Appendix for test report

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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]	EIRP [dBm]
BAND30	LTE/TM1	5	LCH	RB1#0	21.8	22.4
				RB1#13	21.79	22.39
				RB1#24	21.58	22.18
				RB12#0	20.51	21.11
				RB12#6	20.5	21.1
				RB12#13	20.47	21.07
				RB25#0	20.52	21.12
			MCH	RB1#0	21.59	22.19
				RB1#13	21.8	22.4
				RB1#24	21.64	22.24
				RB12#0	20.53	21.13
				RB12#6	20.65	21.25
				RB12#13	20.55	21.15

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]
				RB25#0	20.62	21.22
			HCH	RB1#0	21.82	22.42
				RB1#13	21.82	22.42
				RB1#24	21.65	22.25
				RB12#0	20.54	21.14
				RB12#6	20.73	21.33
				RB12#13	20.63	21.23
				RB25#0	20.67	21.27
		10	LCH/MCH /HCH	RB1#0	21.78	22.38
				RB1#25	21.62	22.22
				RB1#49	21.6	22.2
				RB25#0	20.67	21.27
				RB25#13	20.56	21.16
				RB25#25	20.53	21.13
				RB50#0	20.61	21.21
	LTE/TM2	5	LCH	RB1#0	20.8	21.4
				RB1#13	20.84	21.44

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]
				RB1#24	20.71	21.31
				RB12#0	19.55	20.15
				RB12#6	19.53	20.13
				RB12#13	19.43	20.03
				RB25#0	19.45	20.05
			MCH	RB1#0	20.92	21.52
				RB1#13	20.98	21.58
				RB1#24	20.97	21.57
				RB12#0	19.64	20.24
				RB12#6	19.65	20.25
				RB12#13	19.58	20.18
				RB25#0	19.58	20.18
			HCH	RB1#0	21.05	21.65
				RB1#13	21.24	21.84
				RB1#24	20.95	21.55
				RB12#0	19.63	20.23
				RB12#6	19.72	20.32

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]
				RB12#13	19.72	20.32
				RB25#0	19.67	20.27
		10	LCH/MCH /HCH	RB1#0	21.03	21.63
				RB1#25	21.06	21.66
				RB1#49	21.25	21.85
				RB25#0	19.69	20.29
				RB25#13	19.52	20.12
				RB25#25	19.53	20.13
				RB50#0	19.68	20.28

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm/5MHz]	EIRP[dBm/5MHz]	Limit [dBm/5 MHz]	Verdict
BAND 30	LTE/TM1	5	LCH	RB25#0	20.52	21.12	43	PASS
			MCH	RB25#0	20.62	21.22	43	PASS
			HCH	RB25#0	20.67	21.27	43	PASS
		10	LCH/MCH/HCH	RB50#0	20.61	21.21	43	PASS
	LTE/TM2	5	LCH	RB25#0	19.45	20.05	43	PASS
			MCH	RB25#0	19.58	20.18	43	PASS
			HCH	RB25#0	19.67	20.27	43	PASS
		10	LCH/MCH/HCH	RB50#0	19.68	20.28	43	PASS

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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,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b, SGP=Signal Generator Level

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

Detector: RMS

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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
BAND30	LTE/TM1	5	LCH	RB1#0	4.02	13	PASS
				RB1#13	3.99	13	PASS
				RB1#24	3.85	13	PASS
				RB12#0	4.93	13	PASS
				RB12#6	4.78	13	PASS
				RB12#13	4.85	13	PASS
				RB25#0	5.45	13	PASS
			MCH	RB1#0	3.92	13	PASS
				RB1#13	3.65	13	PASS
				RB1#24	3.51	13	PASS
				RB12#0	4.82	13	PASS
				RB12#6	4.54	13	PASS
				RB12#13	4.58	13	PASS
				RB25#0	5.23	13	PASS
			HCH	RB1#0	3.78	13	PASS
				RB1#13	3.37	13	PASS
				RB1#24	3.37	13	PASS
				RB12#0	4.6	13	PASS
				RB12#6	4.35	13	PASS
				RB12#13	4.38	13	PASS
				RB25#0	4.97	13	PASS
		10	LCH	RB1#0	4.11	13	PASS
				RB1#25	3.8	13	PASS
				RB1#49	3.44	13	PASS
				RB25#0	4.83	13	PASS
				RB25#13	4.67	13	PASS
				RB25#25	4.54	13	PASS
				RB50#0	4.84	13	PASS
	LTE/TM2	5	LCH	RB1#0	5.05	13	PASS
				RB1#13	4.88	13	PASS

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Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#24	4.79	13	PASS
				RB12#0	5.78	13	PASS
				RB12#6	5.72	13	PASS
				RB12#13	5.75	13	PASS
				RB25#0	6.38	13	PASS
			MCH	RB1#0	4.92	13	PASS
				RB1#13	4.52	13	PASS
				RB1#24	4.3	13	PASS
				RB12#0	5.62	13	PASS
				RB12#6	5.5	13	PASS
				RB12#13	5.47	13	PASS
				RB25#0	6.13	13	PASS
			HCH	RB1#0	4.56	13	PASS
				RB1#13	4	13	PASS
				RB1#24	4.08	13	PASS
				RB12#0	5.41	13	PASS
				RB12#6	5.24	13	PASS
				RB12#13	5.24	13	PASS
				RB25#0	6.02	13	PASS
		10	LCH	RB1#0	5.08	13	PASS
				RB1#25	4.9	13	PASS
				RB1#49	4.46	13	PASS
				RB25#0	5.83	13	PASS
				RB25#13	5.57	13	PASS
				RB25#25	5.52	13	PASS
				RB50#0	6.49	13	PASS

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3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

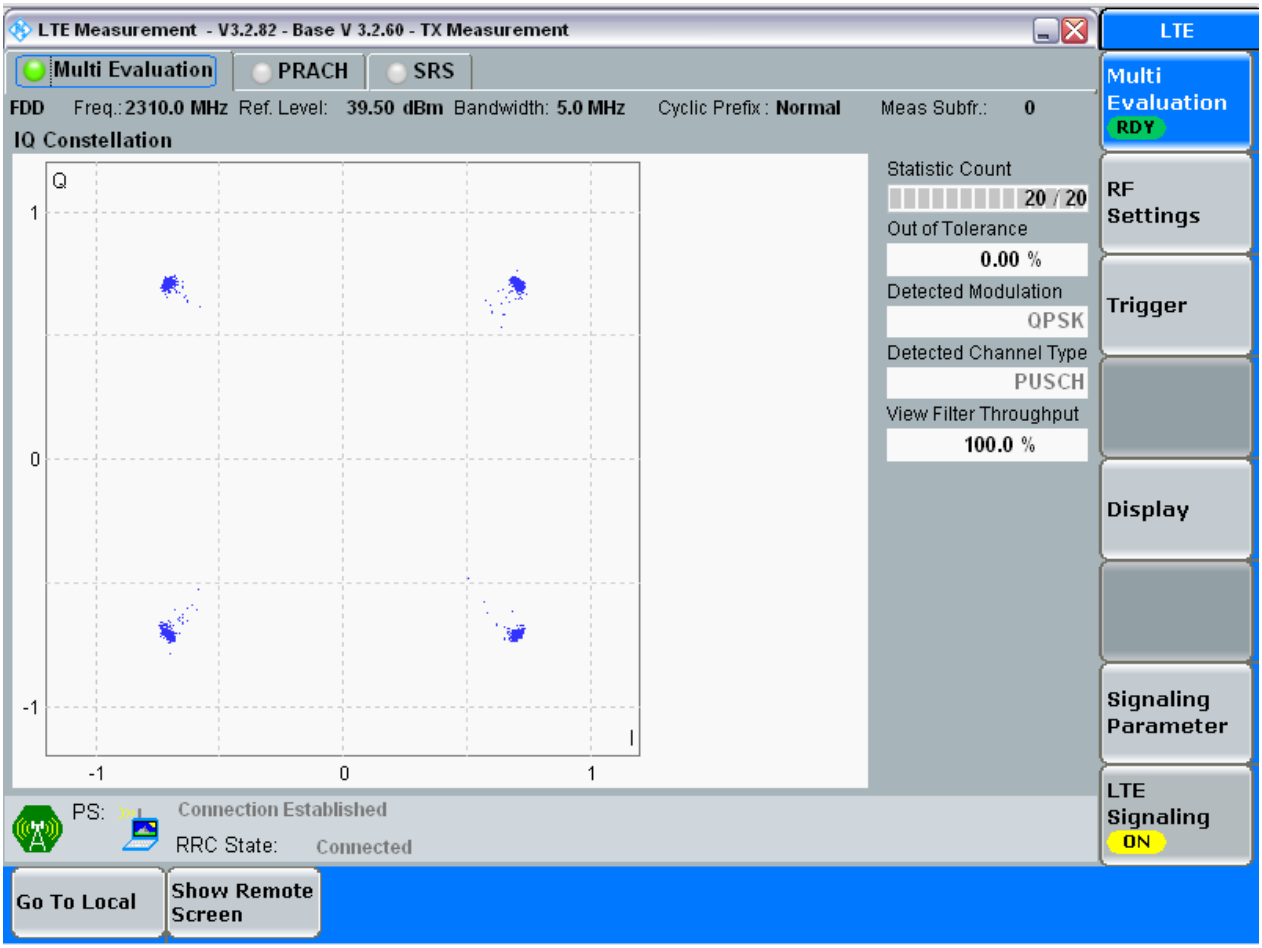
3.1.1 Test Band = BAND30

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



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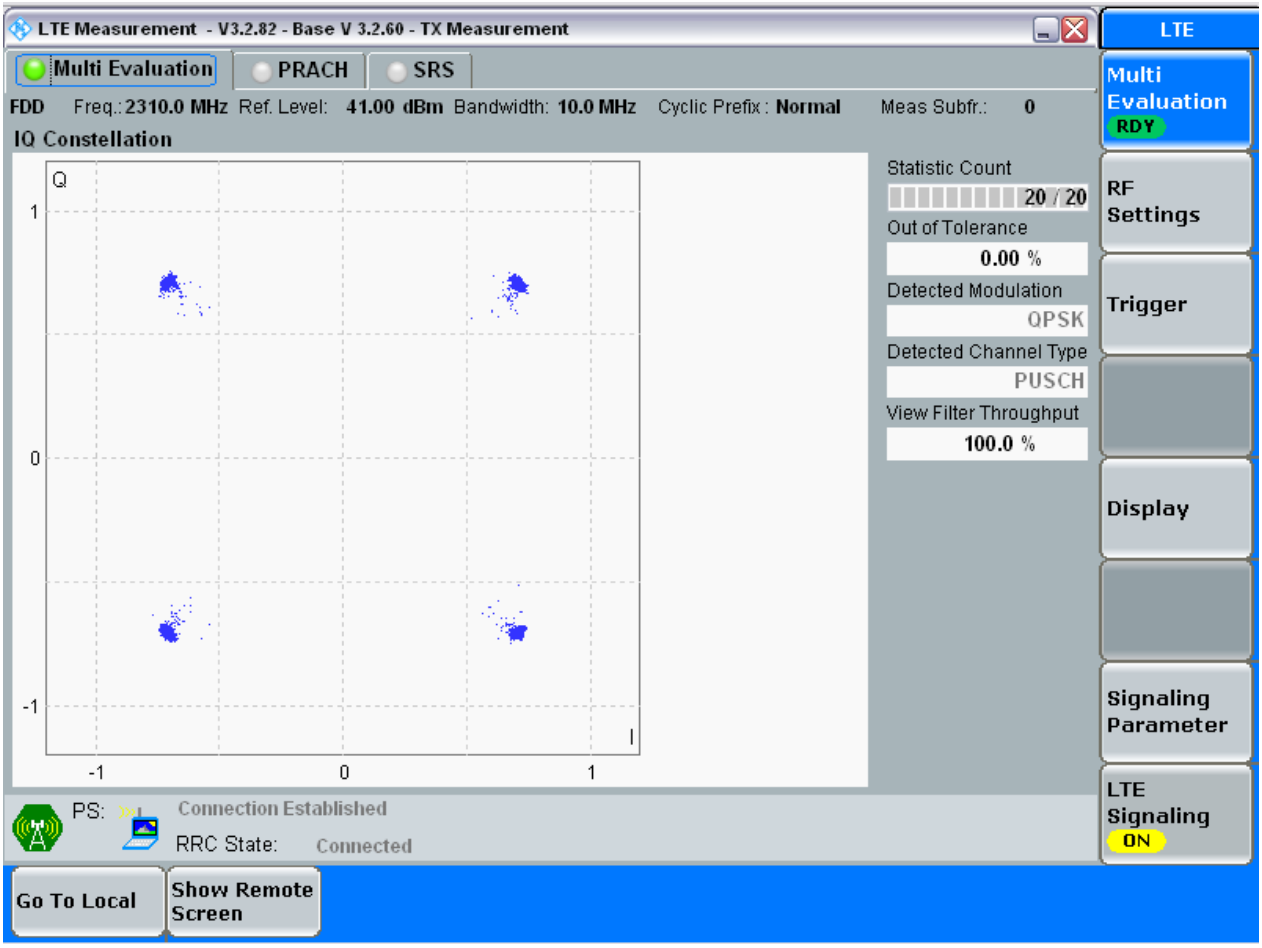
3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

3.1.1.1.2.1.1 Test RB = RB50#0



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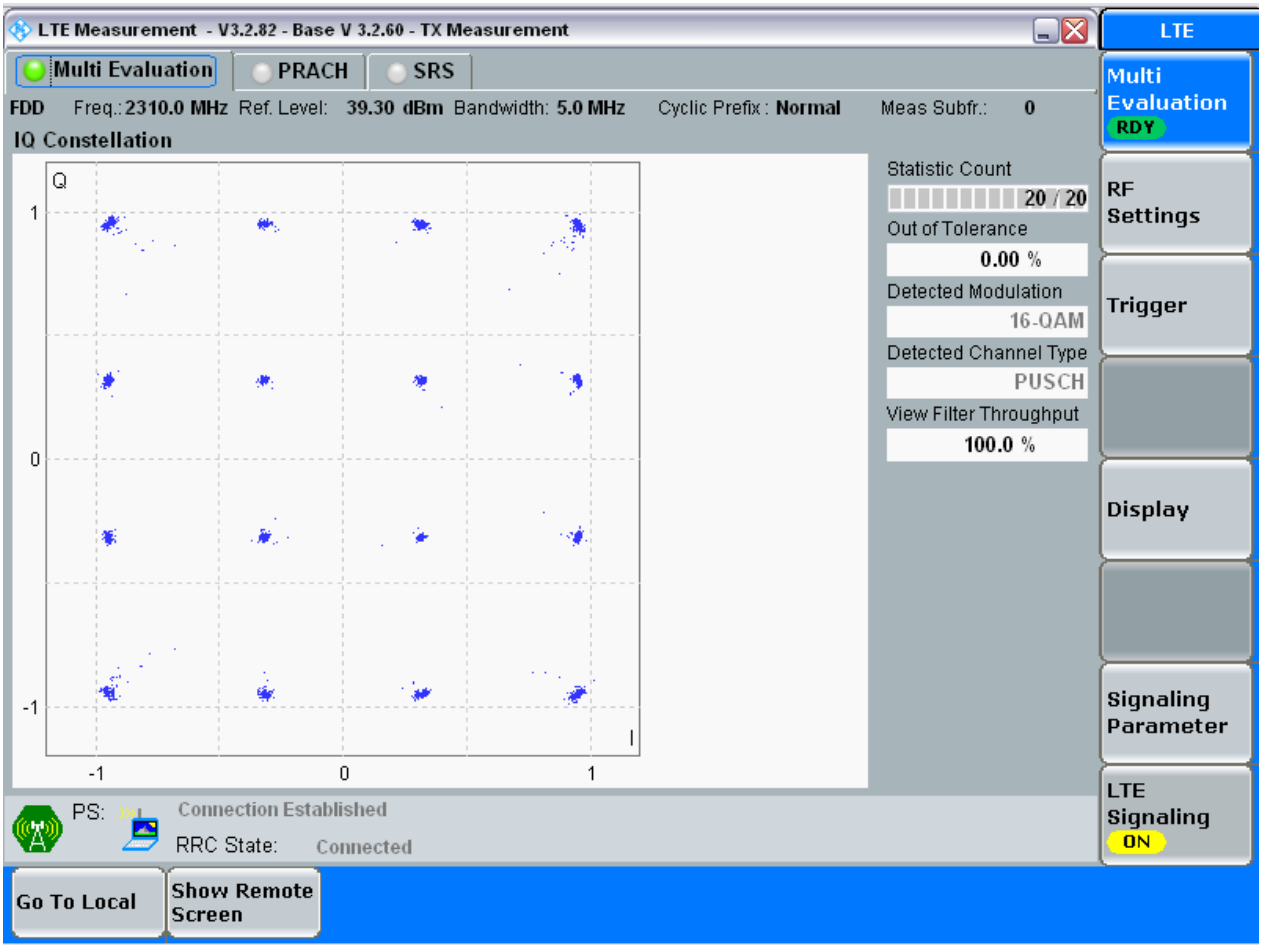
3.1.1.2 Test Mode = LTE/TM2

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



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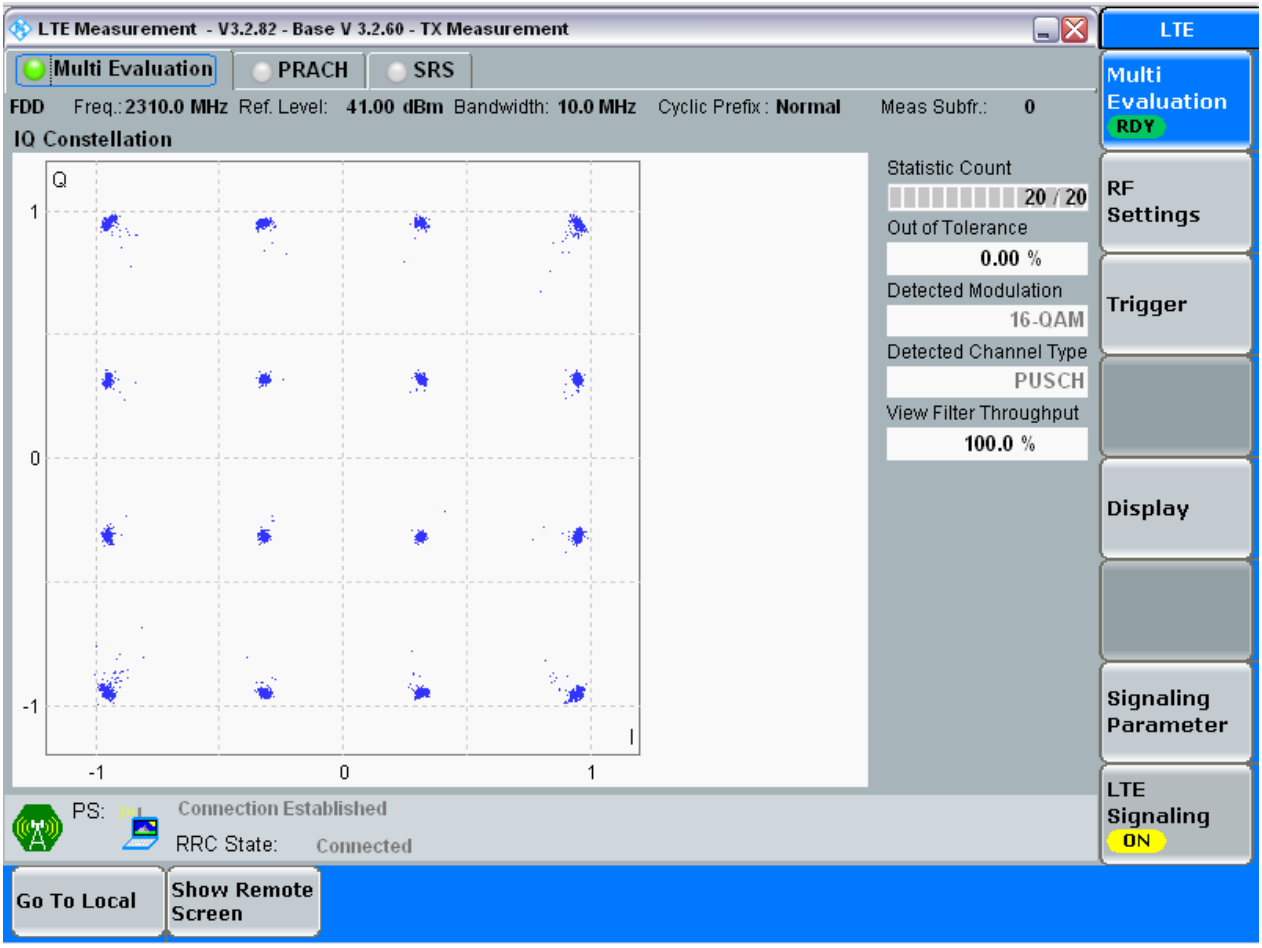
3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

3.1.1.2.2.1.1 Test RB = RB50#0



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4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BAND30	LTE/TM1	5	LCH	RB25#0	4.50	4.88	Pass
			MCH	RB25#0	4.50	4.84	Pass
			HCH	RB25#0	4.50	4.87	Pass
		10	LCH	RB50#0	8.96	9.57	Pass
			MCH	RB50#0	8.97	9.55	Pass
			HCH	RB50#0	8.97	9.55	Pass
	LTE/TM2	5	LCH	RB25#0	4.50	4.84	Pass
			MCH	RB25#0	4.50	4.85	Pass
			HCH	RB25#0	4.50	4.86	Pass
		10	LCH	RB50#0	8.96	9.58	Pass
			MCH	RB50#0	8.96	9.56	Pass
			HCH	RB50#0	8.96	9.58	Pass

