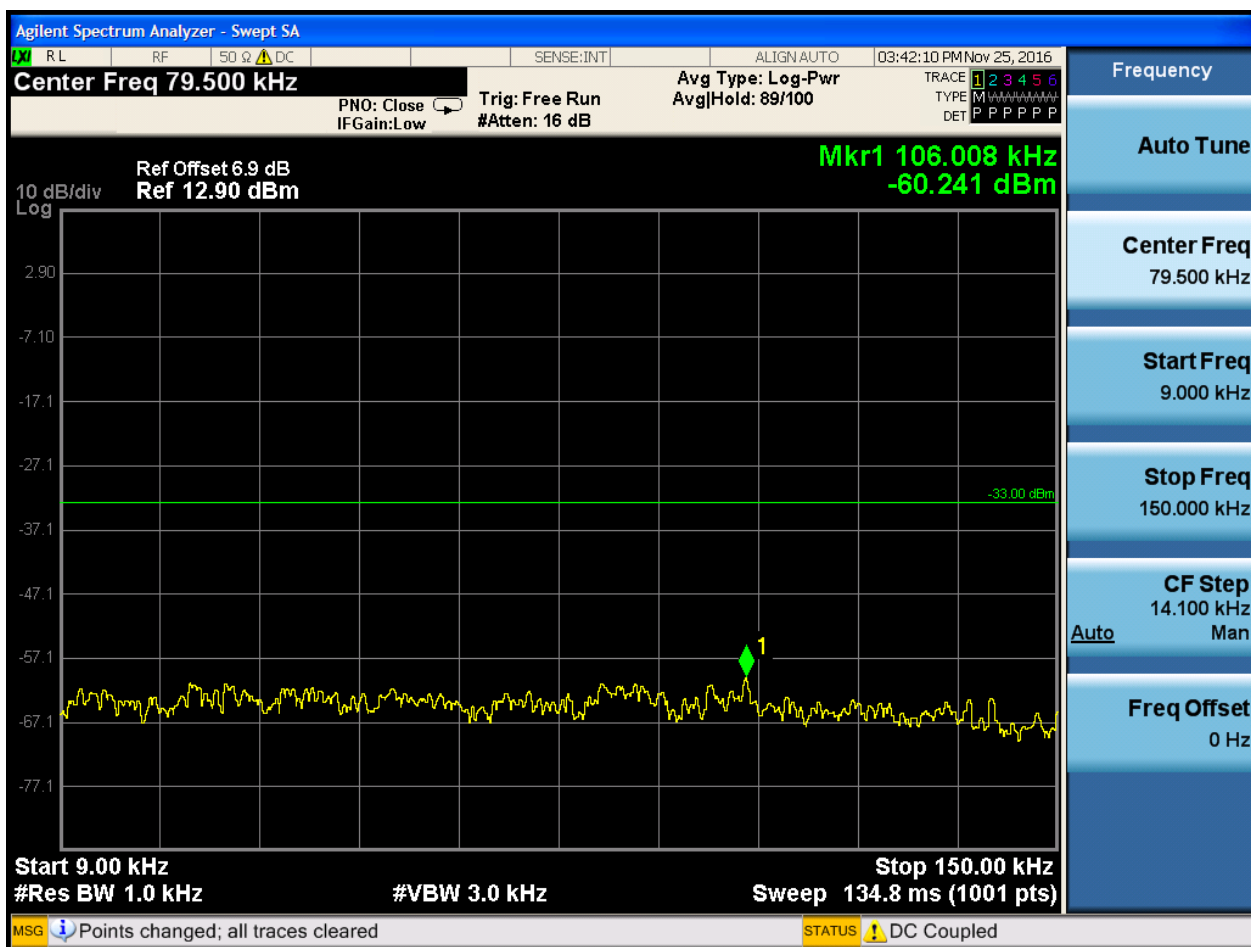


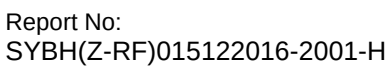


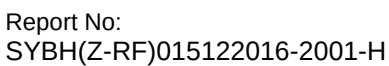
6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



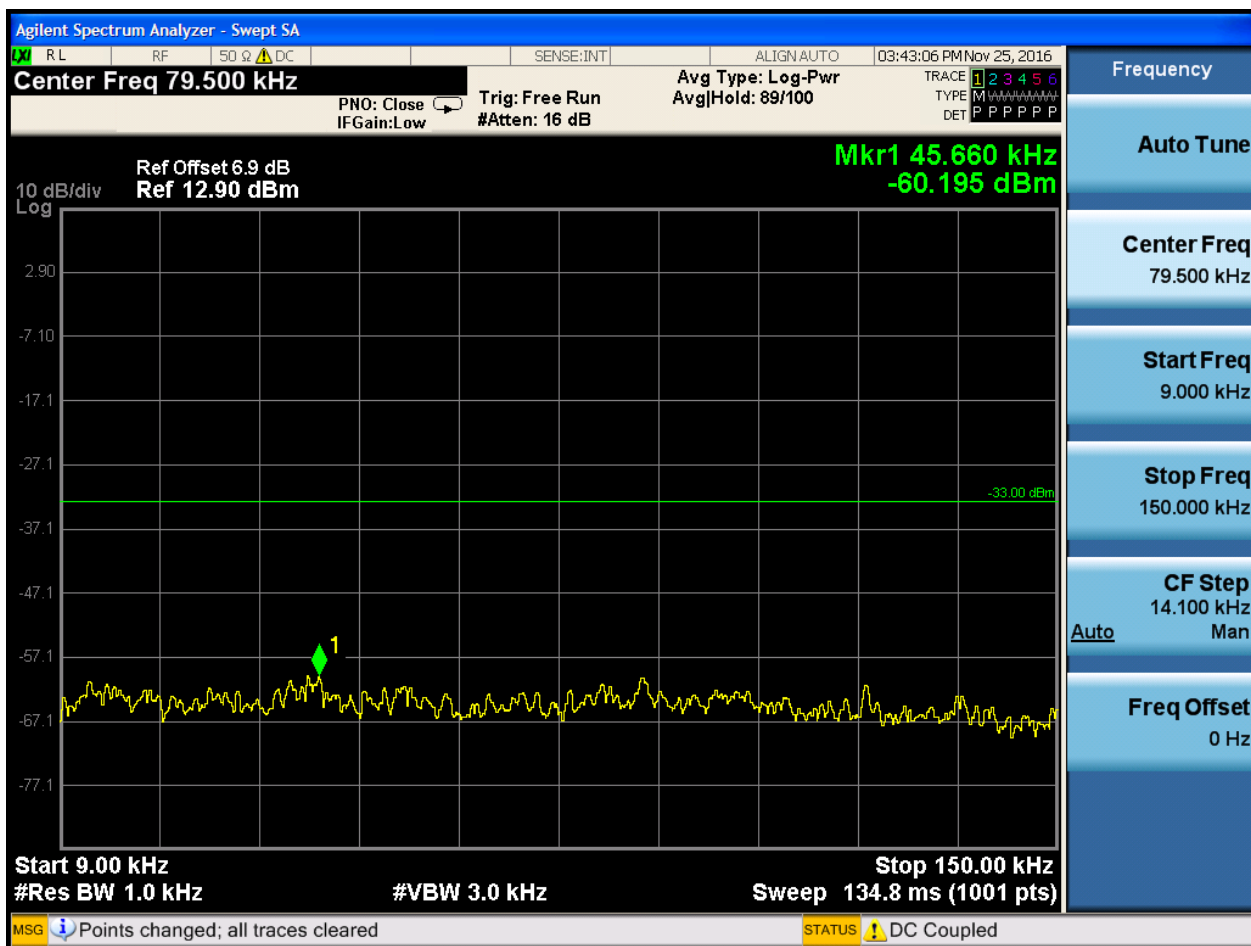


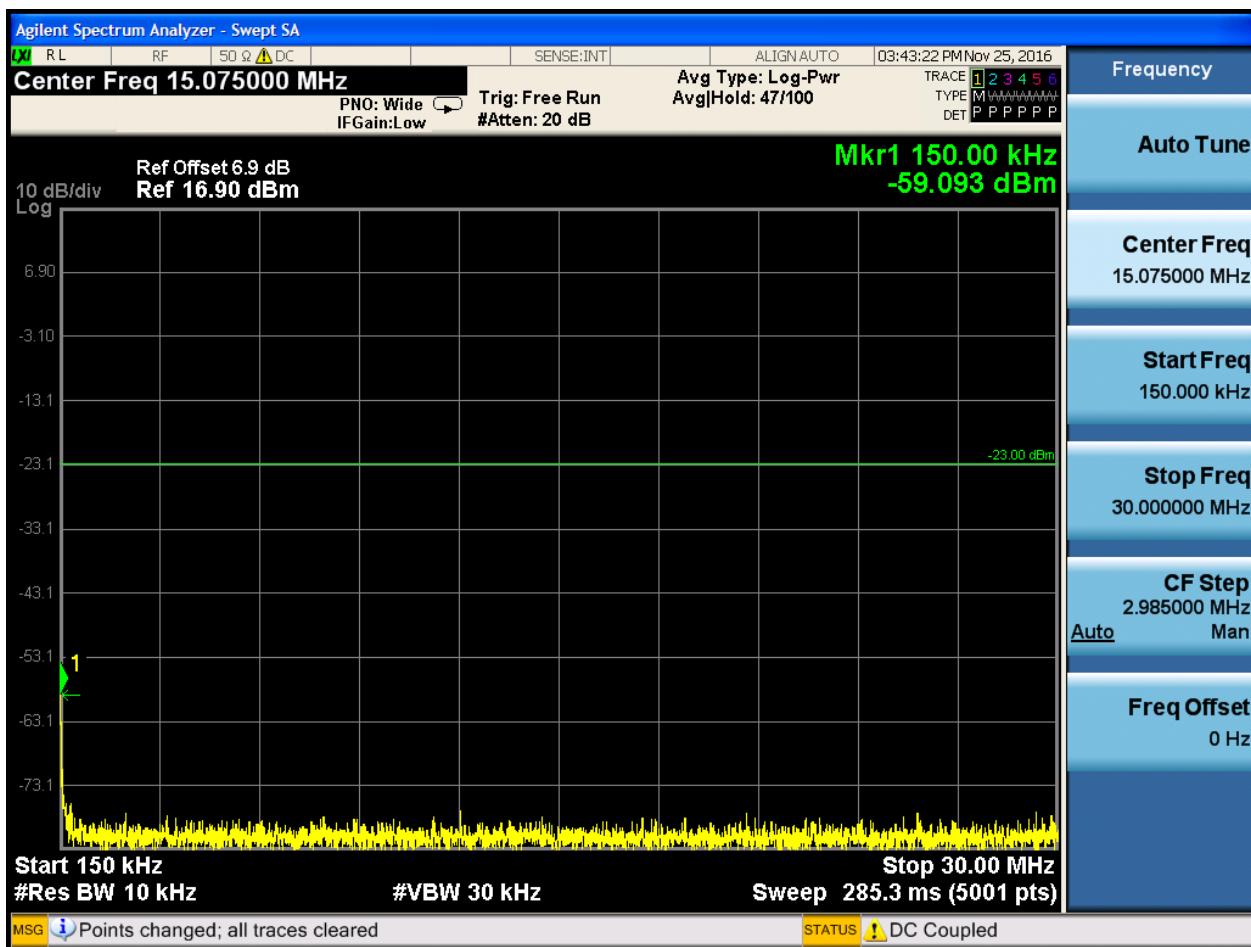


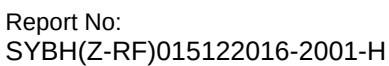


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



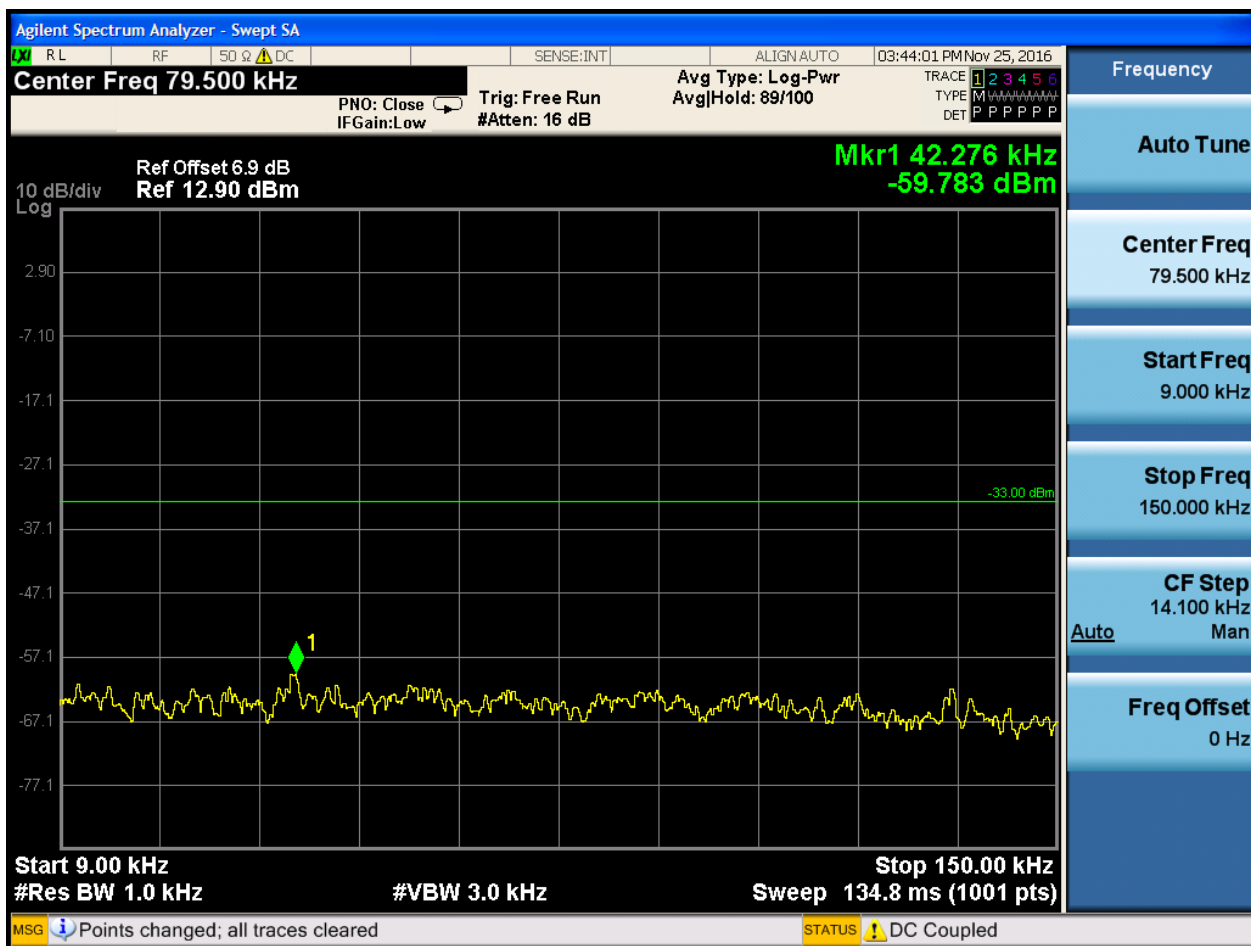




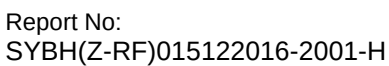


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