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Part II - Test Plots

4.1 For LTE

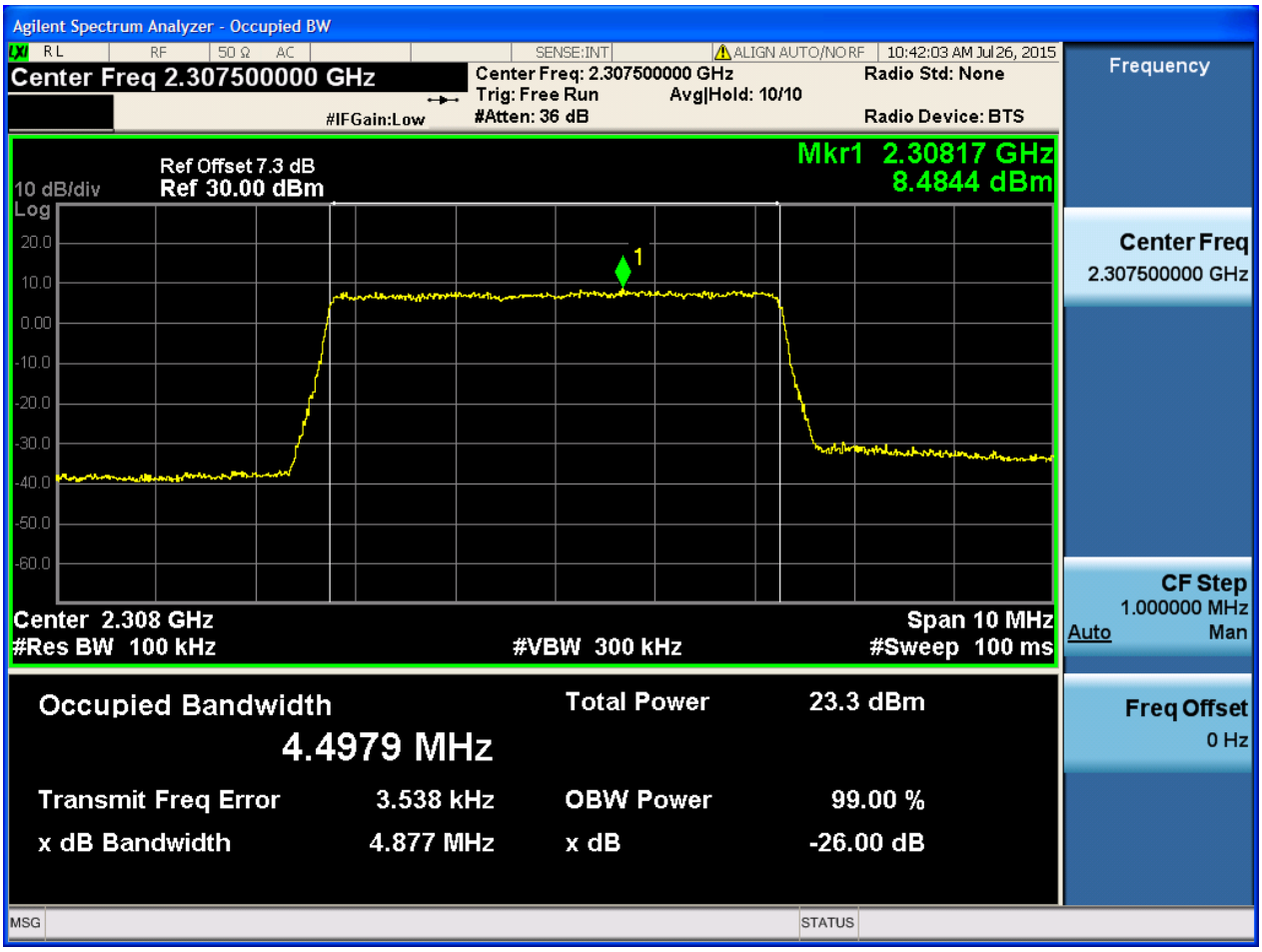
4.1.1 Test Band = BAND30

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

4.1.1.1.1.1.1 Test RB = RB25#0



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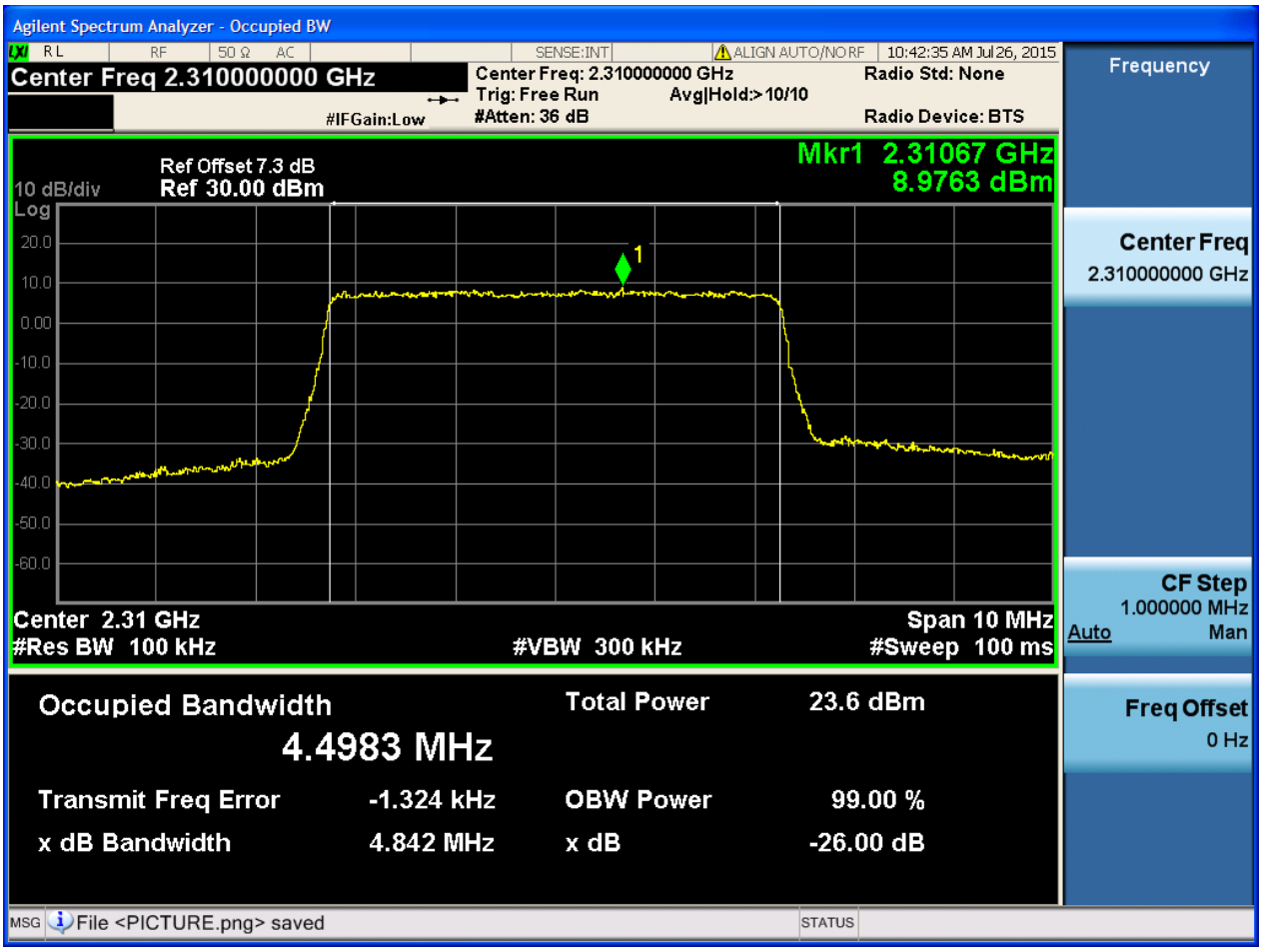
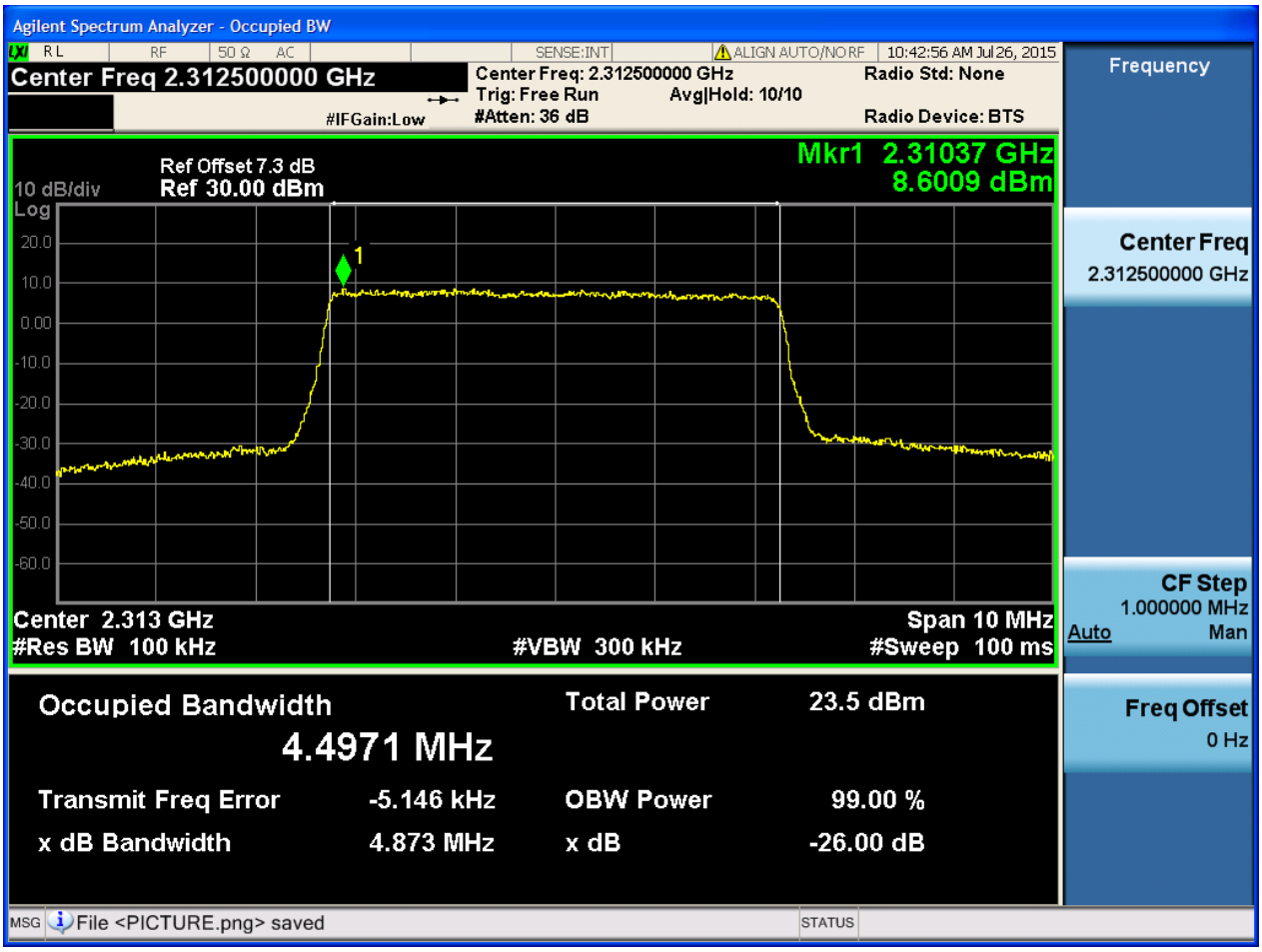
4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB25#0



4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0



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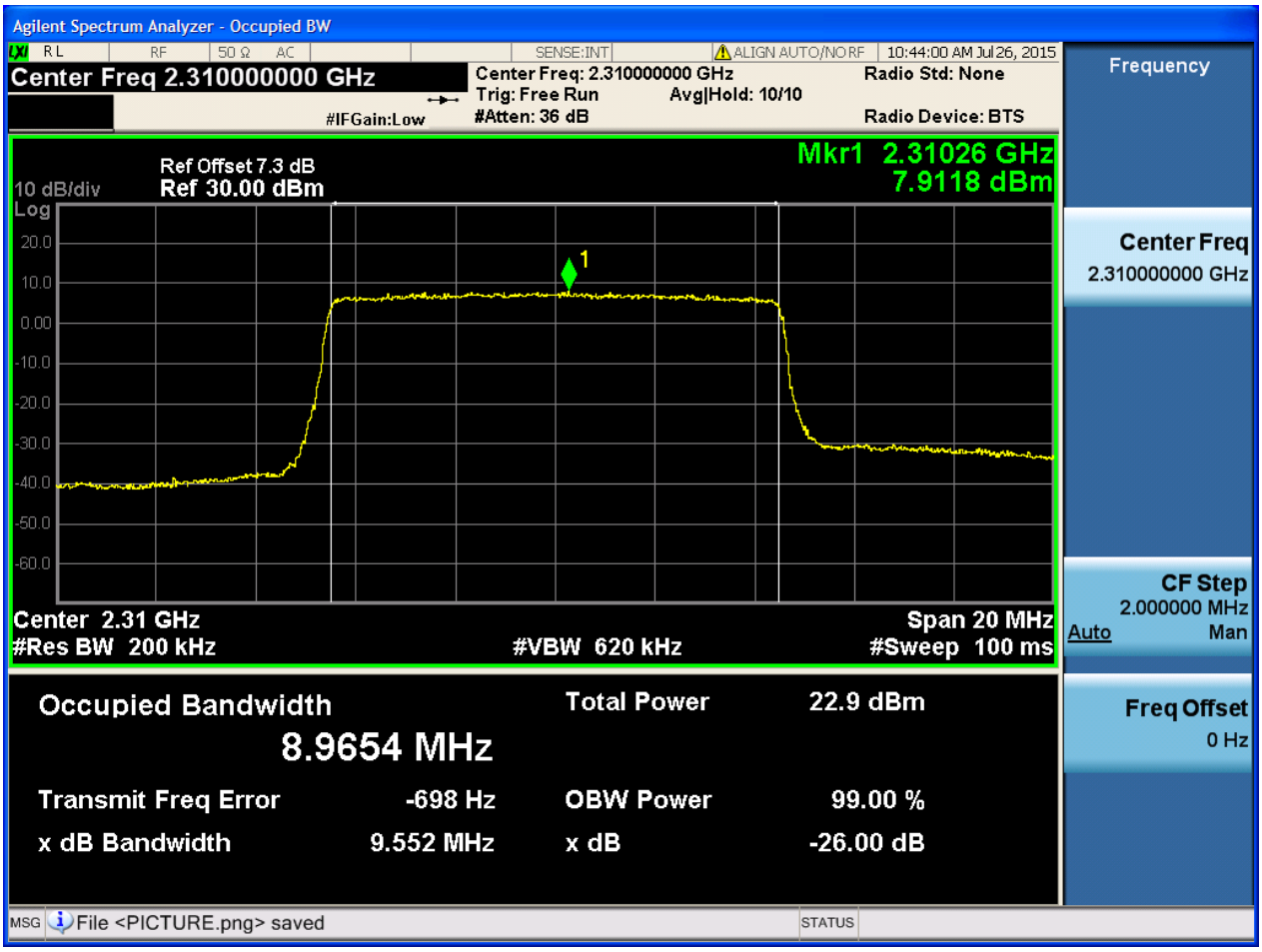
4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB50#0



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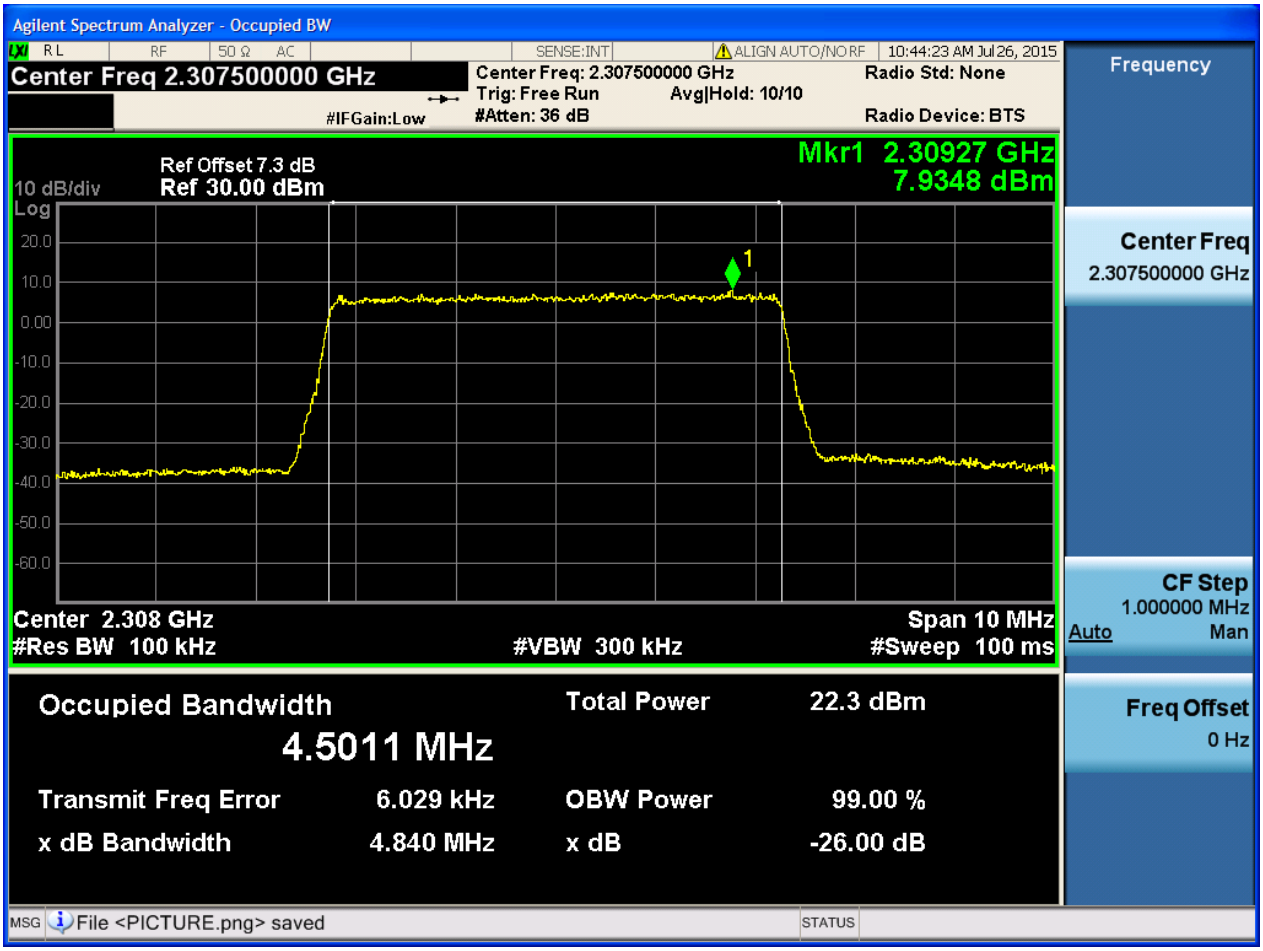
4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB25#0



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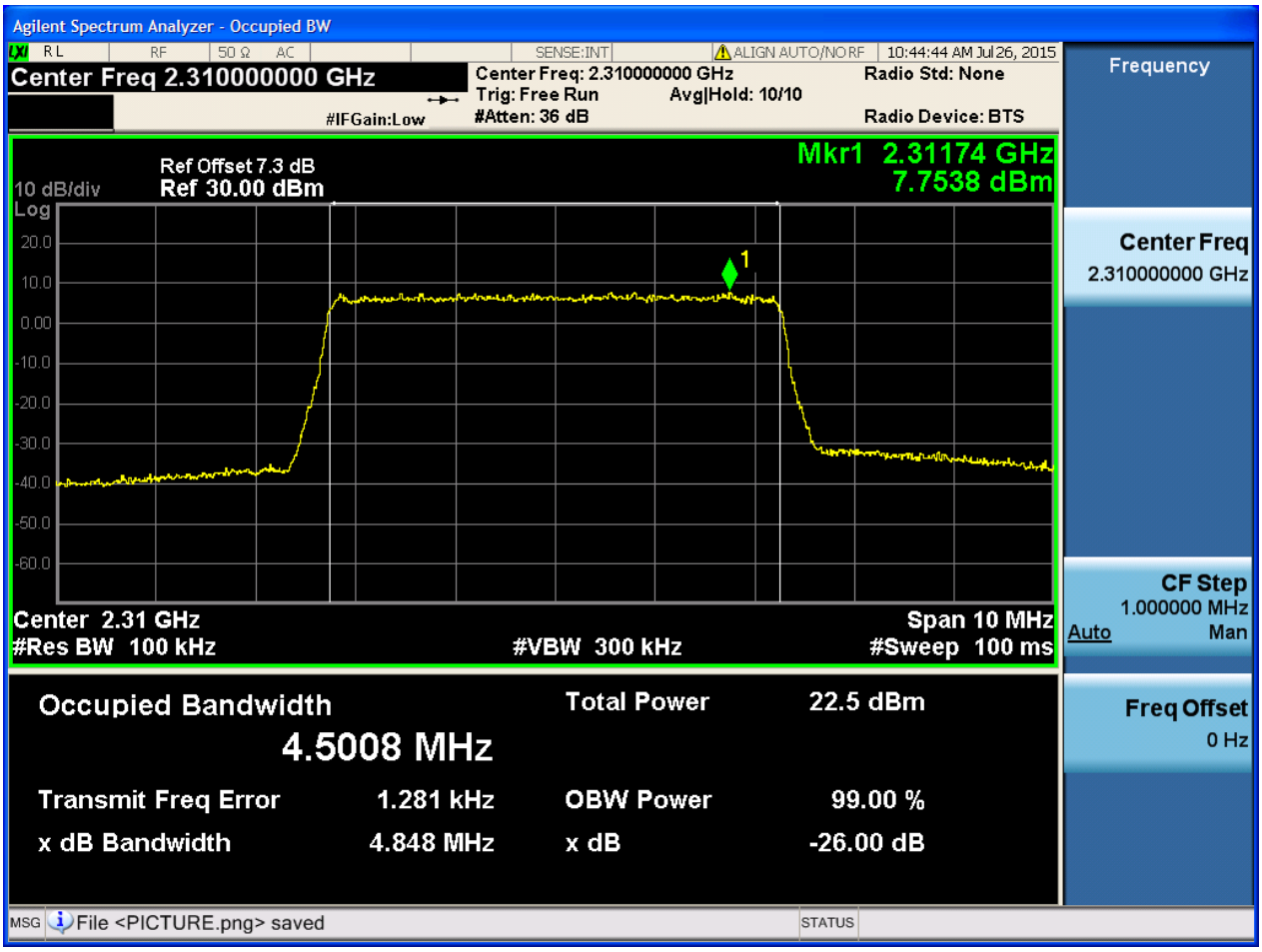
4.1.1.2.1.2 Test Channel = MCH