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

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

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

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

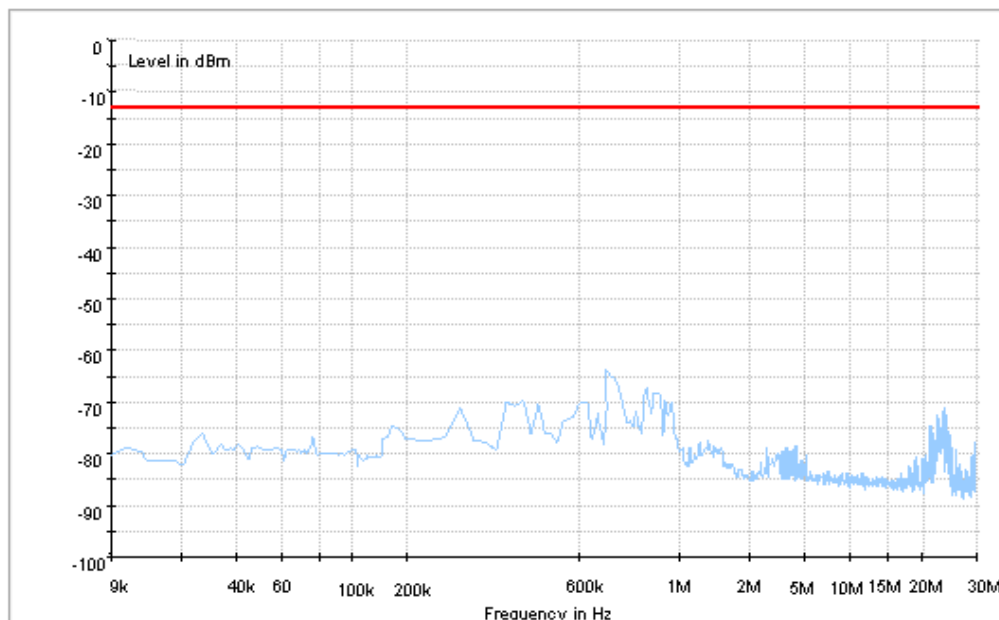
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

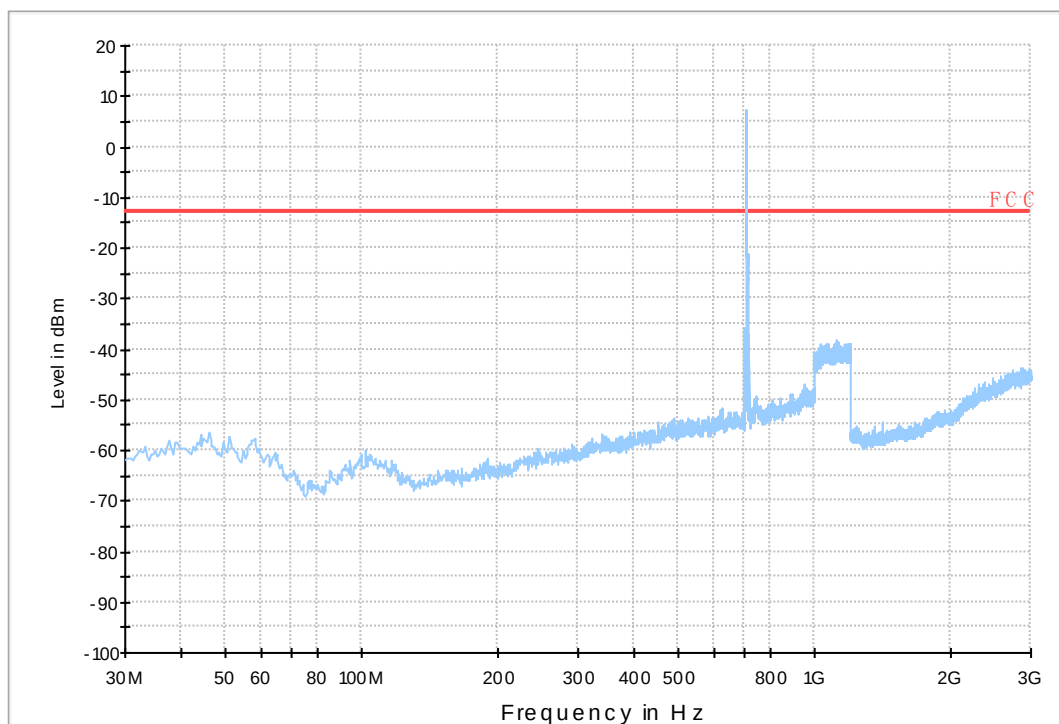
7.1 For LTE

7.1.1 Test Band = BAND17_Ant1

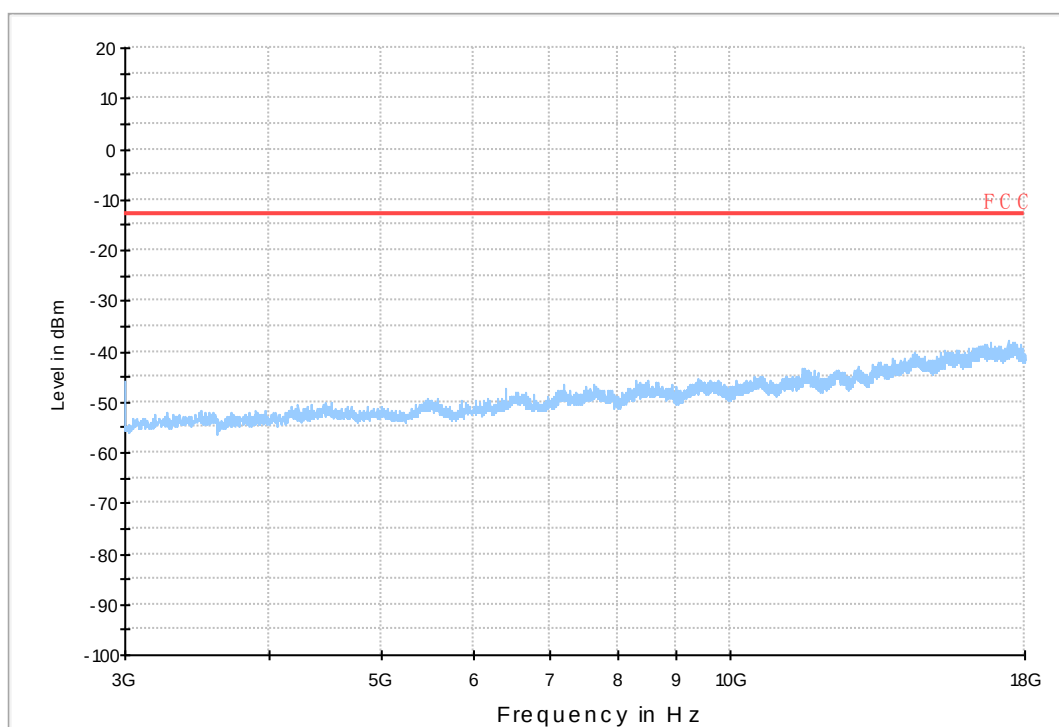
7.1.1.1 Test Bandwidth = 5



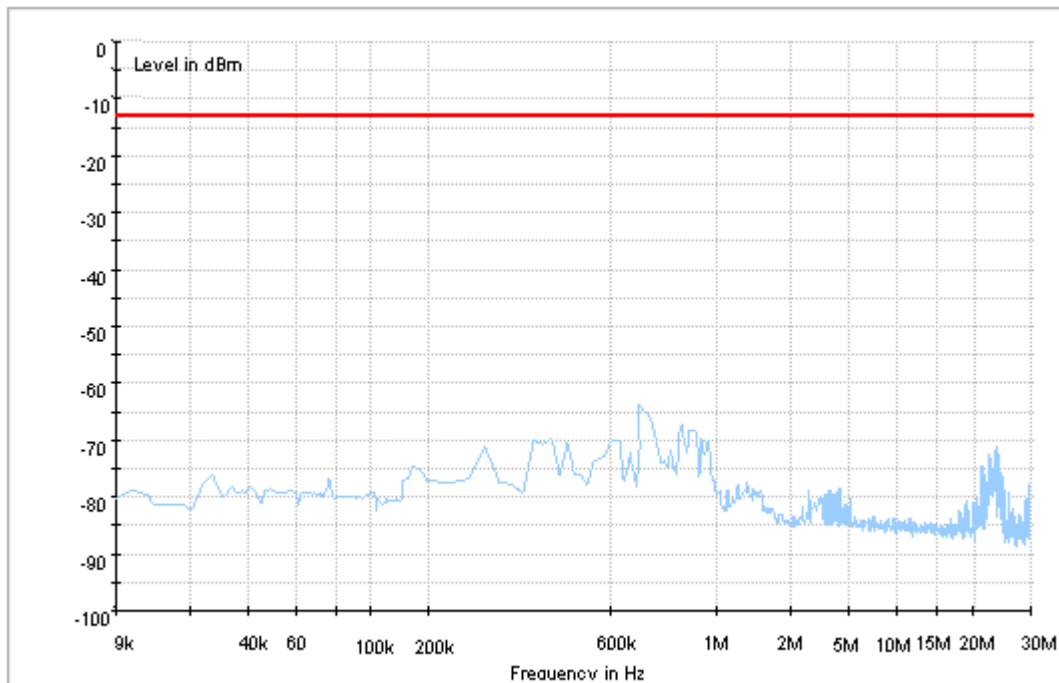