4.1.1.2.1.2.1 Test RB = RB25#0



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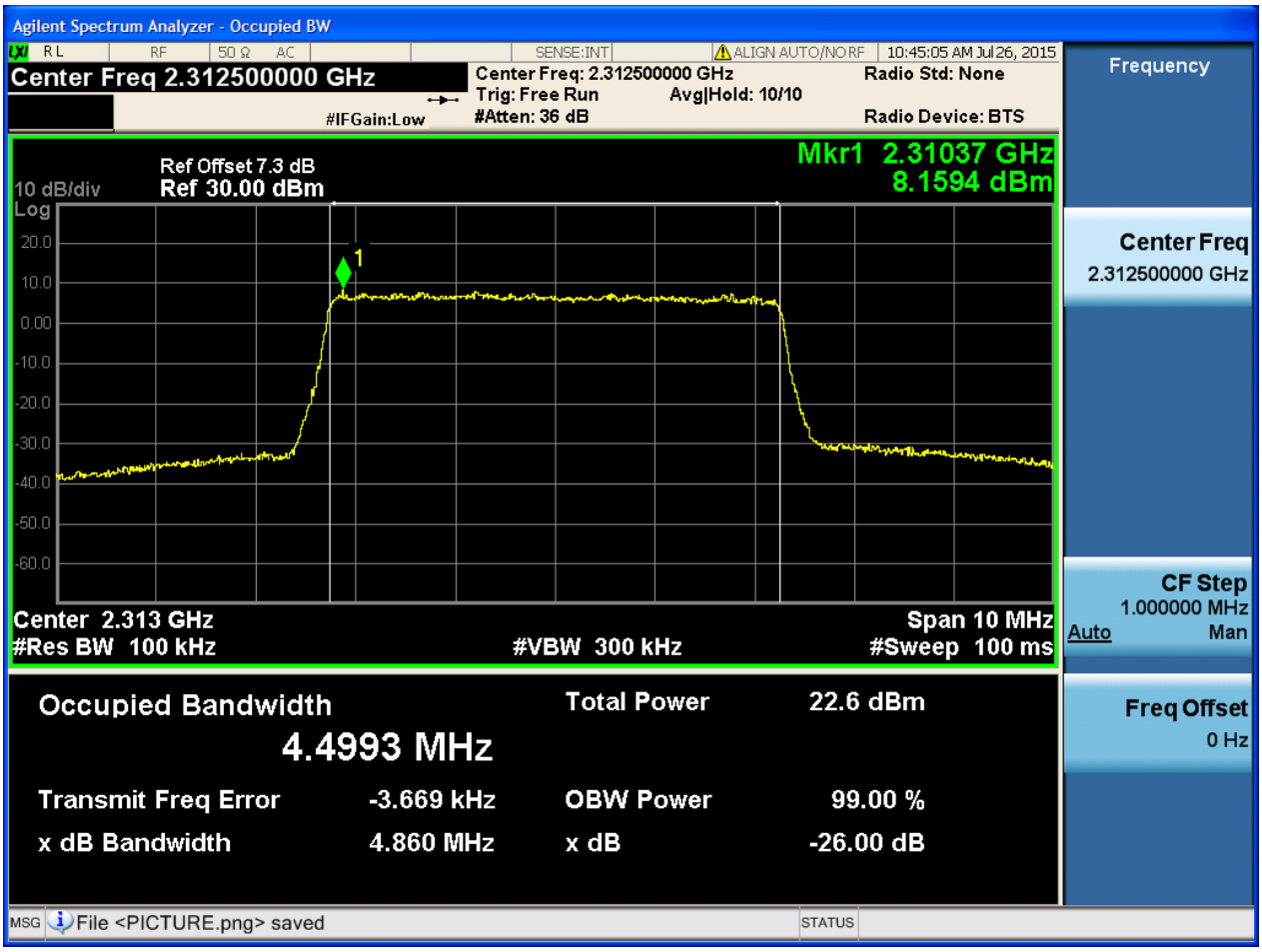
4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0



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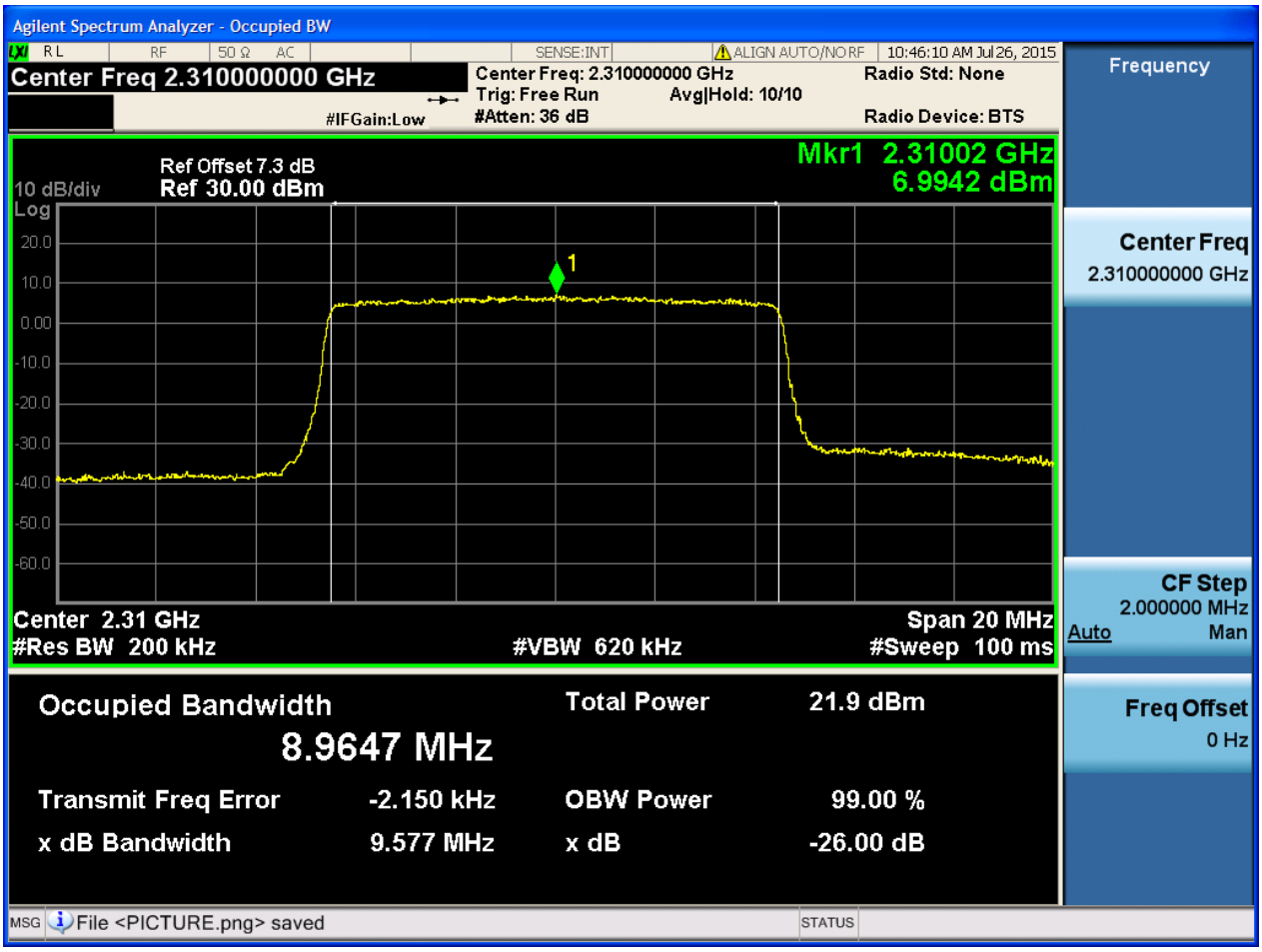
4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH//MCH/HCH

4.1.1.2.2.1.1 Test RB = RB50#0



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5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

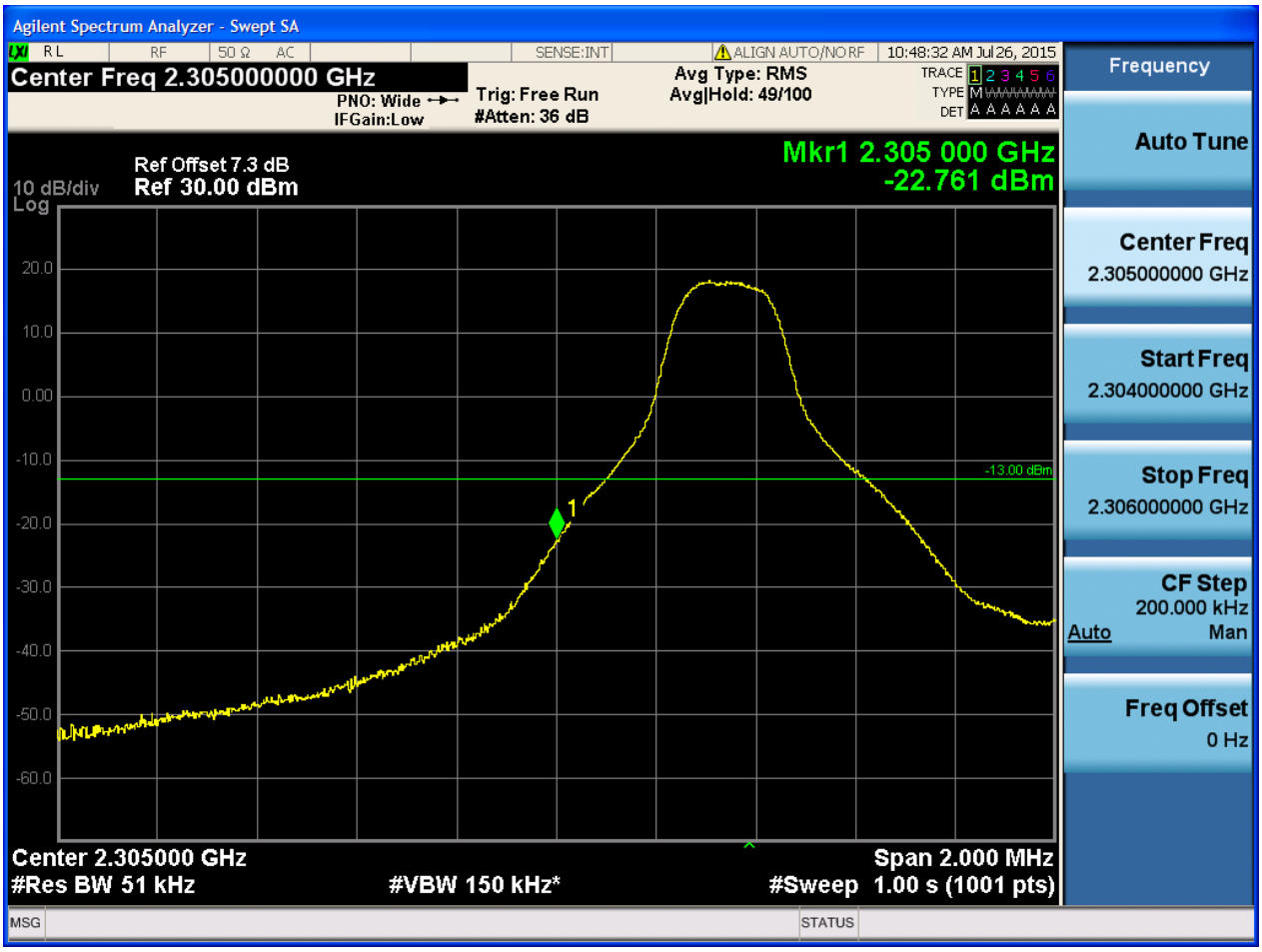
5.1.1 Test Band = BAND30

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



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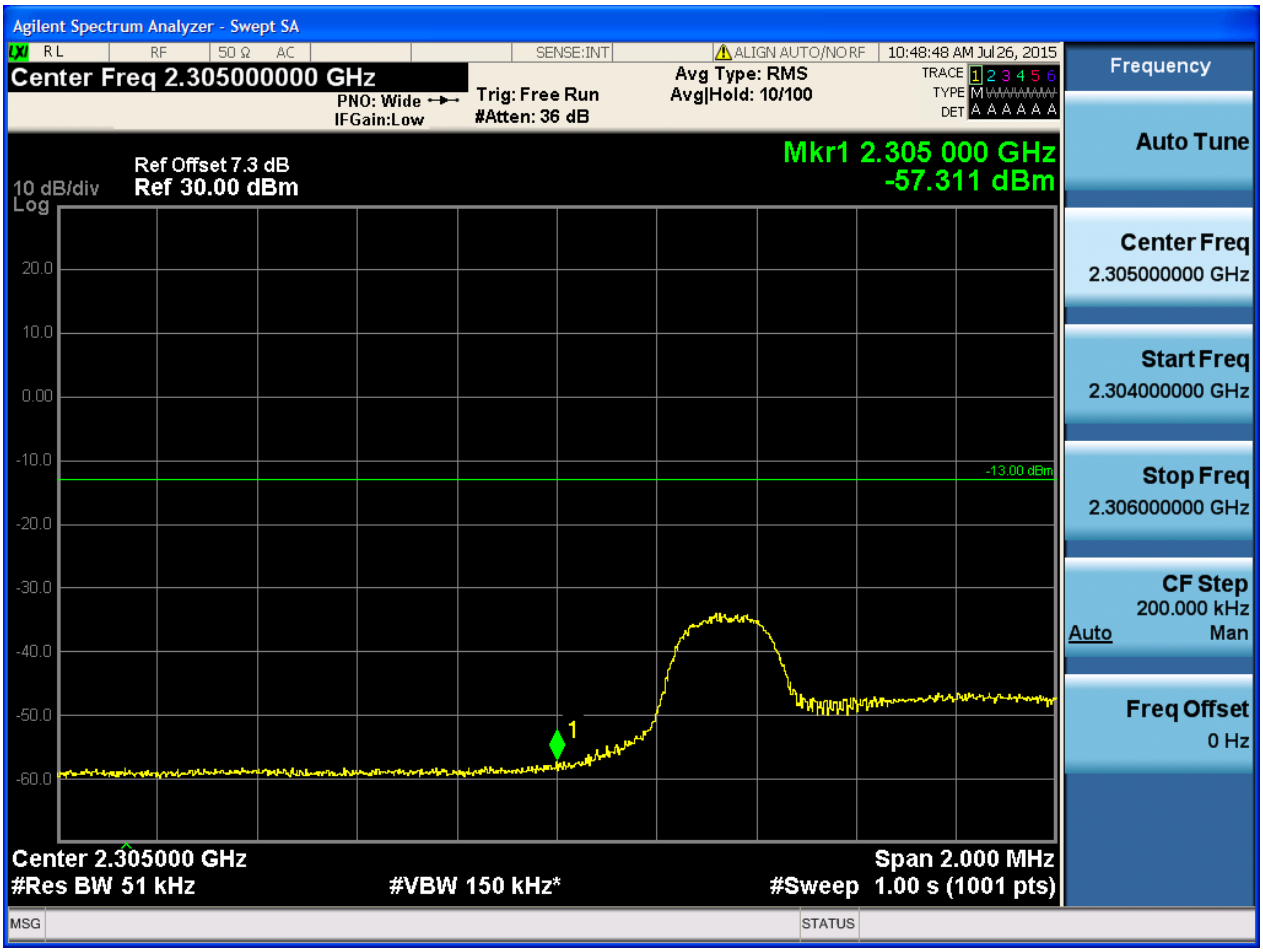
5.1.1.1.1.1.2 Test RB = RB1#24



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5.1.1.1.1.1.3 Test RB = RB12#6

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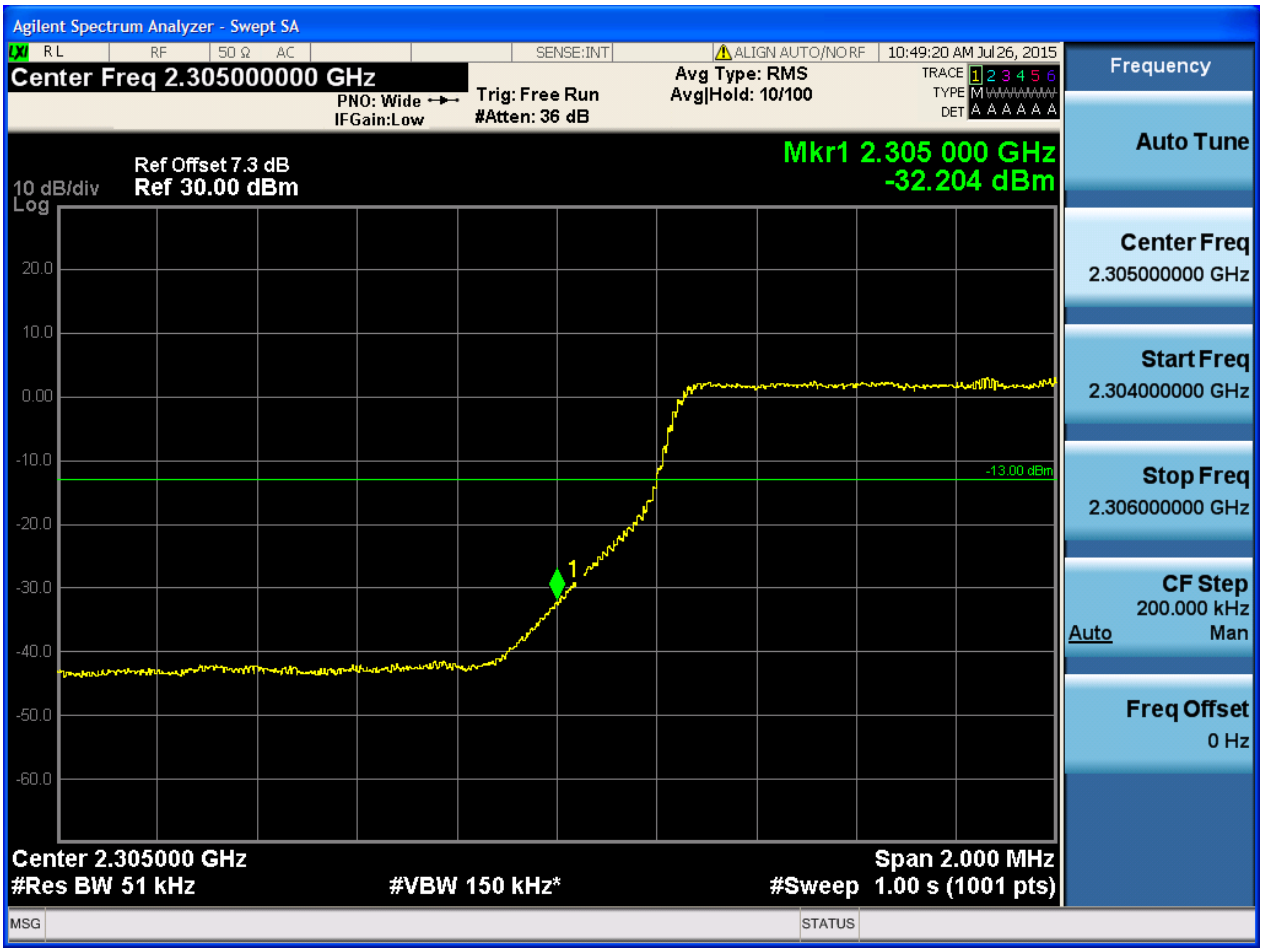
5.1.1.1.1.1.4 Test RB = RB25#0



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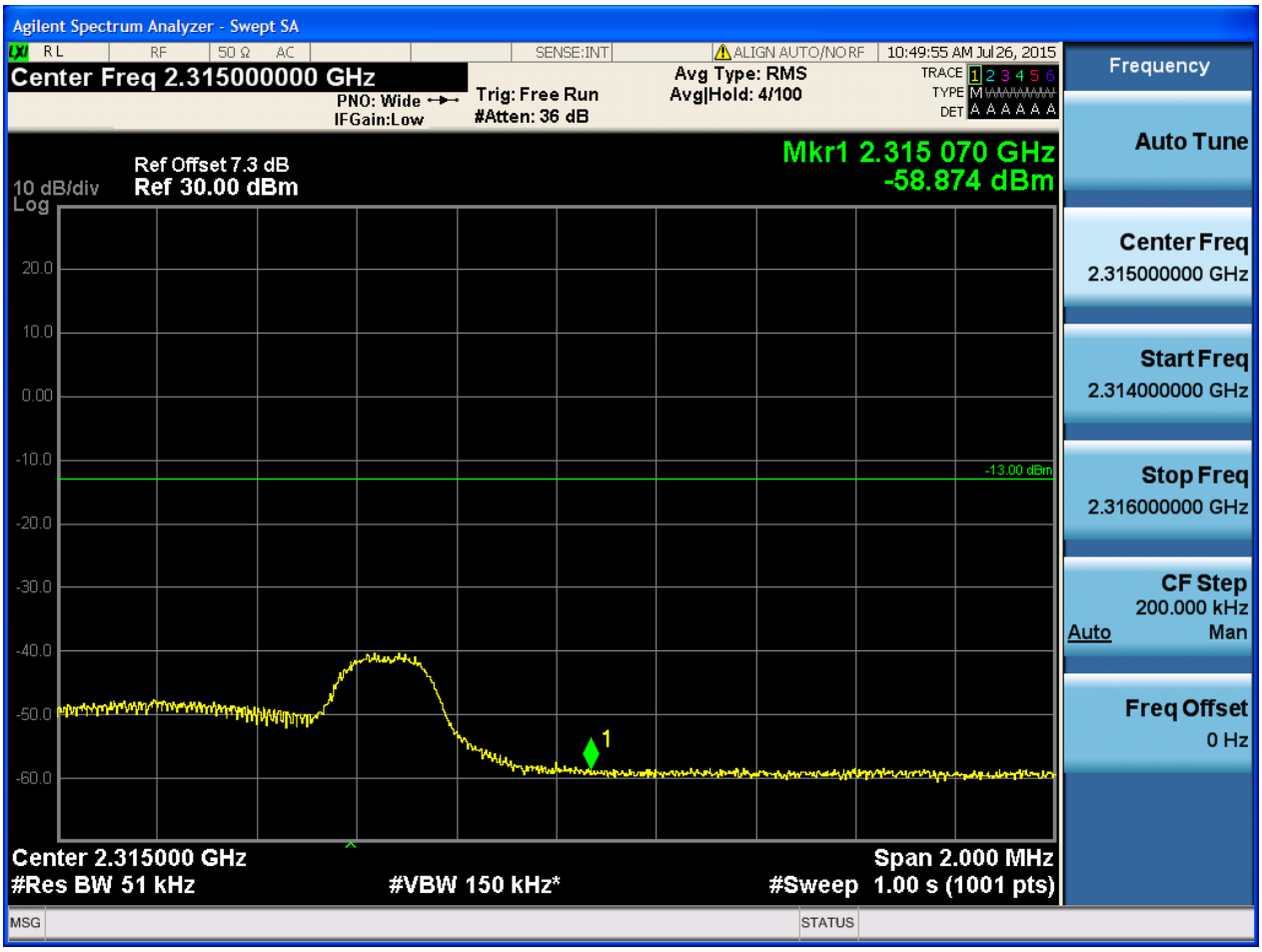
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0