Copy of RSE-TX-DIRECTOR BELOW 1G_L



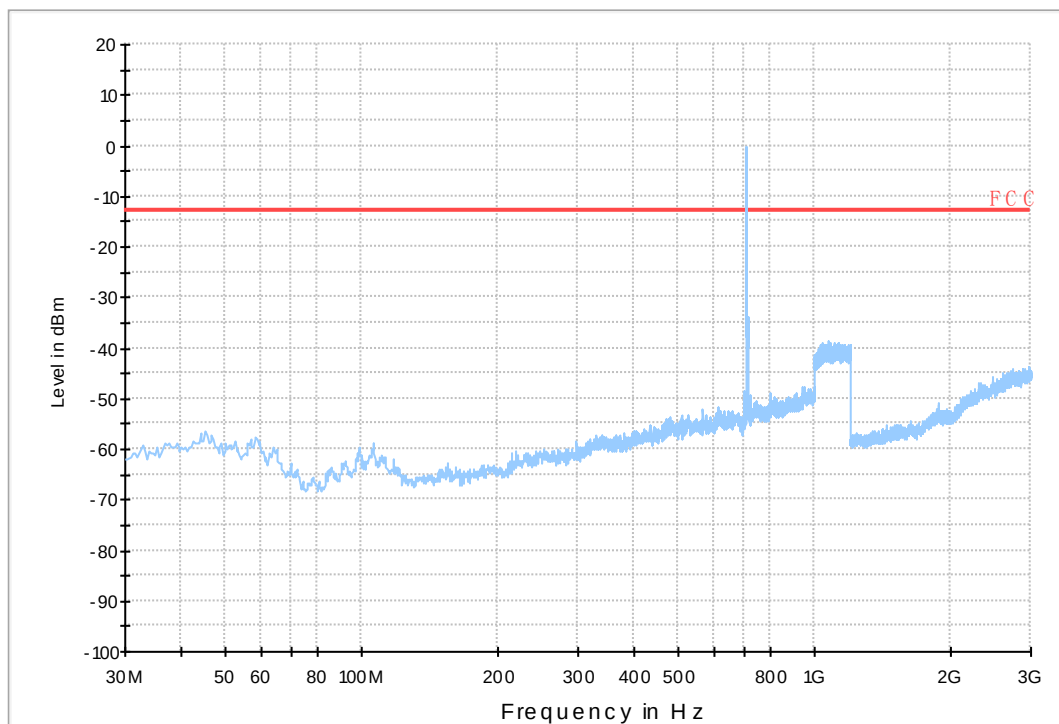
Copy of RSE-TX-DIRECTOR BELOW 1G_H



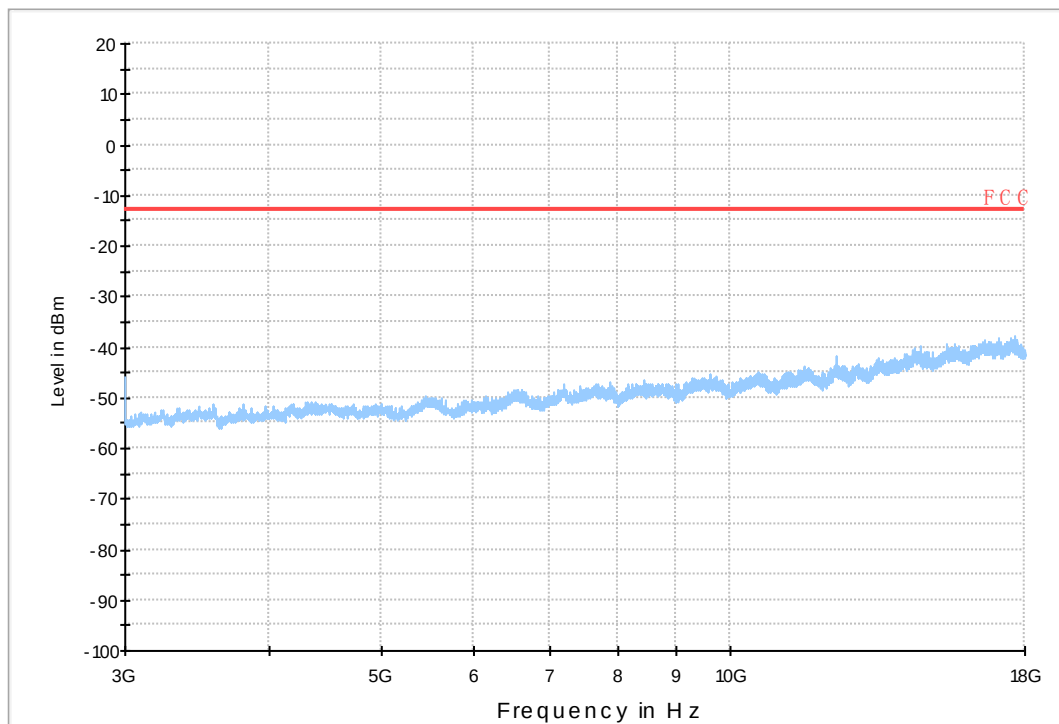
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L

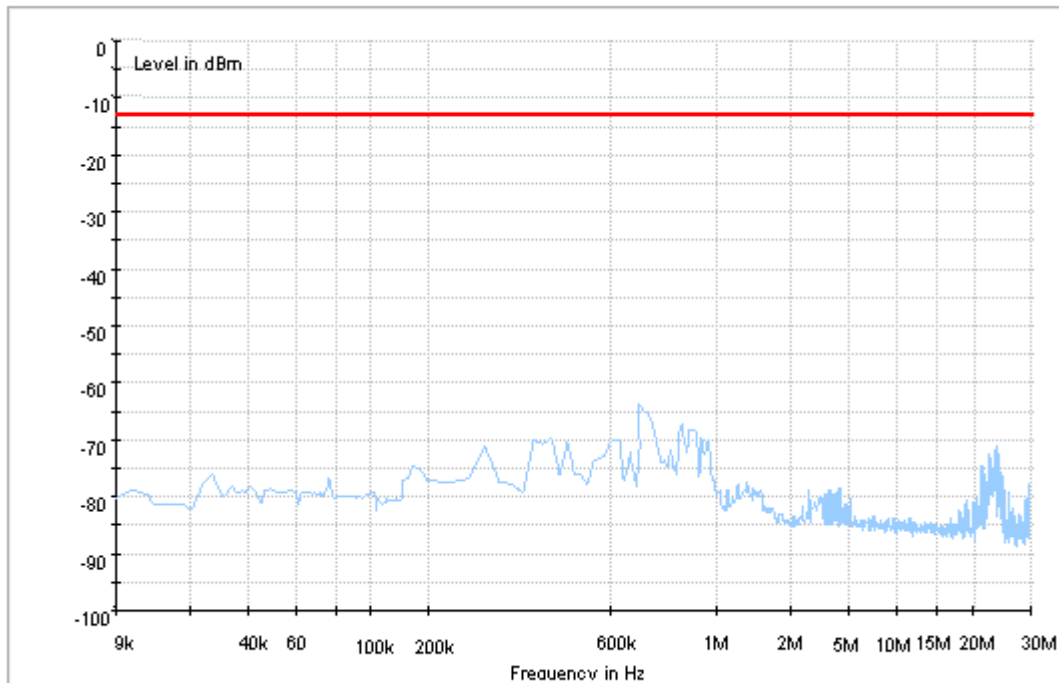


Copy of RSE-TX-DIRECTOR BELOW 1G_H

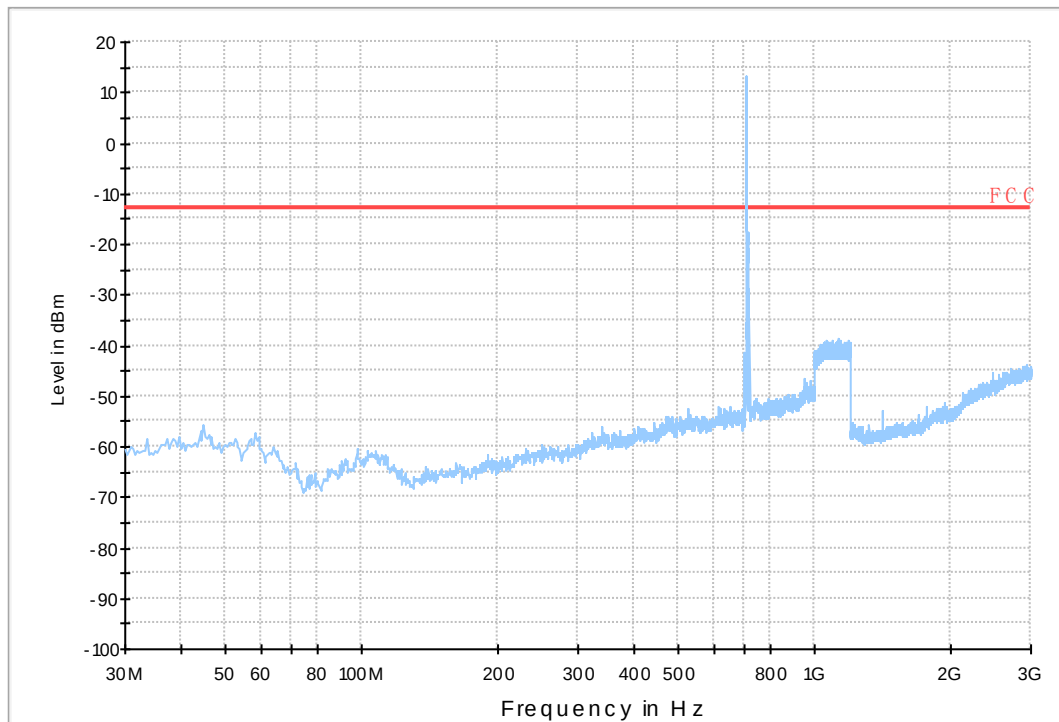


7.1.2 Test Band = BAND17_Ant2

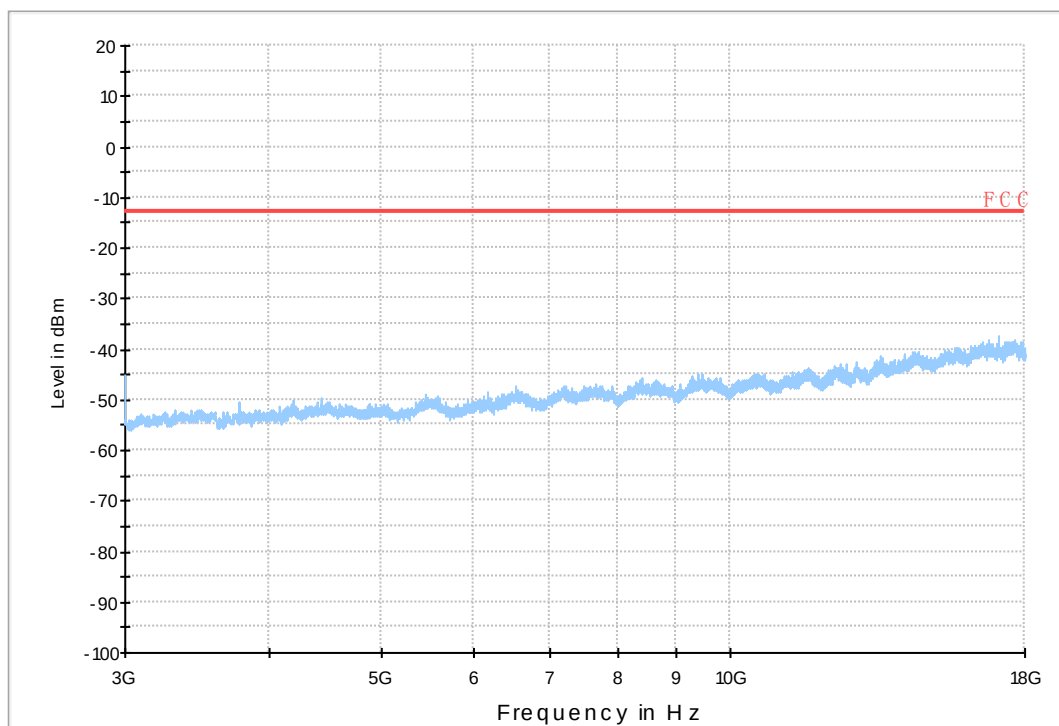
7.1.2.1 Test Bandwidth = 5



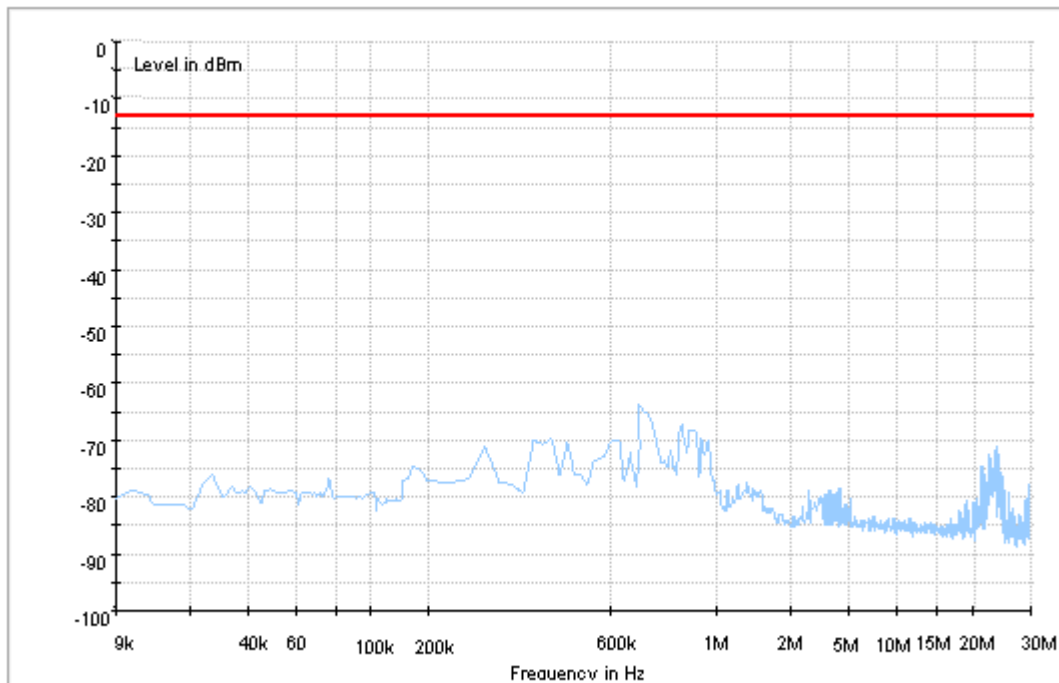
Copy of RSE-TX-DIRECTOR BELOW 1G_L



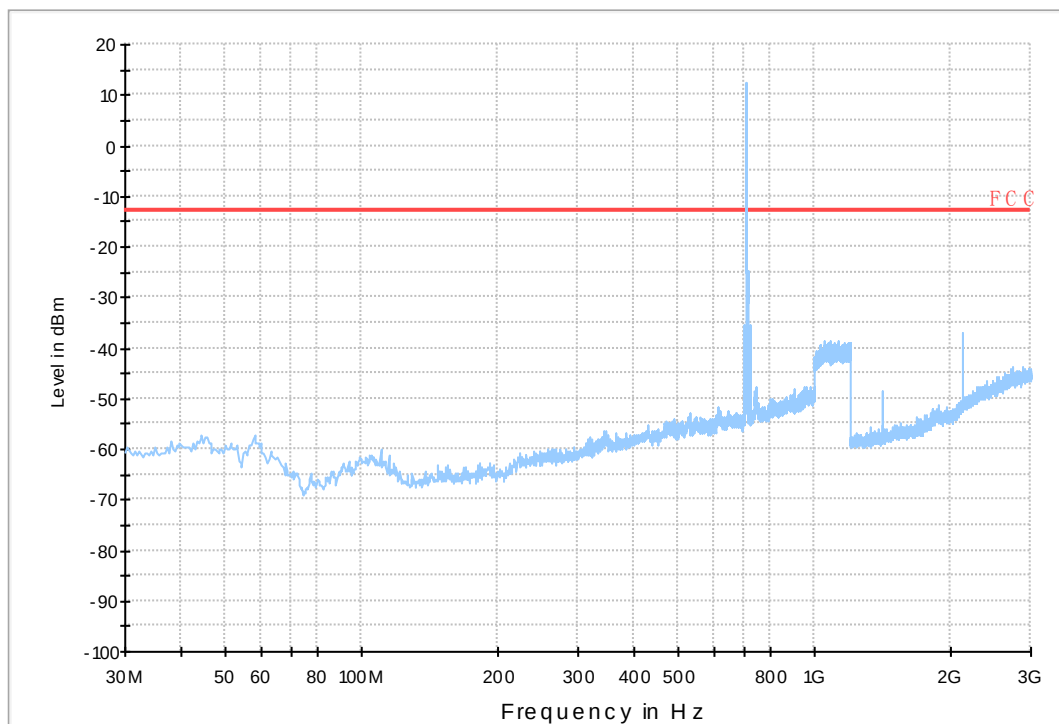
Copy of RSE-TX-DIRECTOR BELOW 1G_H



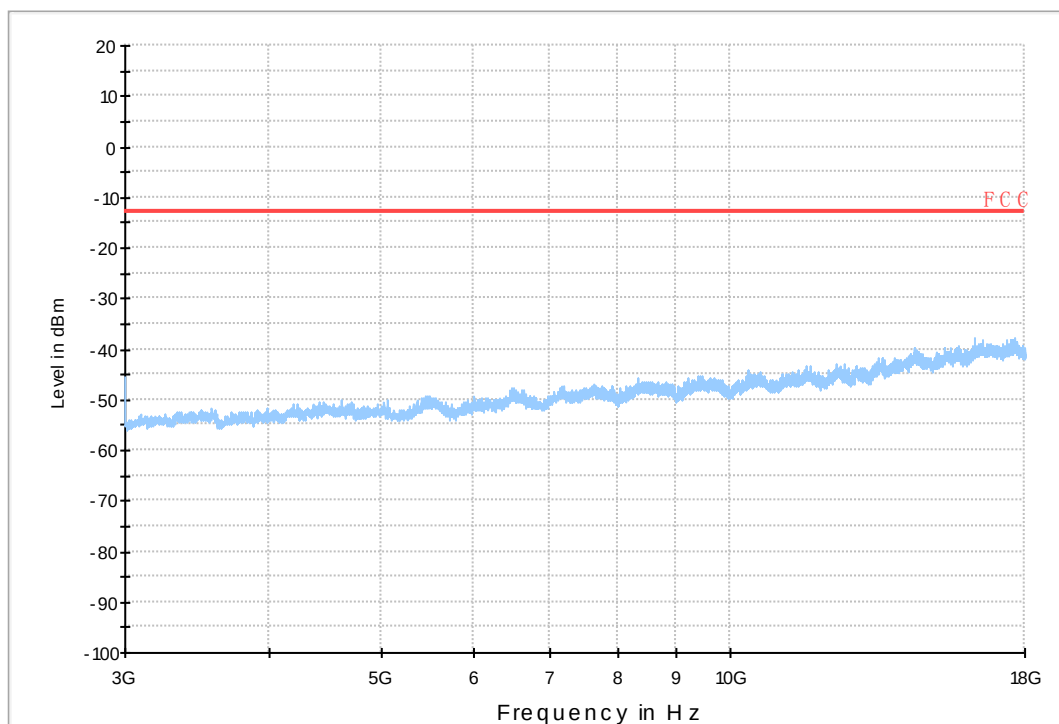
7.1.2.2 Test Bandwidth = 10



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
BAND17	LTE/TM1	5	LCH	TN	VL	1.25	0.00177	PASS
					VN	3.49	0.00494	PASS
					VH	3.48	0.00492	PASS
			MCH	TN	VL	-2.88	-0.00405	PASS
					VN	1.37	0.00193	PASS
					VH	-0.76	-0.00107	PASS
			HCH	TN	VL	-2.26	-0.00317	PASS
					VN	4.30	0.00602	PASS
					VH	-4.48	-0.00627	PASS
		10	LCH	TN	VL	-0.16	-0.00022	PASS
					VN	-2.49	-0.00351	PASS
					VH	1.94	0.00274	PASS
			MCH	TN	VL	-1.60	-0.00225	PASS
					VN	-0.21	-0.00029	PASS
					VH	1.67	0.00235	PASS
			HCH	TN	VL	-3.27	-0.00460	PASS
					VN	5.00	0.00703	PASS
					VH	2.59	0.00364	PASS
	LTE/TM2	5	LCH	TN	VL	0.27	0.00038	PASS
					VN	-3.75	-0.00531	PASS
					VH	-2.79	-0.00395	PASS
			MCH	TN	VL	-3.27	-0.00461	PASS
					VN	1.02	0.00144	PASS
					VH	-2.53	-0.00356	PASS
			HCH	TN	VL	-1.01	-0.00141	PASS
					VN	4.36	0.00611	PASS
					VH	4.26	0.00597	PASS
		10	LCH	TN	VL	3.19	0.00450	PASS
					VN	3.34	0.00471	PASS
					VH	1.62	0.00229	PASS
			MCH	TN	VL	1.02	0.00144	PASS
					VN	-3.54	-0.00498	PASS
					VH	-3.54	-0.00498	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VH	-4.39	-0.00618	PASS
					VL	2.24	0.00315	PASS
					VN	-0.99	-0.00139	PASS