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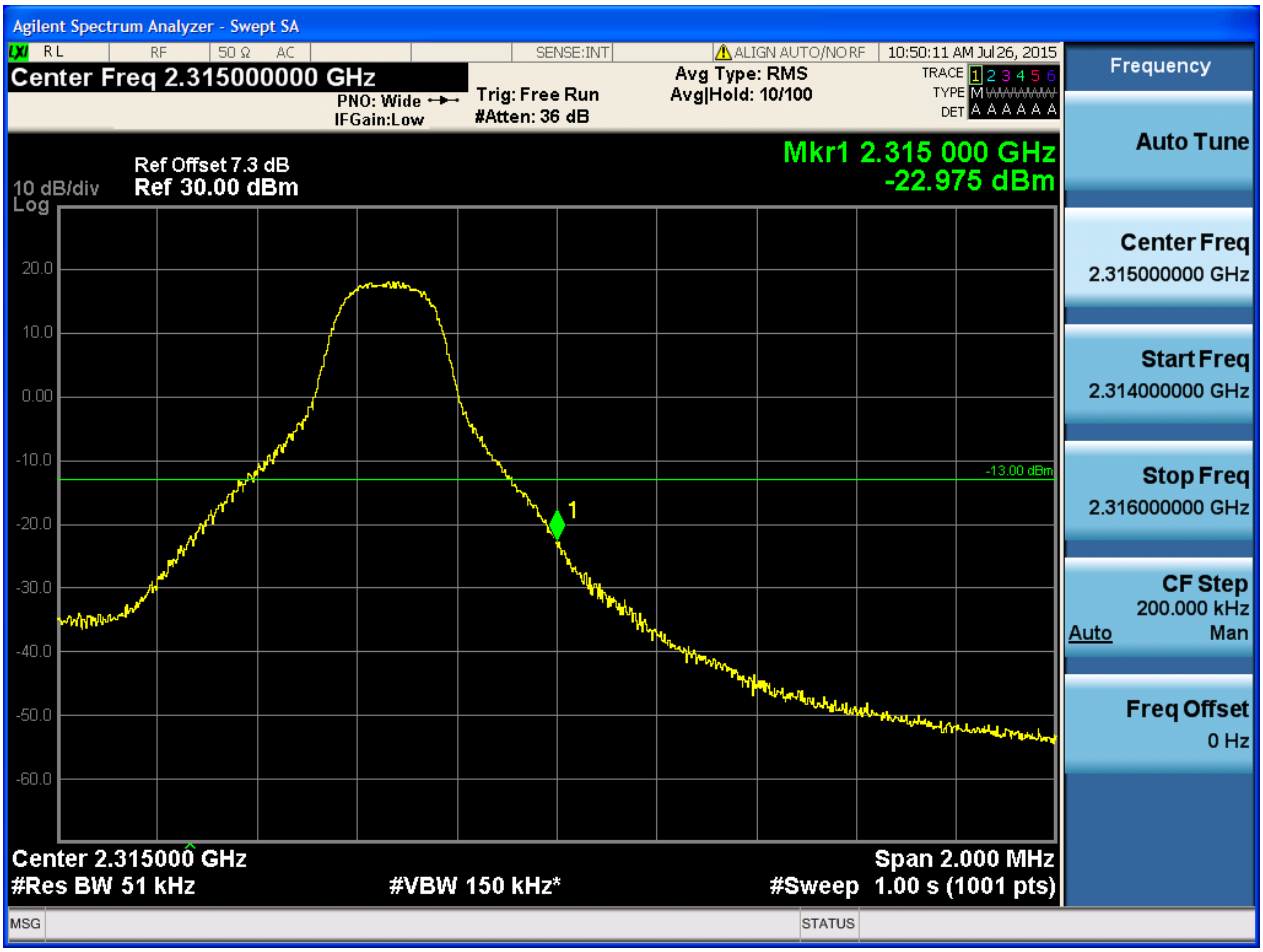
5.1.1.1.1.2.2 Test RB = RB1#24



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5.1.1.1.1.2.3 Test RB = RB12#6

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5.1.1.1.1.2.4 Test RB = RB25#0

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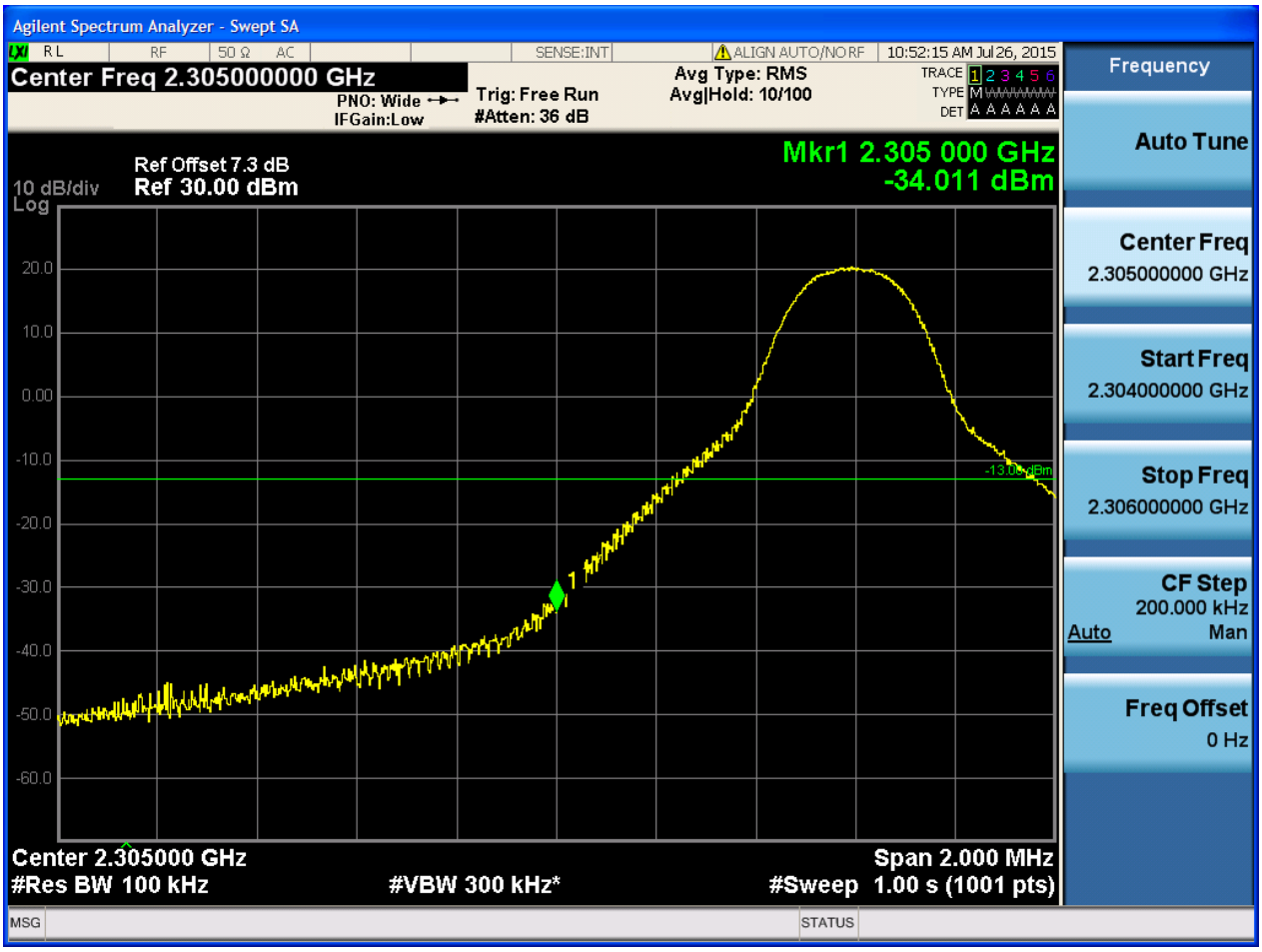
5.1.1.1.2 Test Bandwidth = 10

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0



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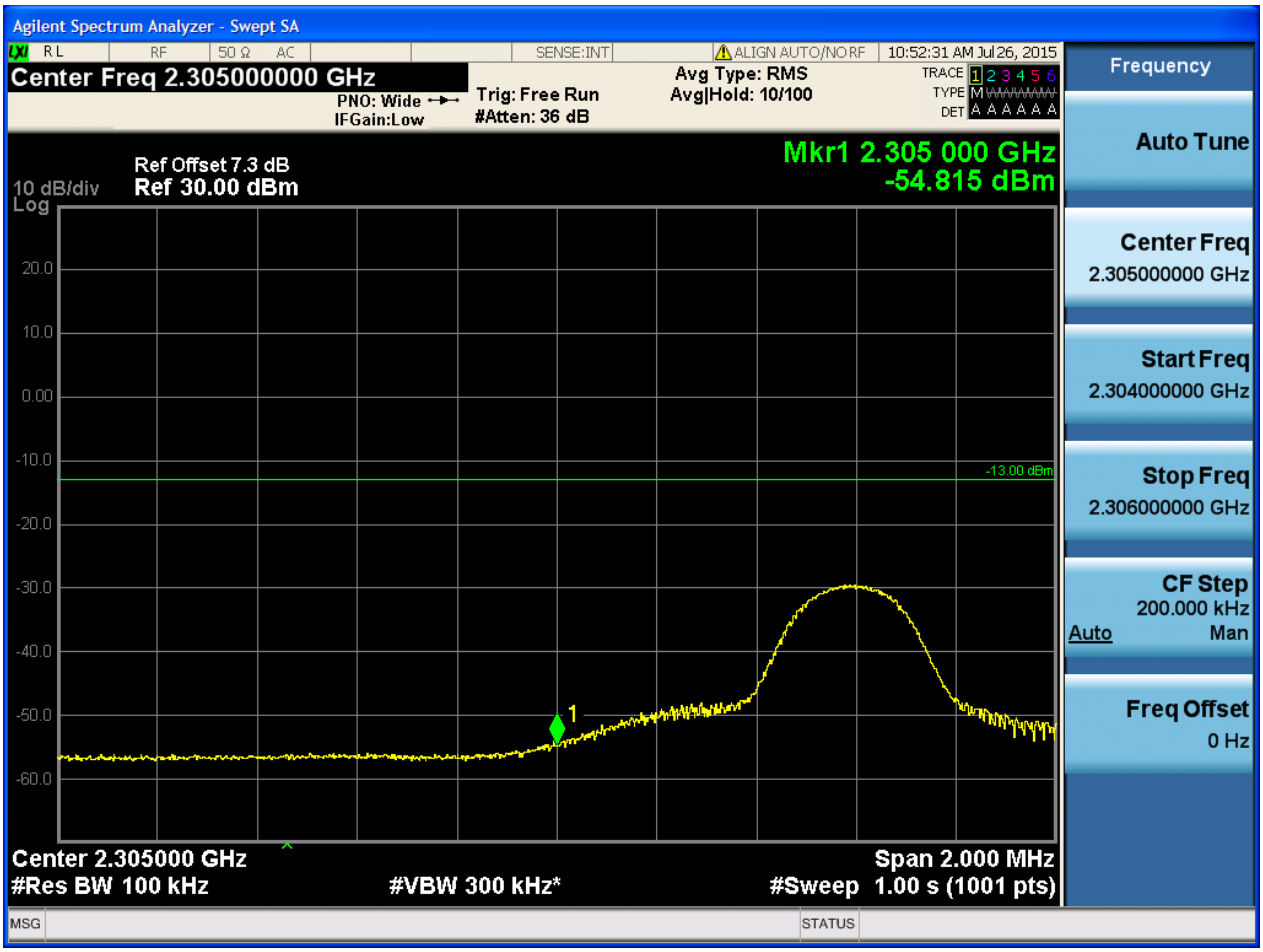
5.1.1.1.2.1.2 Test RB = RB1#49



5.1.1.1.2.1.3 Test RB = RB25#13

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5.1.1.1.2.1.4 Test RB = RB50#0

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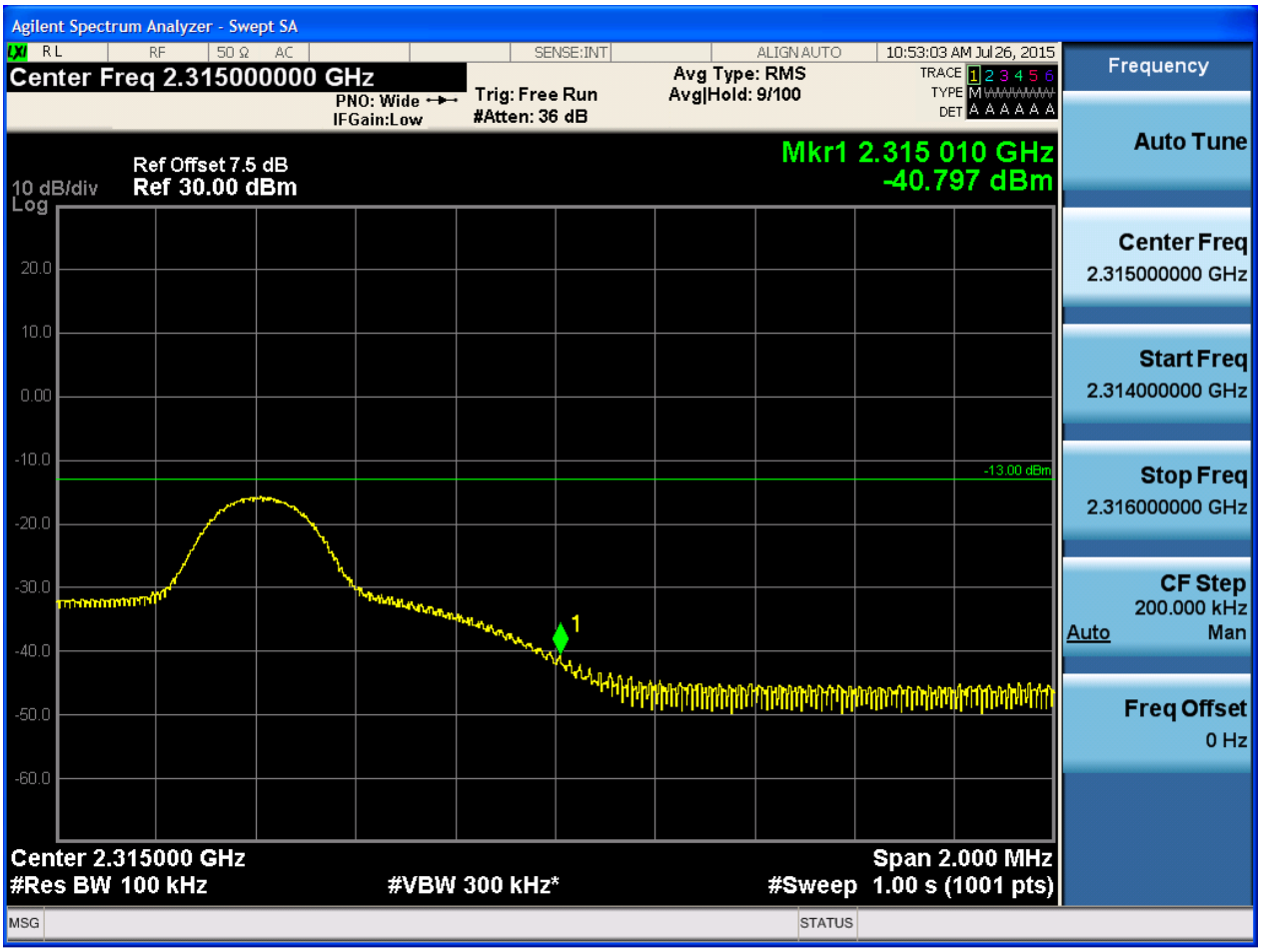
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0



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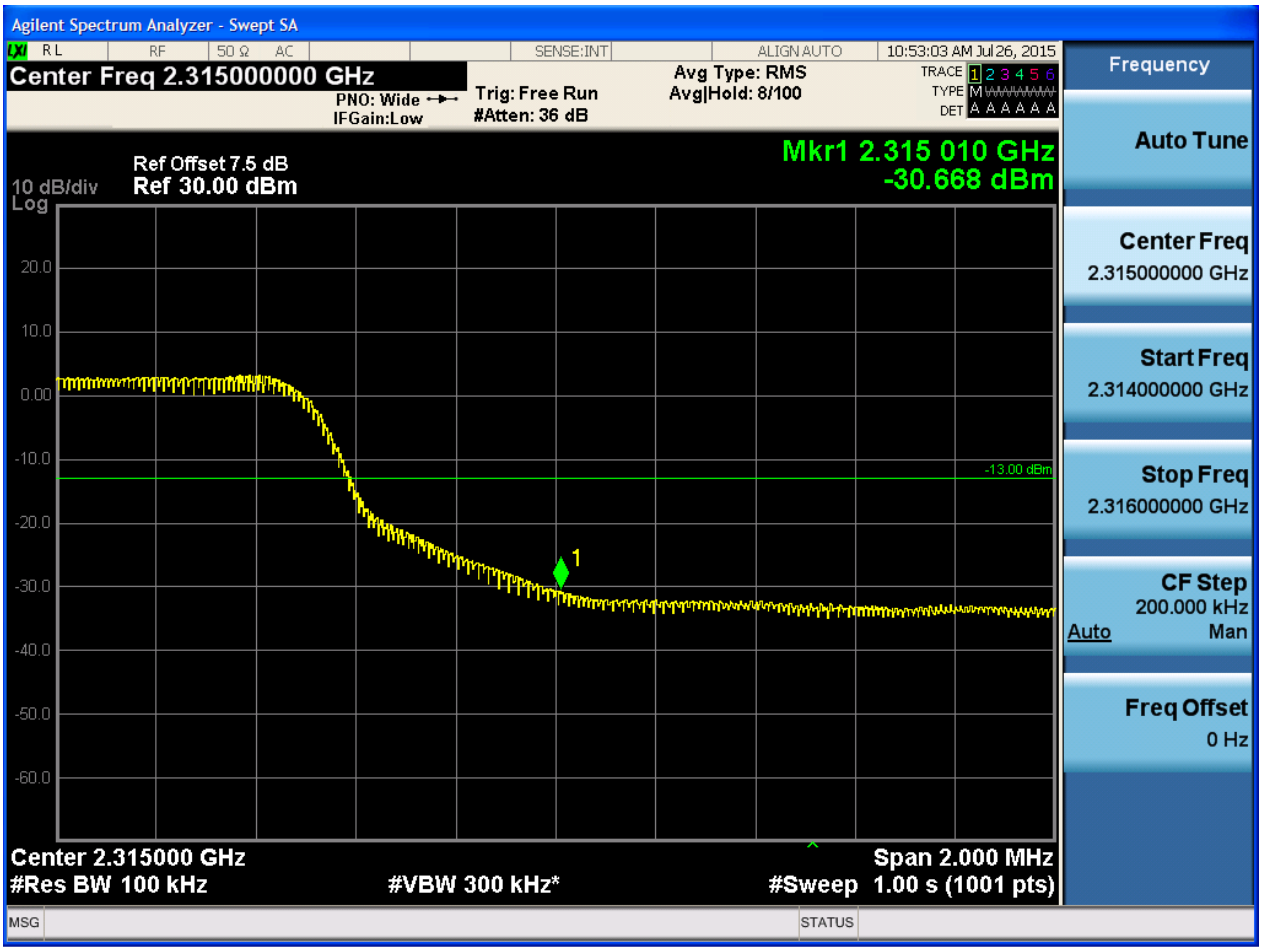
5.1.1.1.2.2.2 Test RB = RB1#49