					VH	3.52	0.00496	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
BAND17	LTE/TM1	5	LCH	VN	-30	-4.77	-0.00675	PASS
					-20	-4.13	-0.00584	PASS
					-10	-0.46	-0.00065	PASS
					0	1.62	0.00229	PASS
					10	1.65	0.00233	PASS
					20	7.43	0.01052	PASS
					30	-1.52	-0.00215	PASS
					40	3.57	0.00505	PASS
					50	1.42	0.00200	PASS
			MCH	VN	-30	5.36	0.00755	PASS
					-20	6.49	0.00914	PASS
					-10	-1.07	-0.00151	PASS
					0	0.82	0.00115	PASS
					10	-3.03	-0.00426	PASS
					20	6.15	0.00867	PASS
					30	1.70	0.00239	PASS
					40	-0.11	-0.00016	PASS
					50	-1.32	-0.00185	PASS
			HCH	VN	-30	6.09	0.00853	PASS
					-20	-1.81	-0.00254	PASS
					-10	2.61	0.00366	PASS
					0	3.87	0.00543	PASS
					10	-0.74	-0.00104	PASS
					20	4.01	0.00562	PASS
					30	-0.25	-0.00034	PASS
					40	6.43	0.00901	PASS
					50	7.01	0.00983	PASS
		10	LCH	VN	-30	1.50	0.00211	PASS
					-20	-3.89	-0.00549	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-2.81	-0.00396	PASS
					0	6.82	0.00962	PASS
					10	1.74	0.00245	PASS
					20	0.91	0.00128	PASS
					30	-2.23	-0.00315	PASS
					40	8.97	0.01265	PASS
					50	5.73	0.00809	PASS
			MCH	VN	-30	3.76	0.00529	PASS
					-20	9.73	0.01370	PASS
					-10	-0.06	-0.00009	PASS
					0	3.35	0.00472	PASS
					10	4.47	0.00630	PASS
					20	1.64	0.00231	PASS
					30	6.50	0.00915	PASS
					40	0.04	0.00006	PASS
					50	5.24	0.00738	PASS
			HCH	VN	-30	8.41	0.01183	PASS
					-20	6.17	0.00868	PASS
					-10	8.26	0.01161	PASS
					0	3.18	0.00448	PASS
					10	5.10	0.00718	PASS
					20	-1.77	-0.00248	PASS
					30	6.16	0.00866	PASS
					40	1.54	0.00216	PASS
					50	7.25	0.01020	PASS
	LTE/TM2	5	LCH	VN	-30	5.62	0.00796	PASS
					-20	8.04	0.01137	PASS
					-10	-4.02	-0.00569	PASS
					0	1.25	0.00178	PASS
					10	6.04	0.00855	PASS
					20	2.84	0.00402	PASS
					30	8.37	0.01185	PASS
			MCH	VN	40	8.56	0.01211	PASS
					50	-4.98	-0.00706	PASS
					-30	4.96	0.00699	PASS
					-20	0.62	0.00087	PASS
					-10	4.90	0.00690	PASS
					0	8.58	0.01209	PASS
					10	-1.02	-0.00144	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	5.48	0.00772	PASS
					30	0.54	0.00077	PASS
					40	2.16	0.00305	PASS
					50	2.71	0.00382	PASS
			HCH	VN	-30	3.10	0.00435	PASS
					-20	5.74	0.00804	PASS
					-10	9.69	0.01358	PASS
					0	-4.96	-0.00695	PASS
					10	6.47	0.00907	PASS
					20	3.40	0.00476	PASS
					30	7.41	0.01039	PASS
					40	6.54	0.00916	PASS
					50	1.49	0.00209	PASS
		10	LCH	VN	-30	5.89	0.00831	PASS
					-20	0.81	0.00115	PASS
					-10	-3.87	-0.00546	PASS
					0	7.21	0.01017	PASS
					10	8.49	0.01197	PASS
					20	1.72	0.00243	PASS
					30	5.48	0.00773	PASS
					40	1.76	0.00249	PASS
					50	-1.50	-0.00211	PASS
			MCH	VN	-30	-0.50	-0.00070	PASS
					-20	-4.05	-0.00571	PASS
					-10	1.53	0.00215	PASS
					0	8.61	0.01213	PASS
					10	6.70	0.00943	PASS
					20	-0.48	-0.00068	PASS
					30	7.22	0.01017	PASS
					40	1.76	0.00248	PASS
					50	4.26	0.00599	PASS
			HCH	VN	-30	-0.19	-0.00027	PASS
					-20	1.56	0.00219	PASS
					-10	7.99	0.01124	PASS
					0	-4.29	-0.00603	PASS
					10	8.78	0.01235	PASS
					20	9.03	0.01271	PASS
					30	9.30	0.01308	PASS
					40	-4.63	-0.00651	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					50	-0.61	-0.00085	PASS

END