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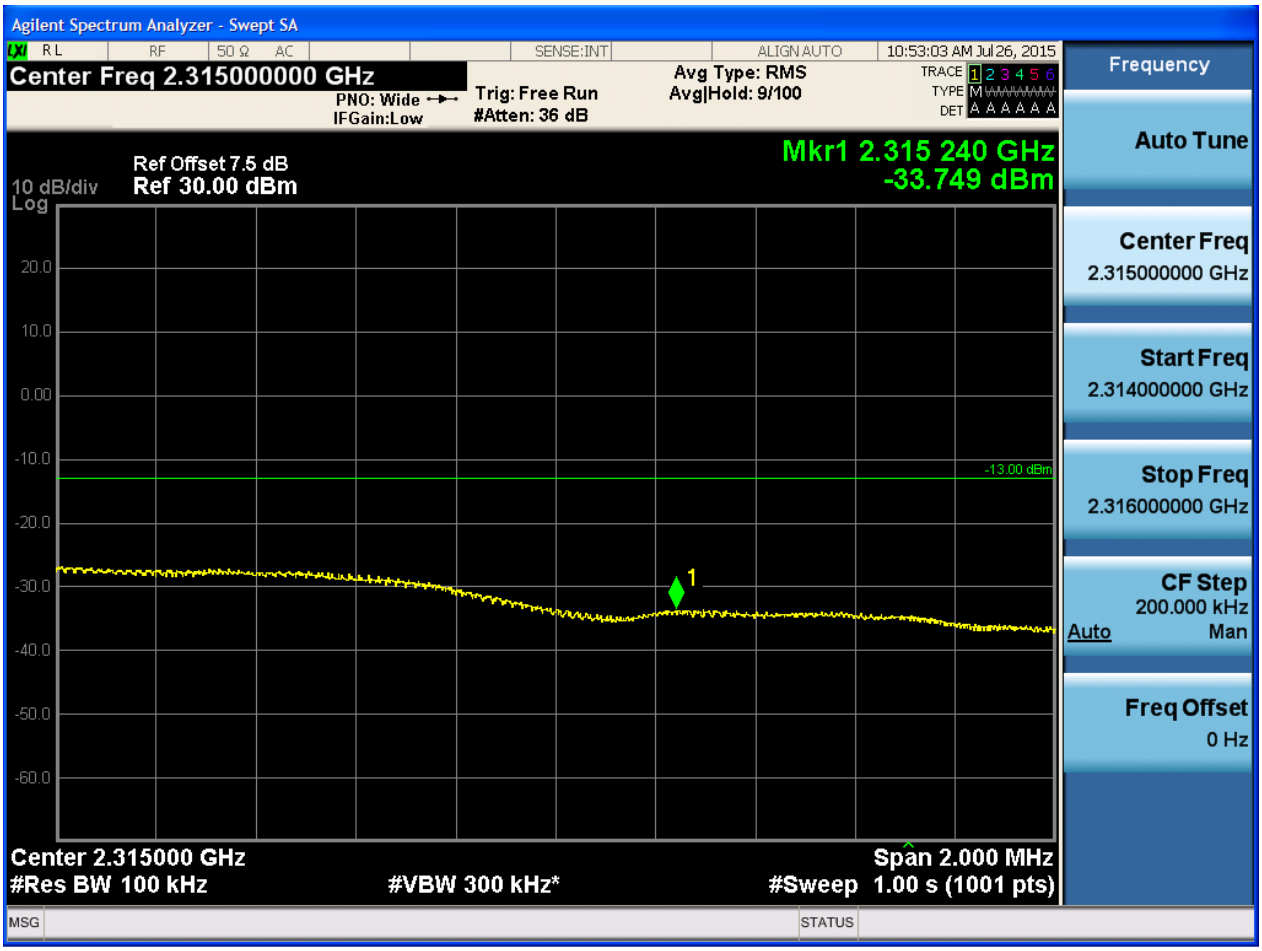
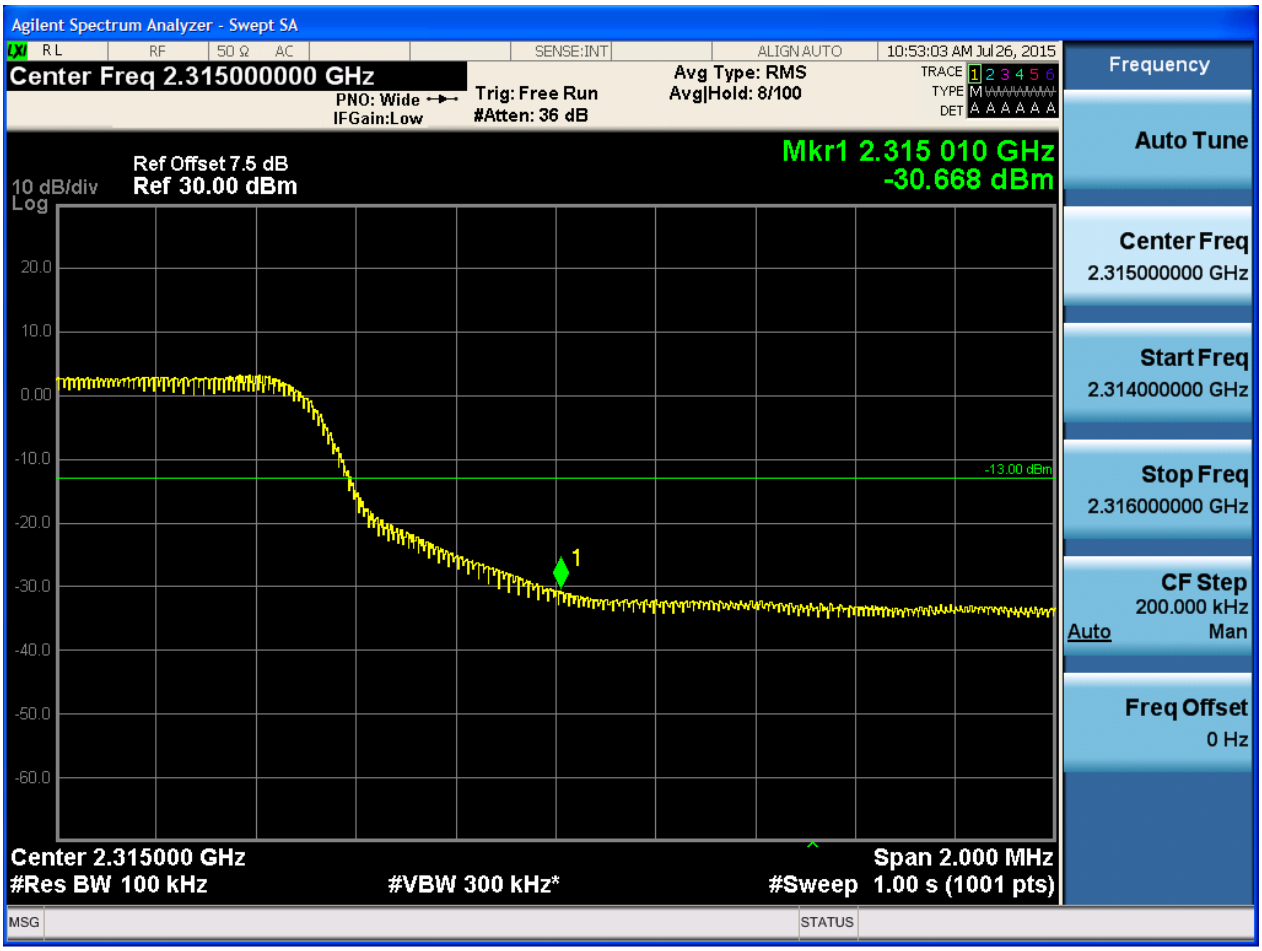
5.1.1.1.2.2.3 Test RB = RB25#13



5.1.1.1.2.2.4 Test RB = RB50#0



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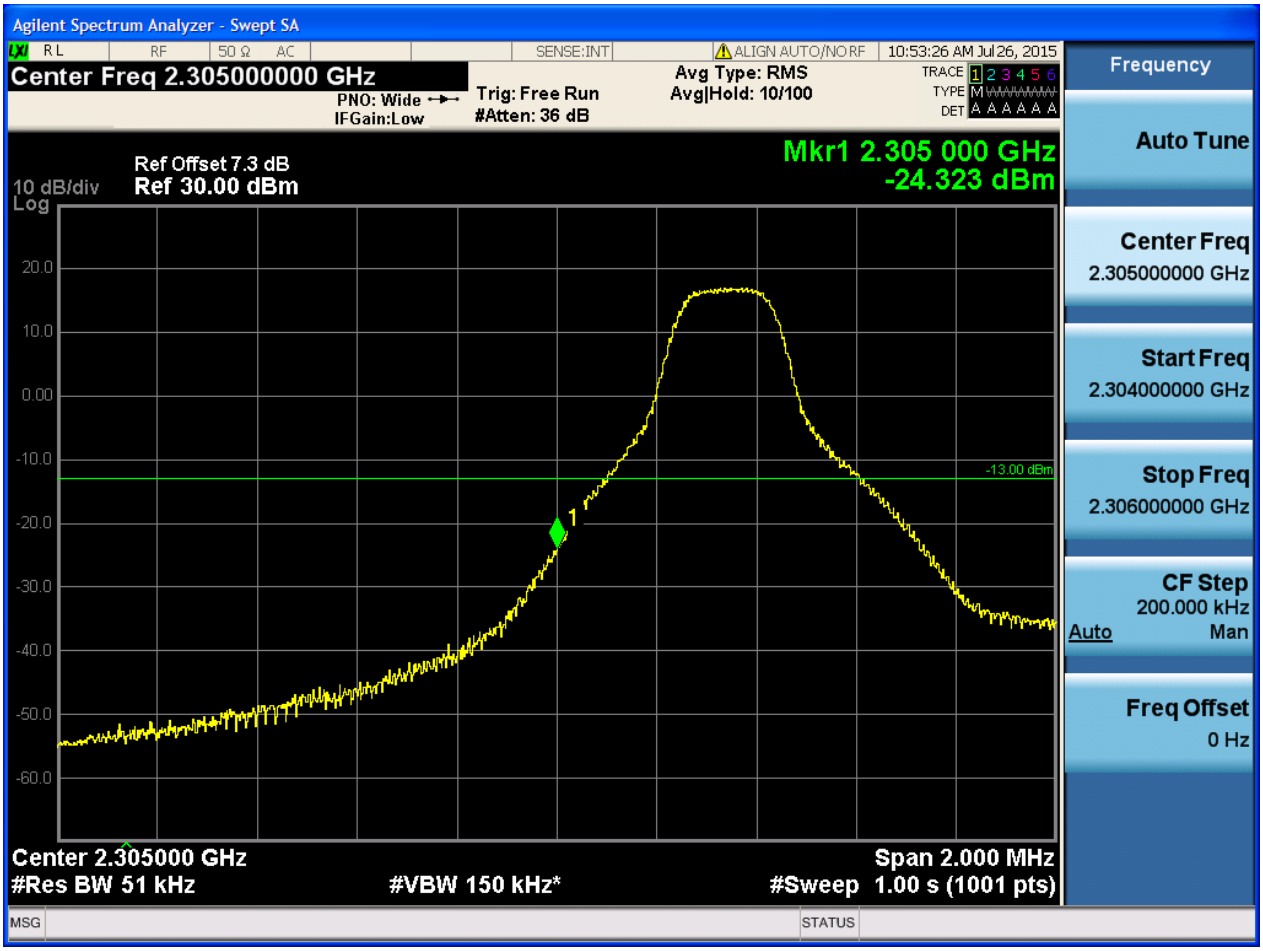
5.1.1.2 Test Mode = LTE/TM2

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



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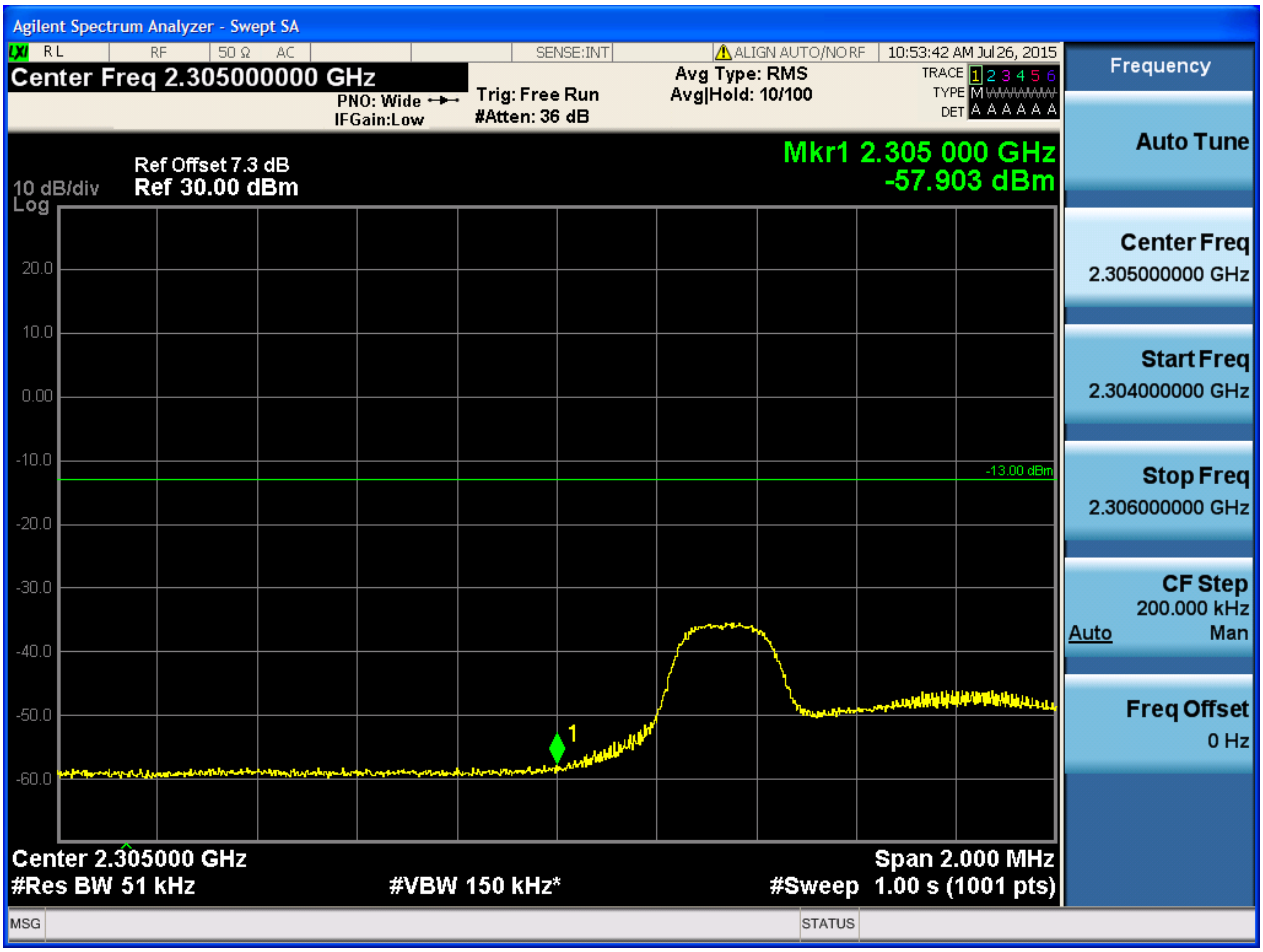
5.1.1.2.1.1.2 Test RB = RB1#24



5.1.1.2.1.1.3 Test RB = RB12#6

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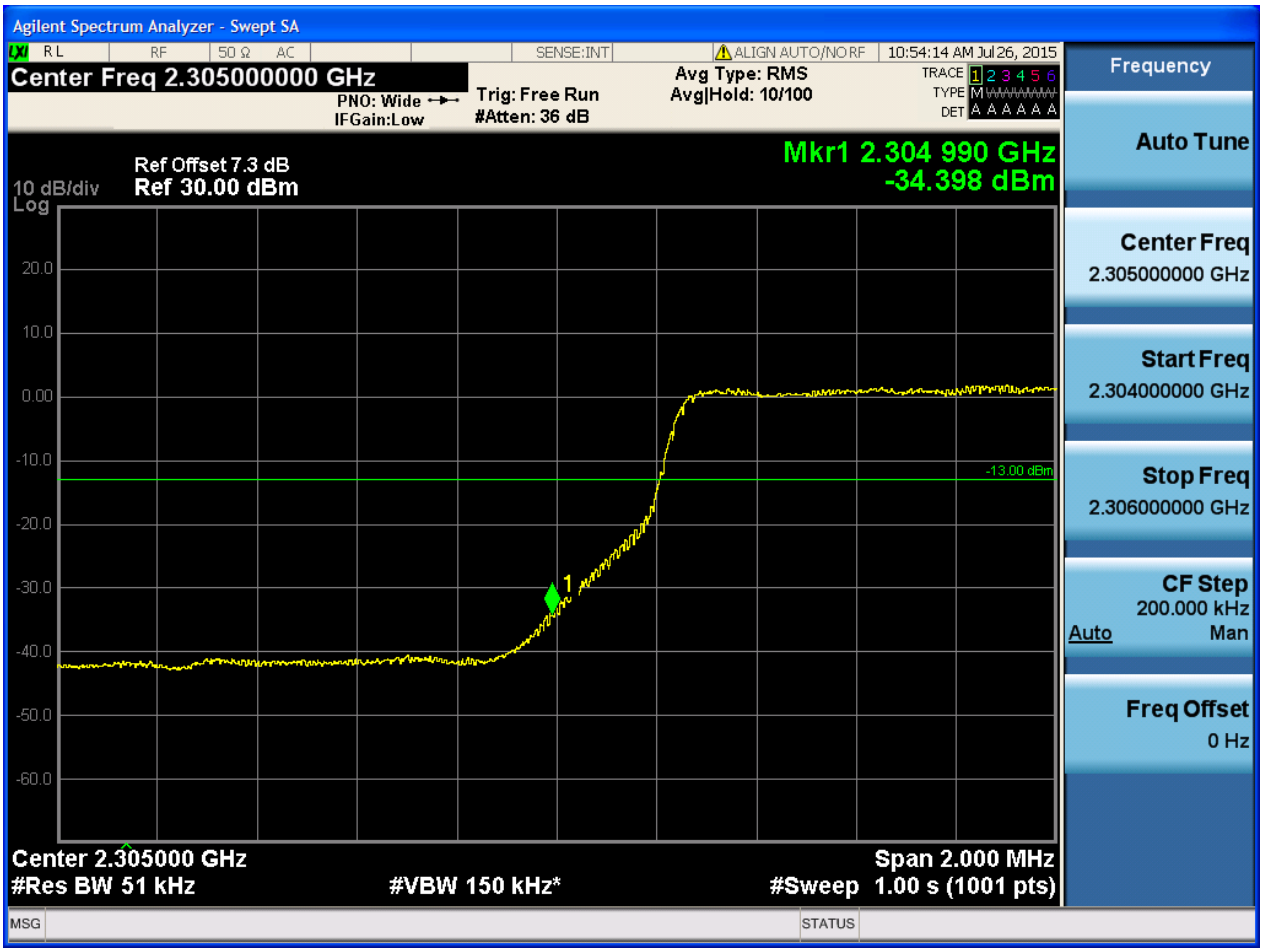
5.1.1.2.1.1.4 Test RB = RB25#0



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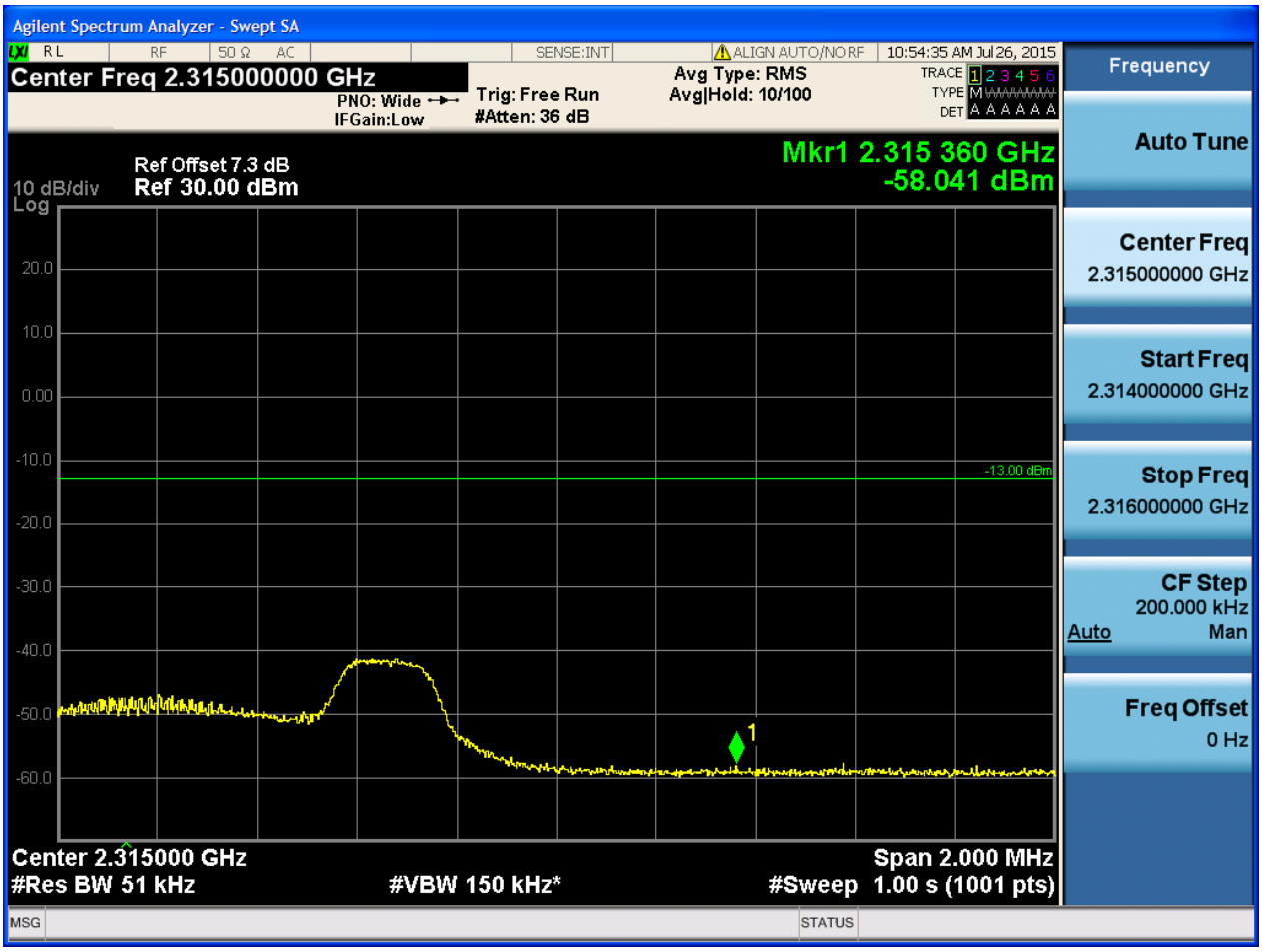
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



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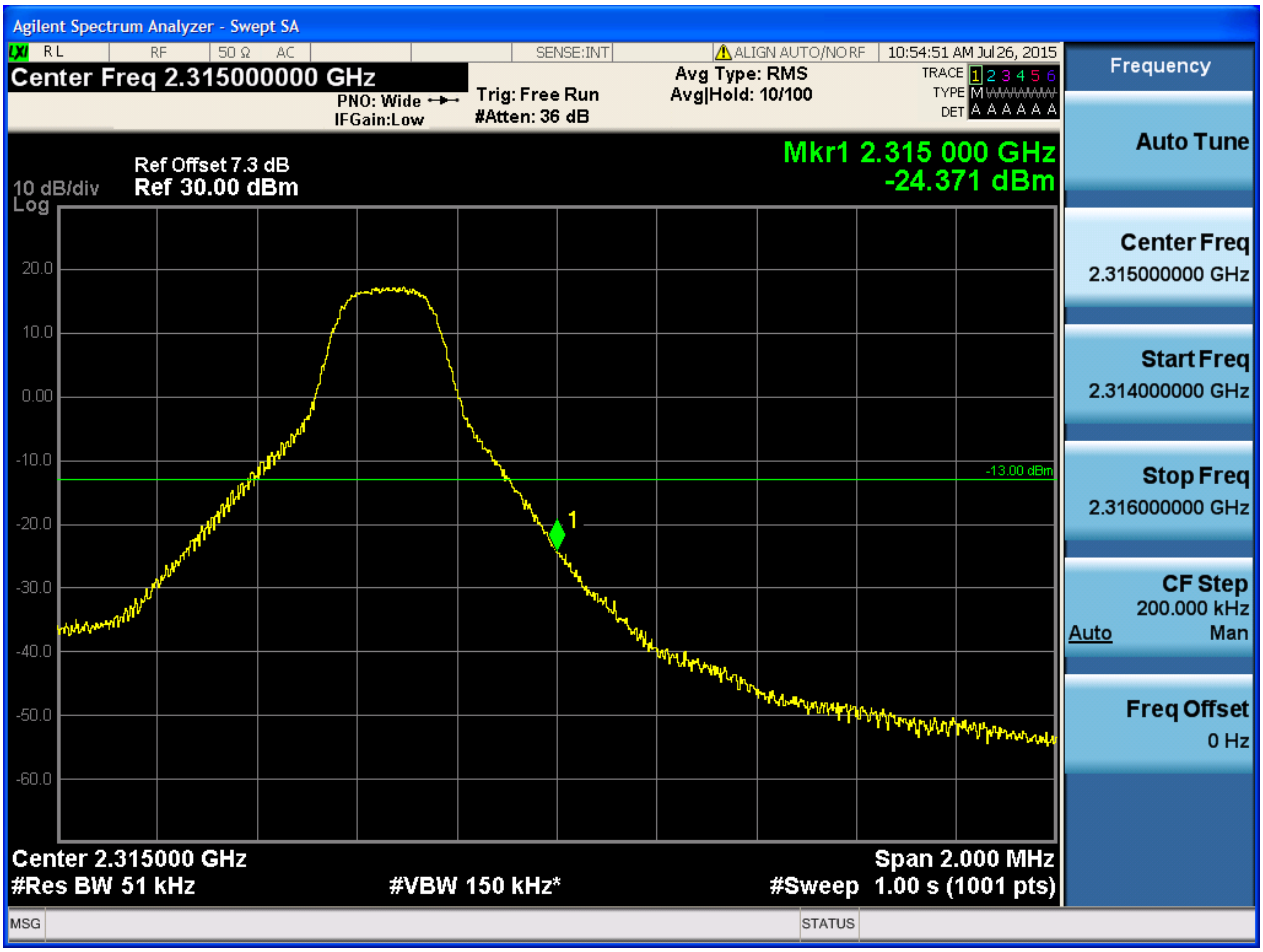
5.1.1.2.1.2.2 Test RB = RB1#24



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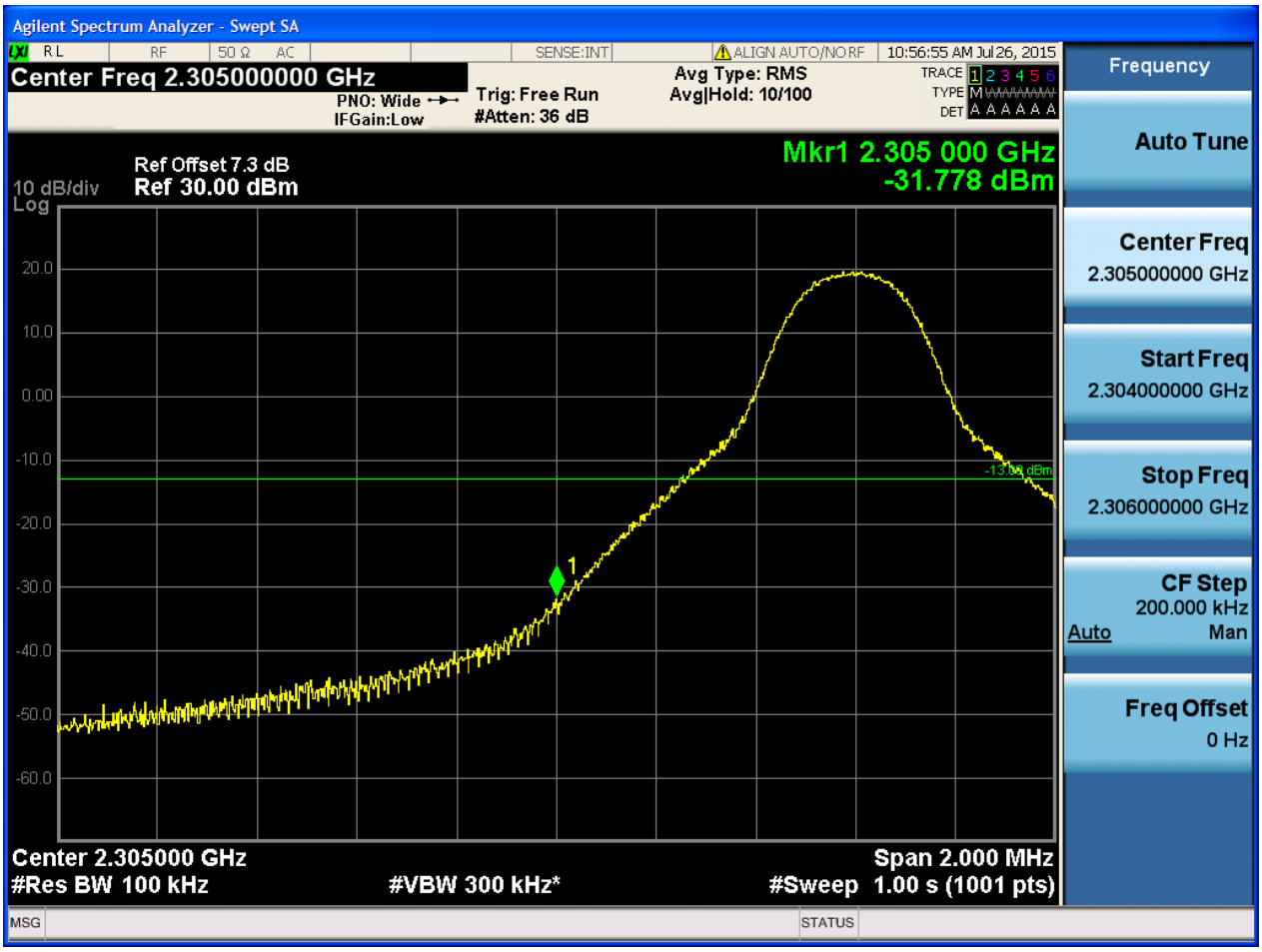
5.1.1.2.1.2.3 Test RB = RB12#6

5.1.1.2.1.2.4 Test RB = RB25#0

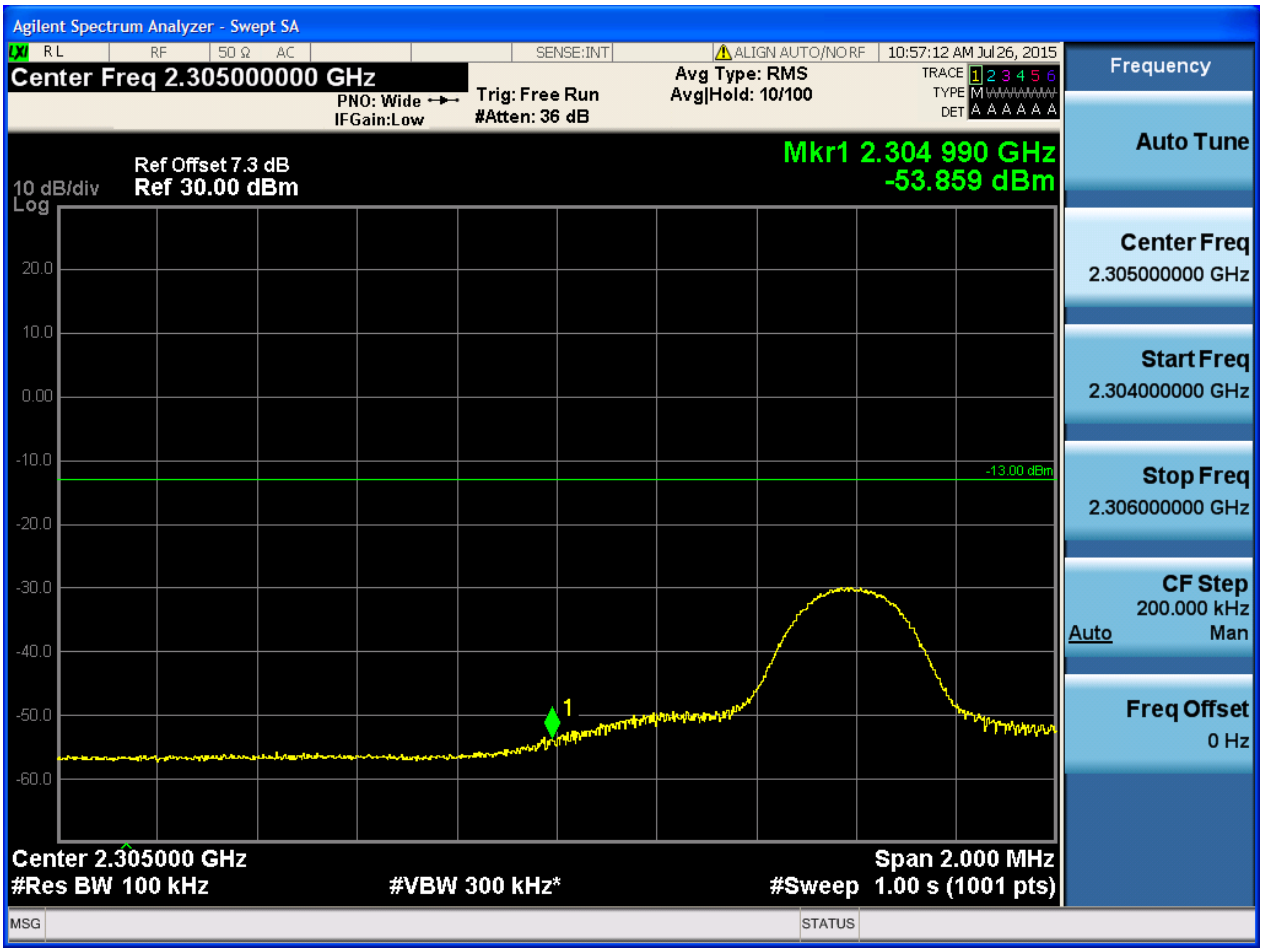
5.1.1.2.2 Test Bandwidth = 10

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



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5.1.1.2.2.1.3 Test RB = RB25#13

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5.1.1.2.2.1.4 Test RB = RB50#0

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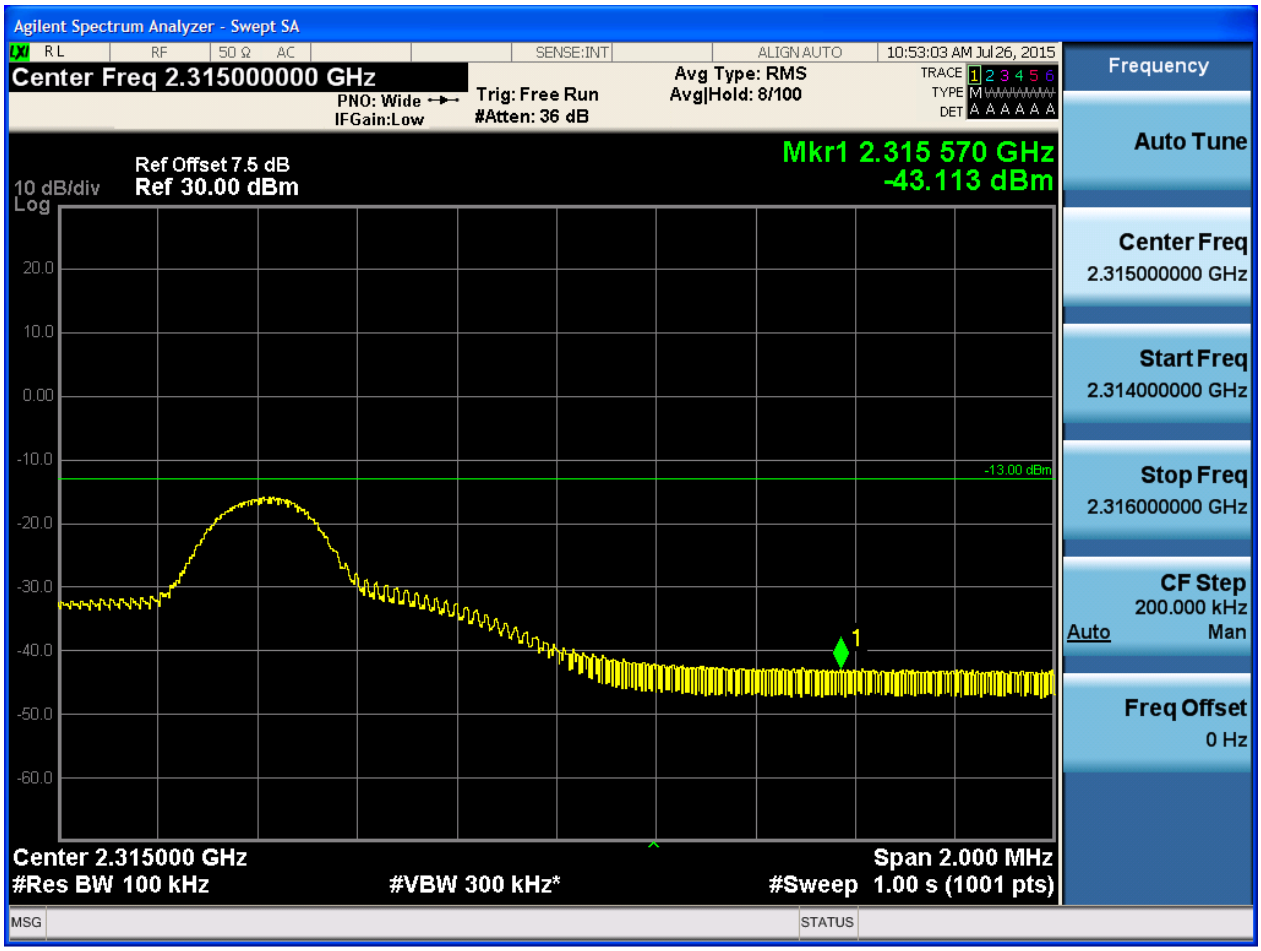
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



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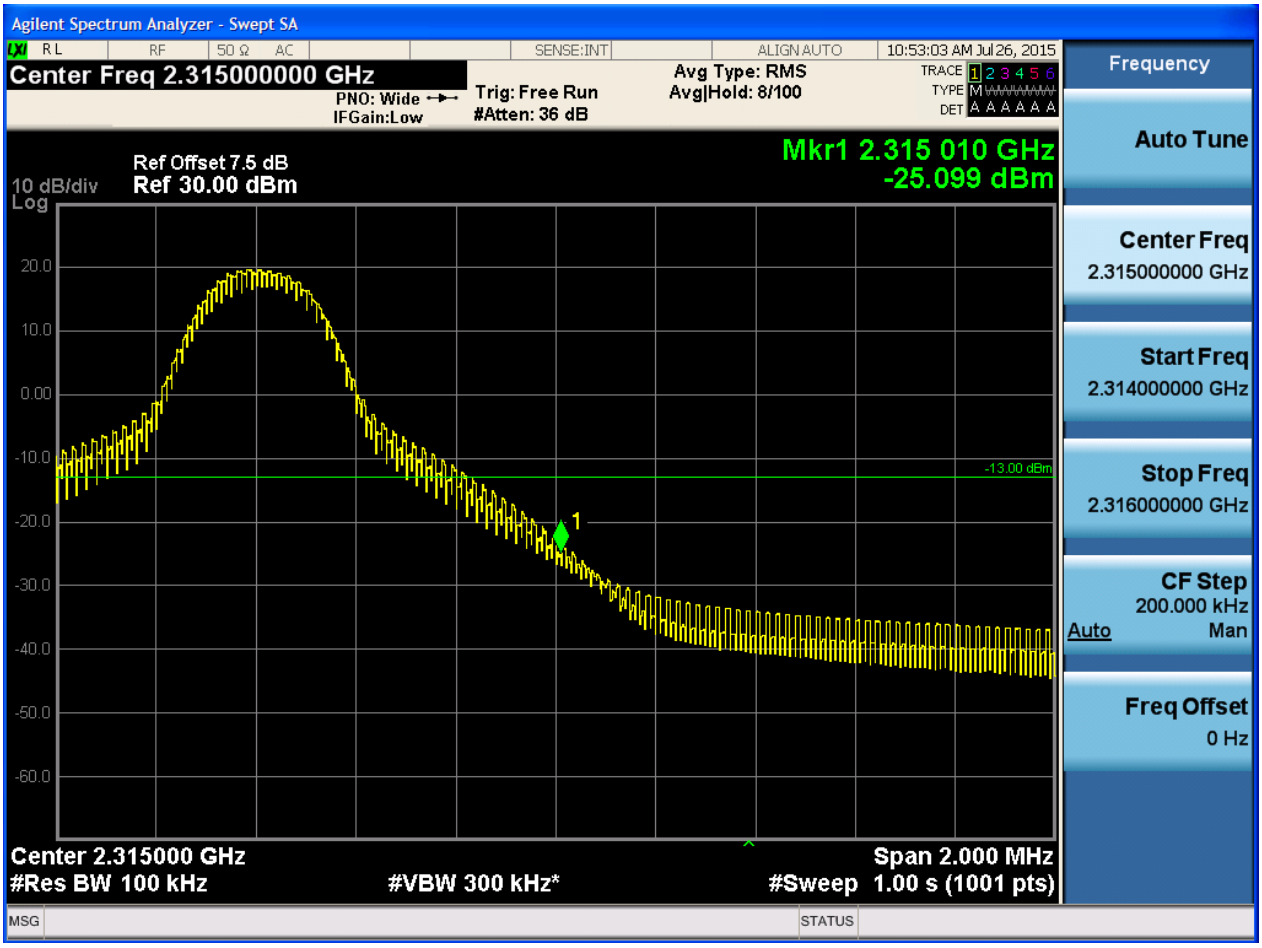
5.1.1.2.2.2.2 Test RB = RB1#49



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5.1.1.2.2.2.3 Test RB = RB25#13

5.1.1.2.2.2.4 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

6.3 For LTE

6.3.1 Test Band = BAND30

6.3.1.1 Test Mode = LTE/TM1

6.3.1.1.1 Test Bandwidth = 5

6.3.1.1.1.1 Test Channel = LCH

6.3.1.1.1.1.1 Test RB = RB1#0

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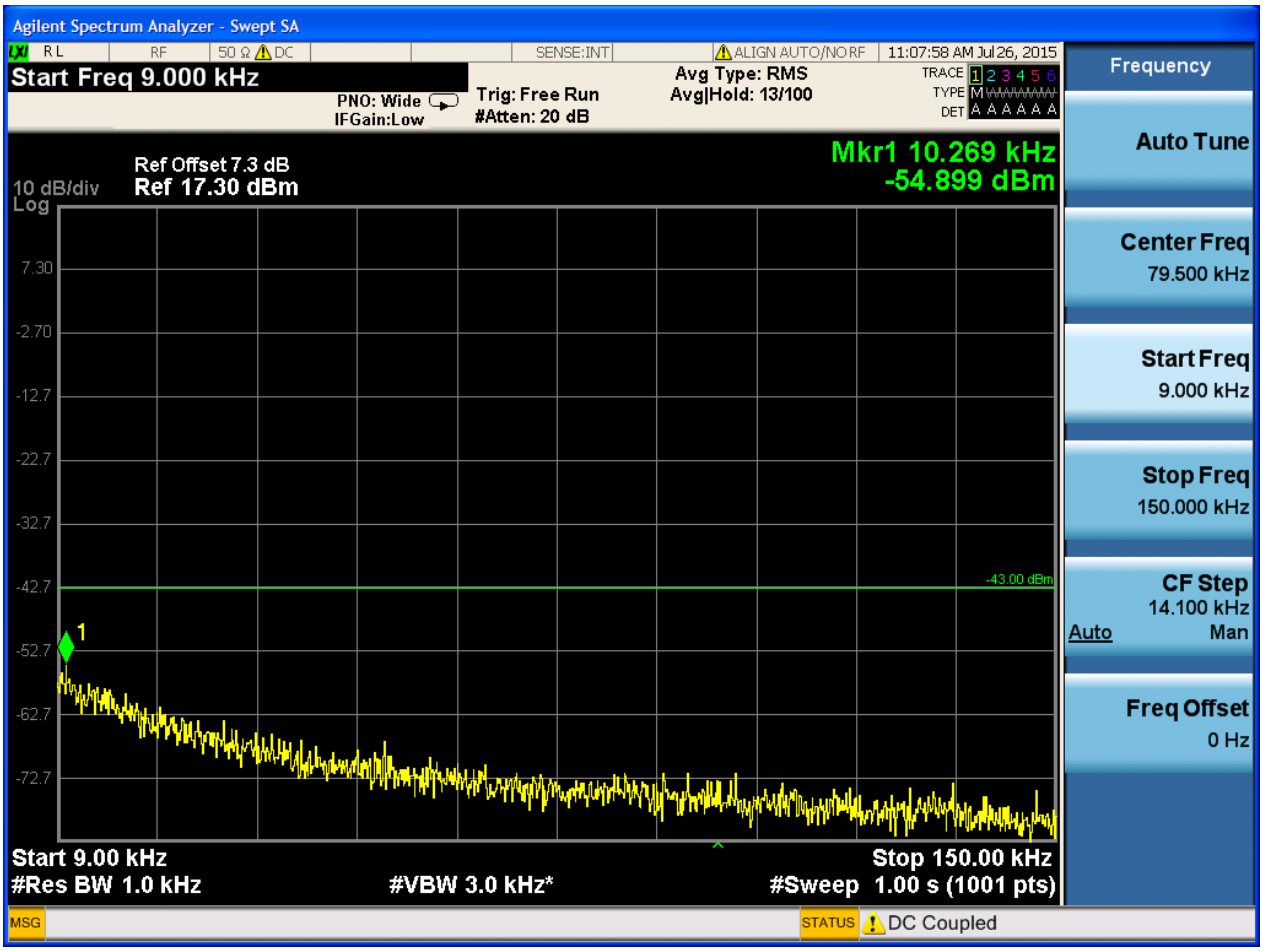

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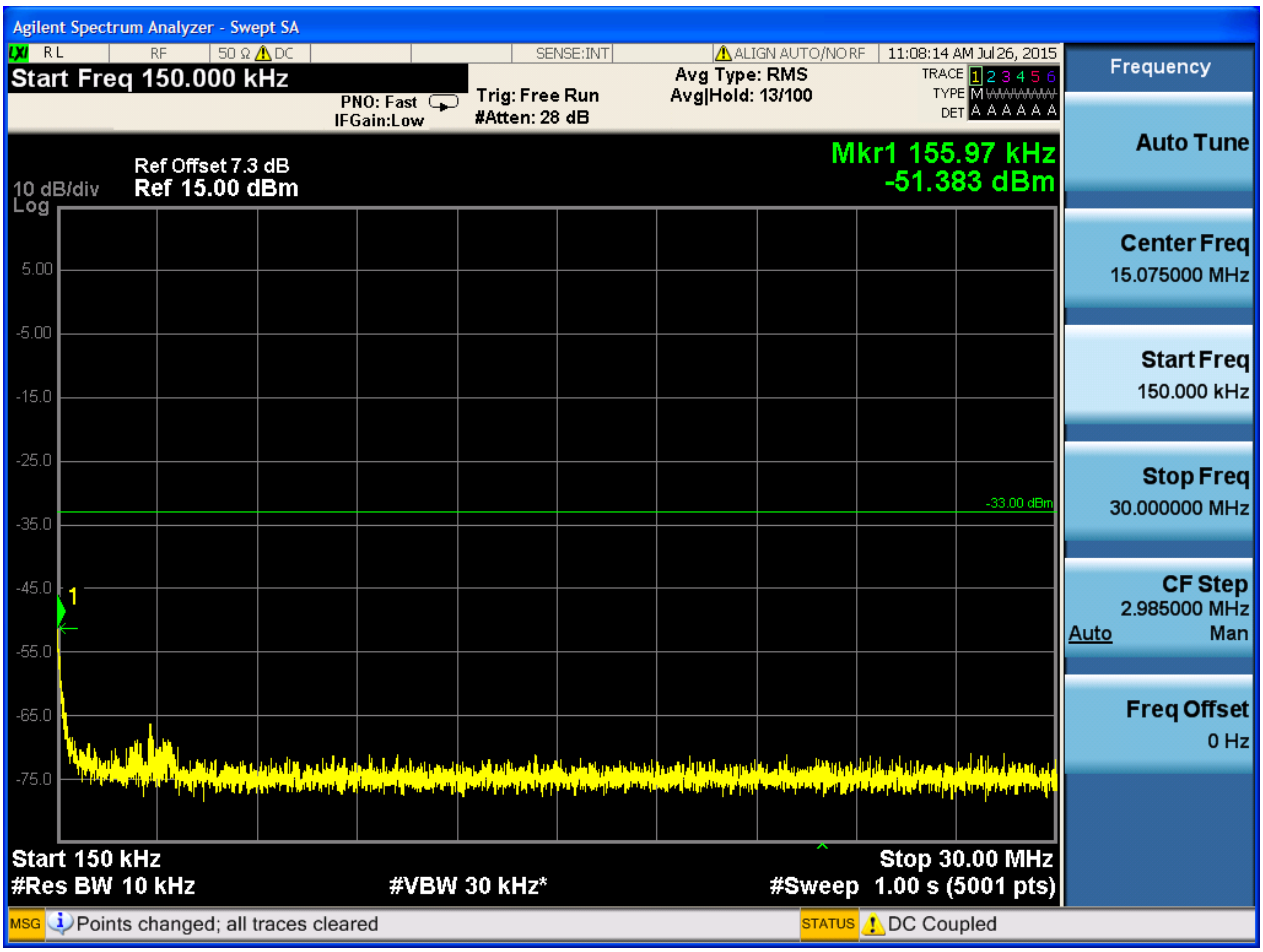

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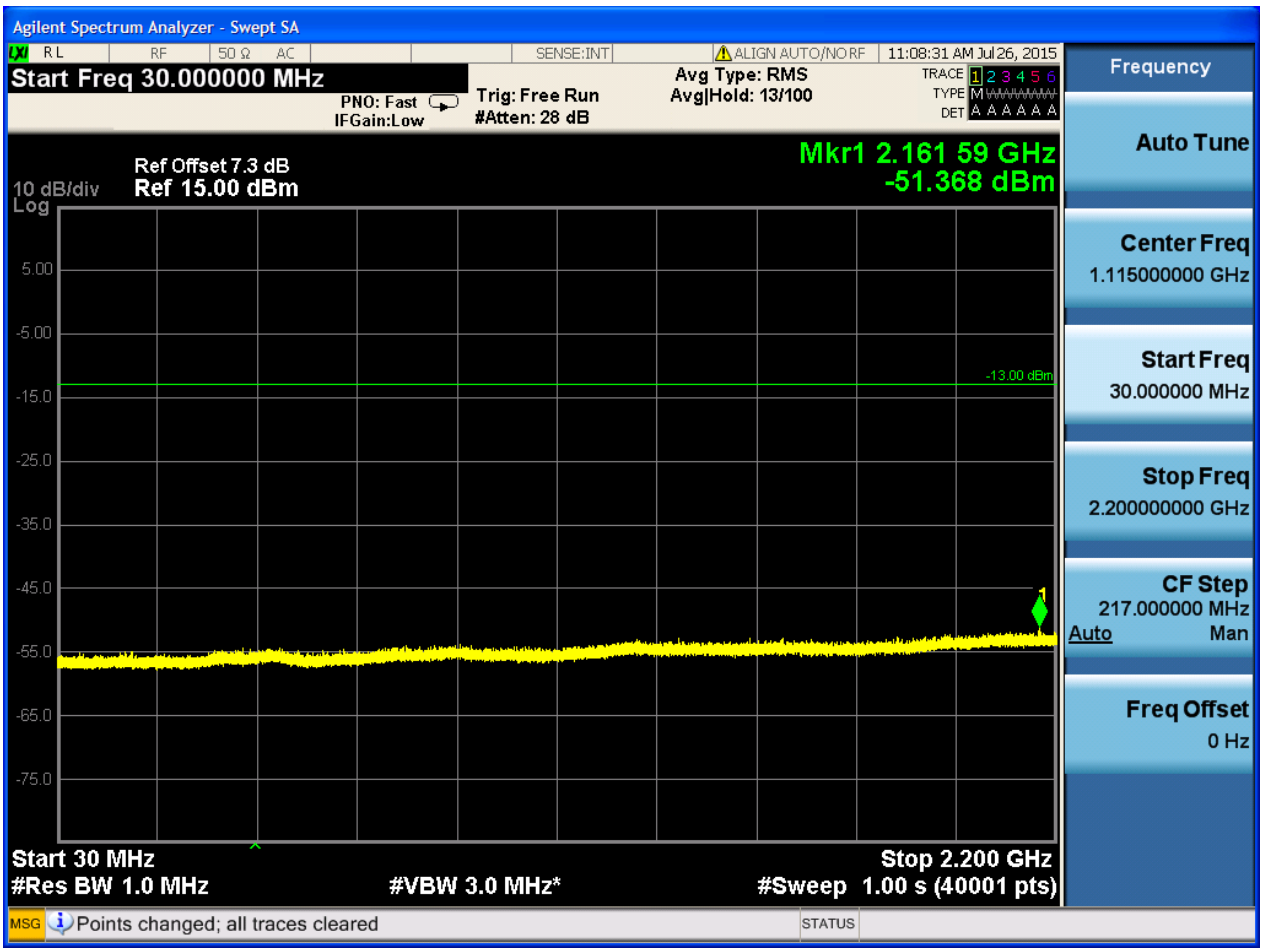

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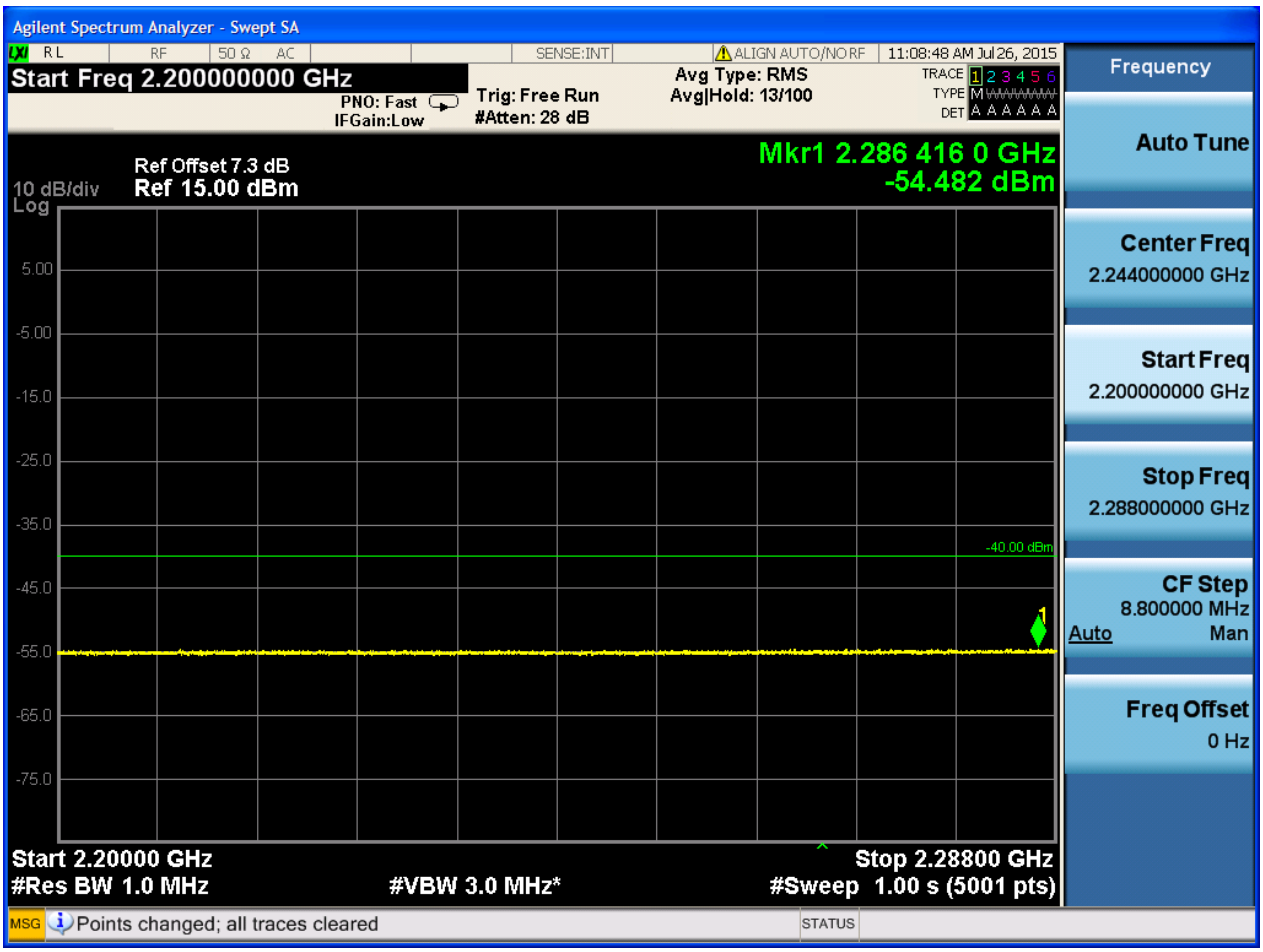

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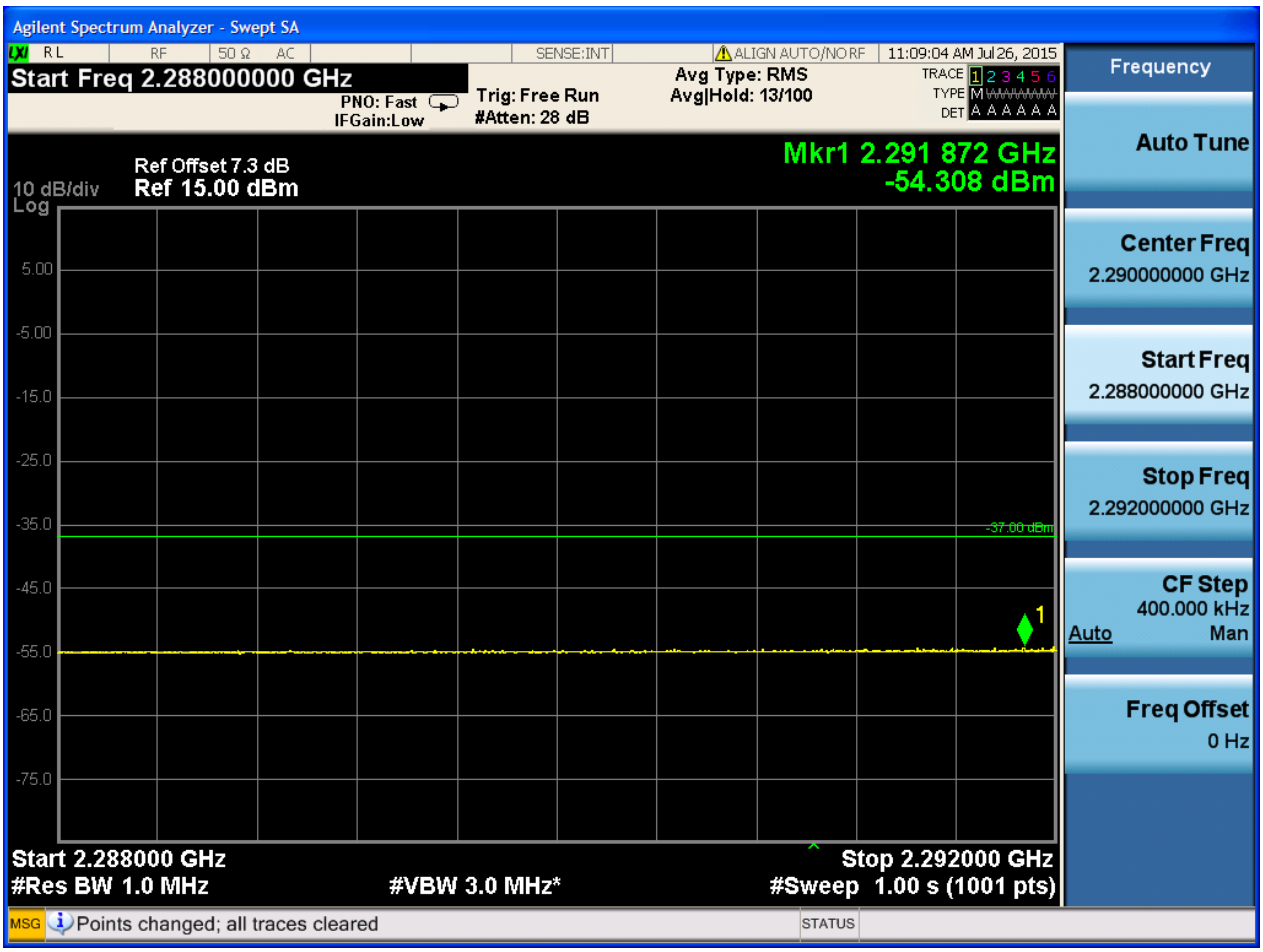

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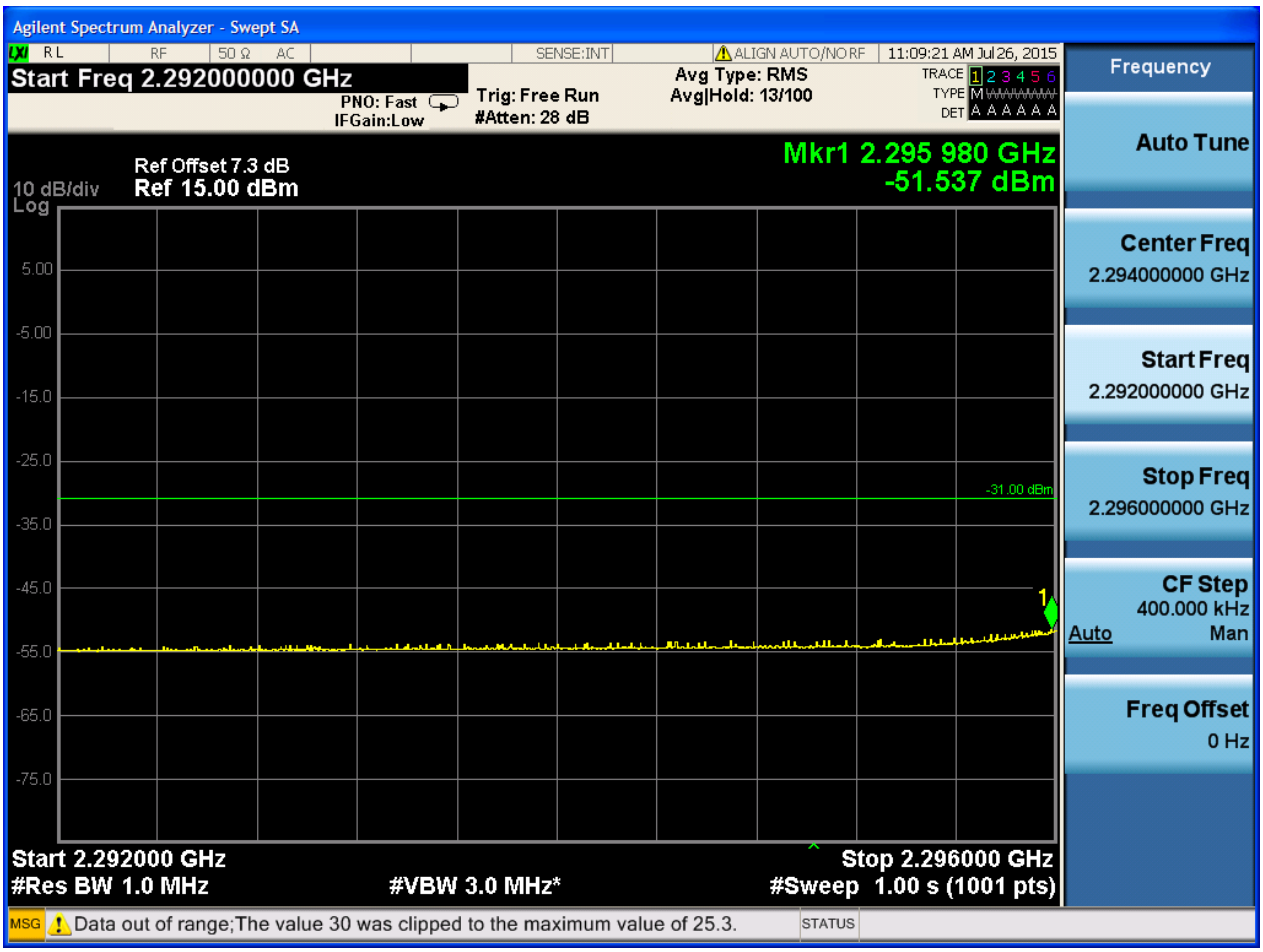

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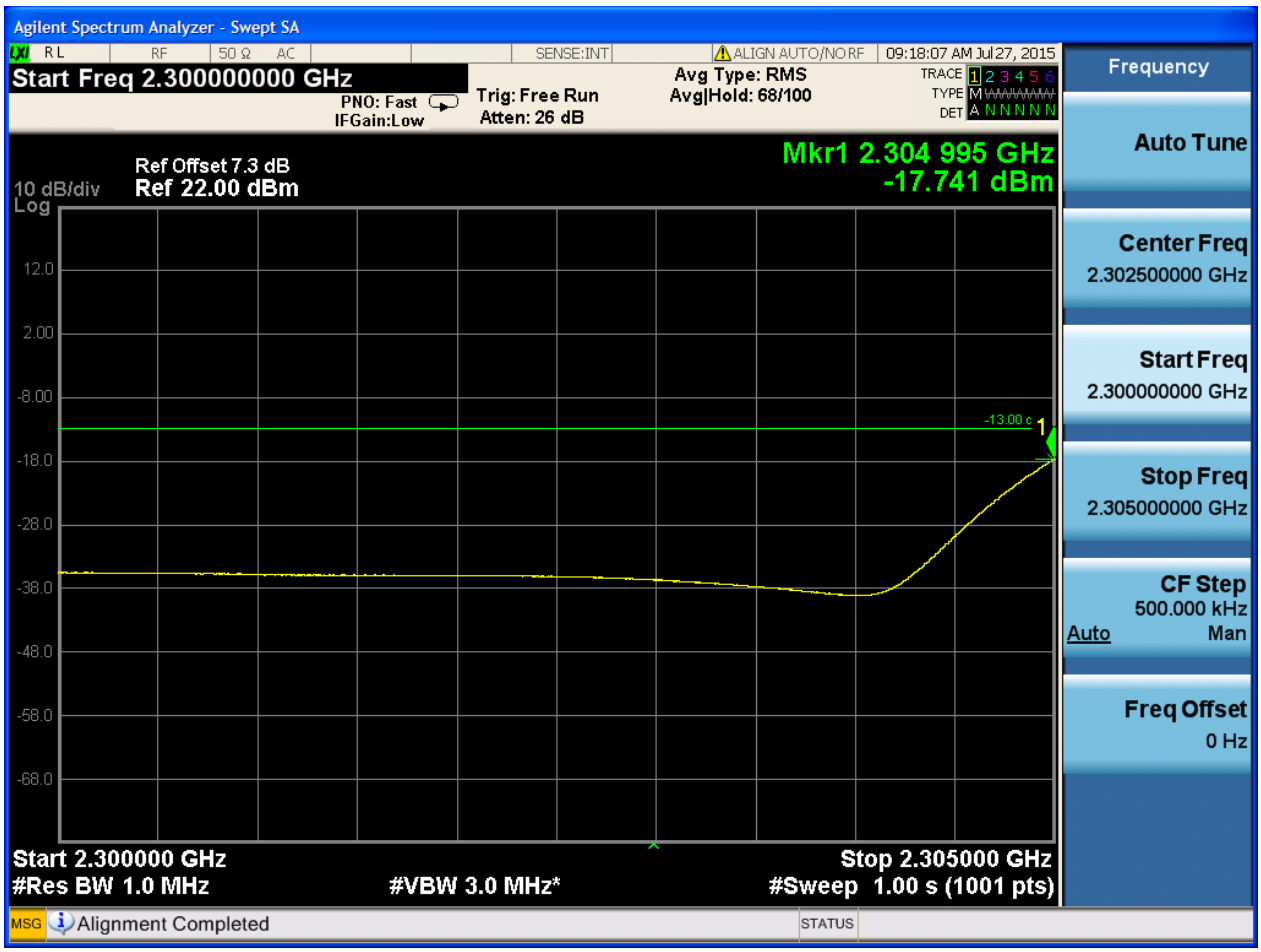

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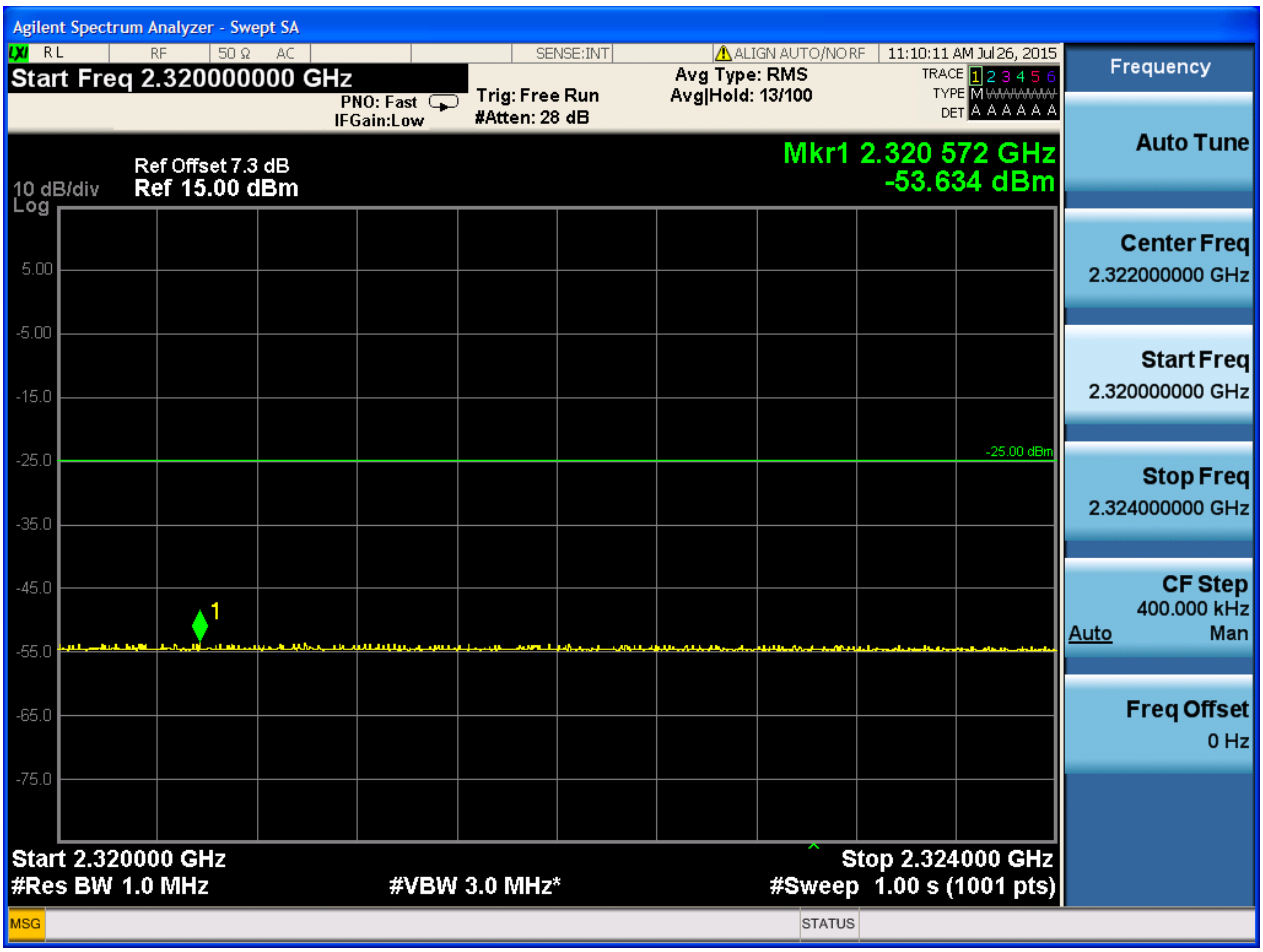

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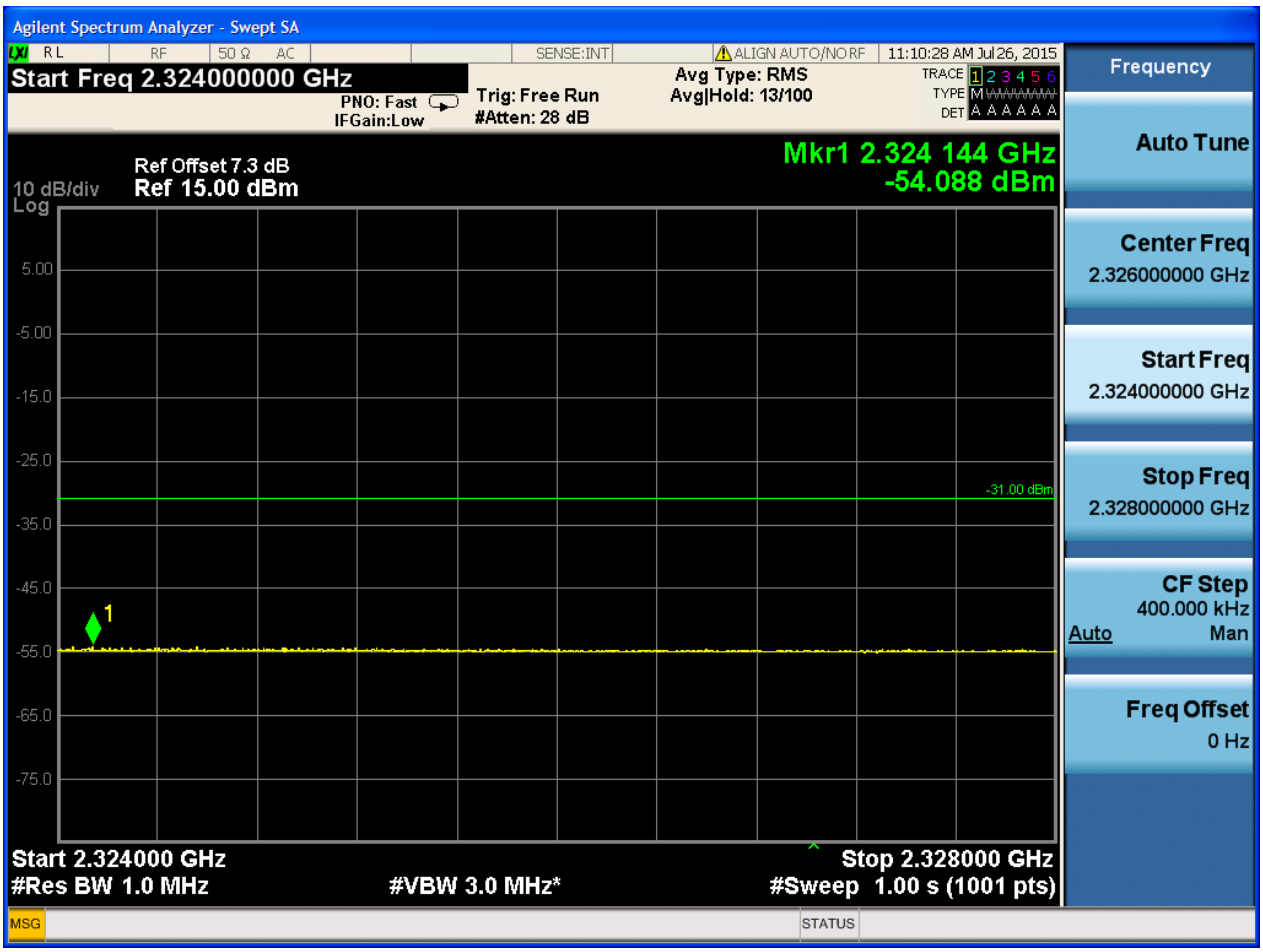
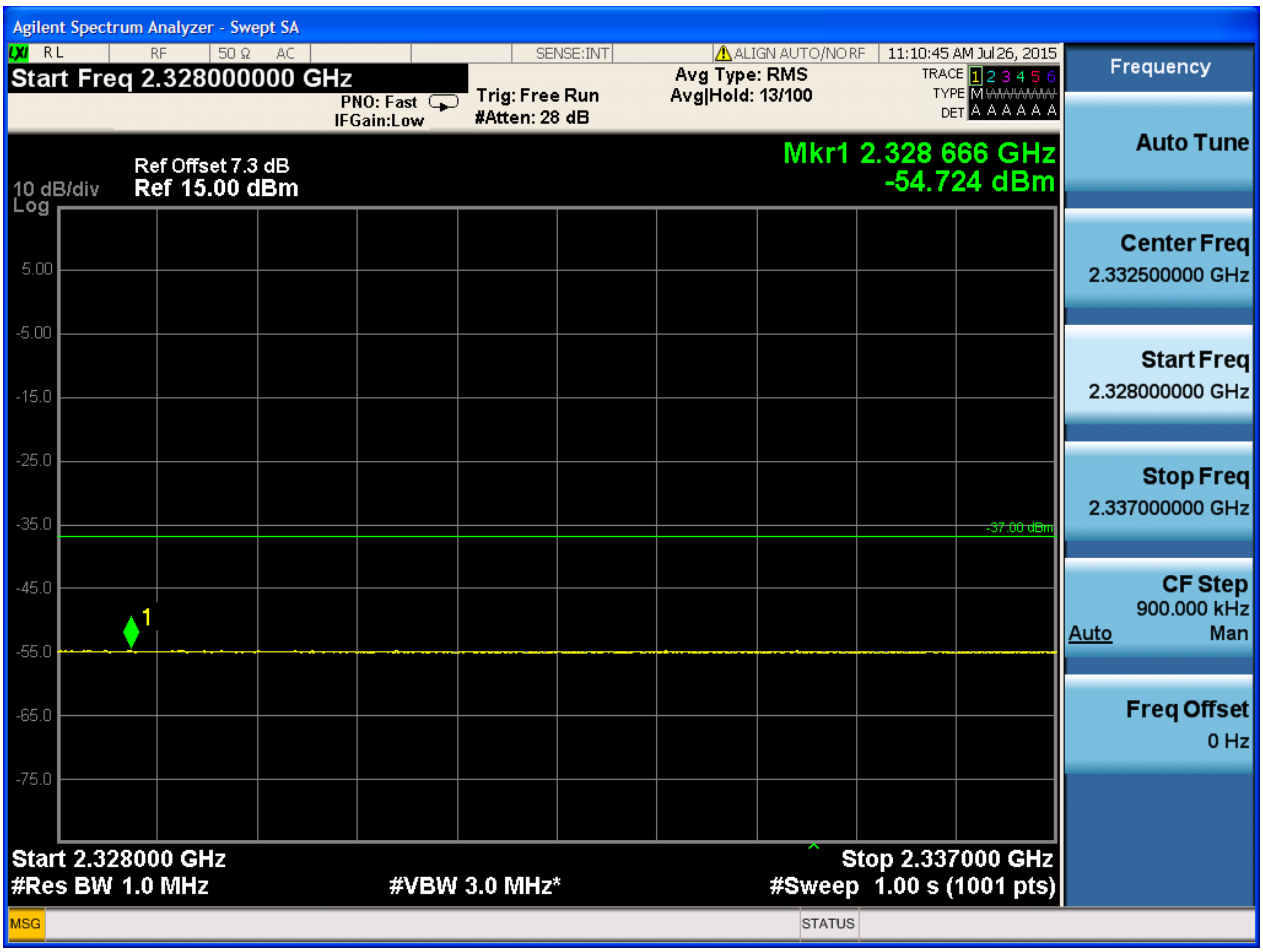

Agilent Spectrum Analyzer - Swept SA
Start Freq 2.324000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: RMS
Avg|Hold: 13/100
11:10:28 AM Jul 26, 2015
Ref Offset 7.3 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.324 144 GHz
-54.088 dBm
-31.00 dBm
Start 2.324000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 2.328000 GHz
#Sweep 1.00 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.326000000 GHz
Start Freq
2.324000000 GHz
Stop Freq
2.328000000 GHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz



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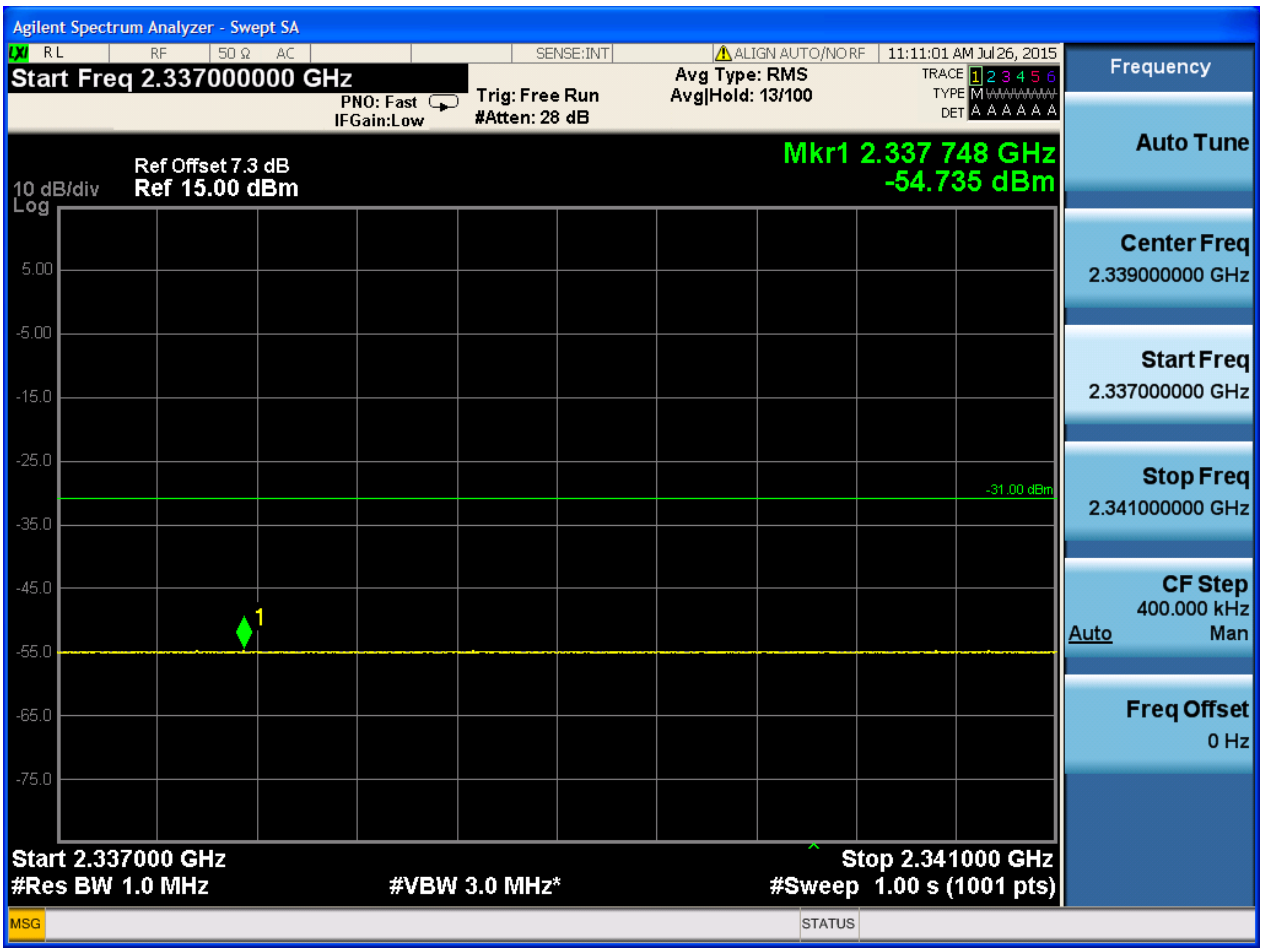

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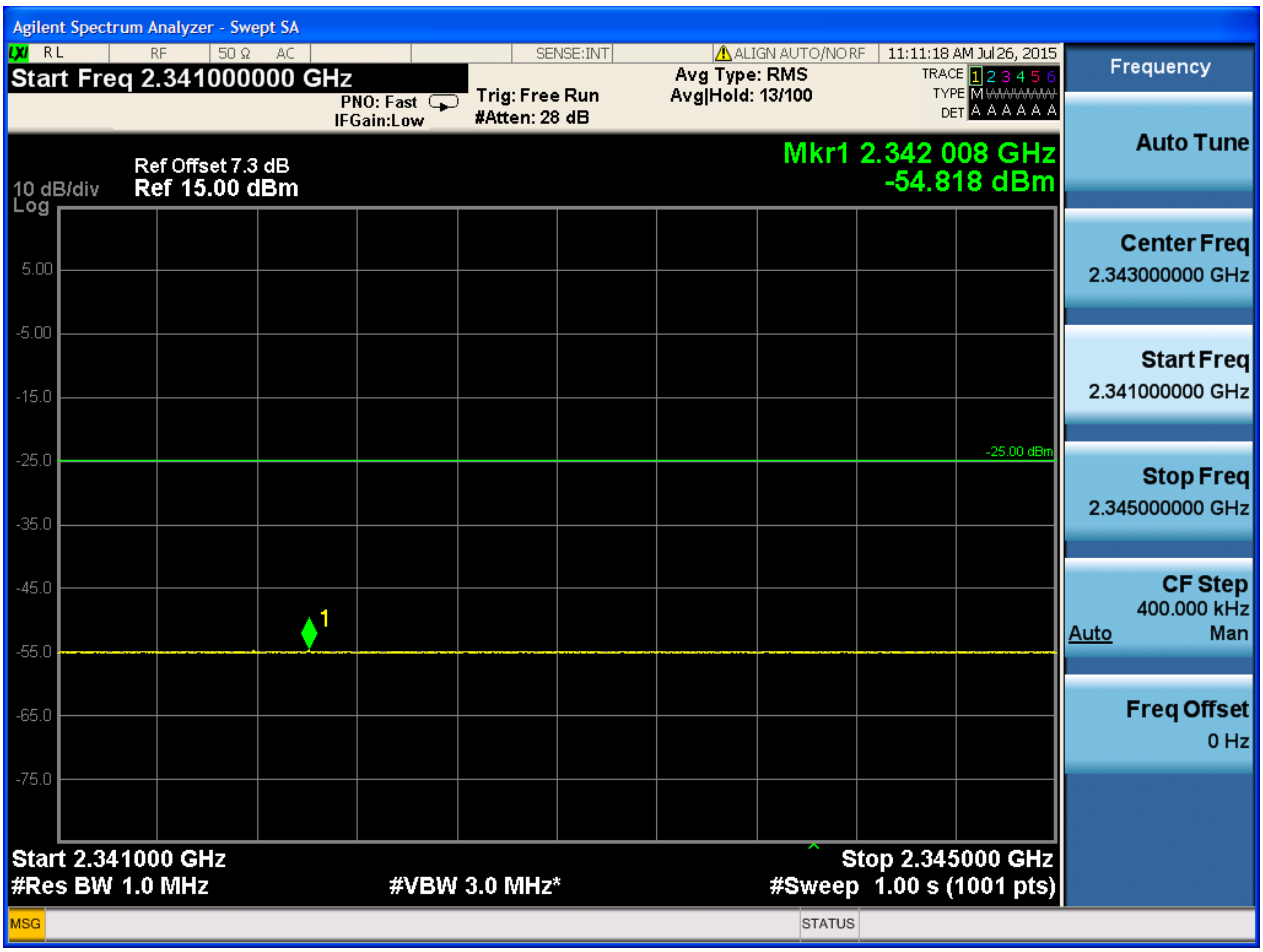
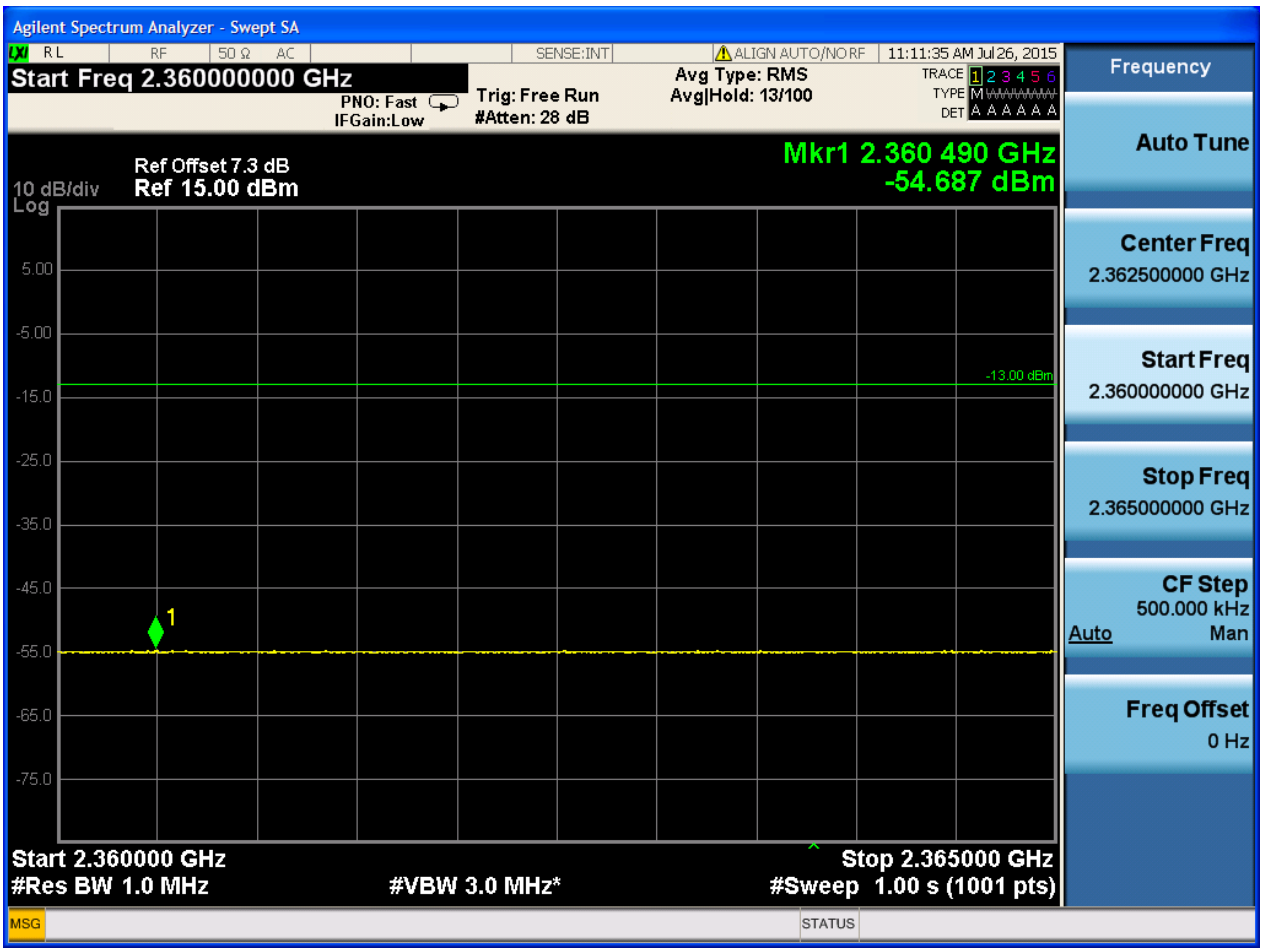
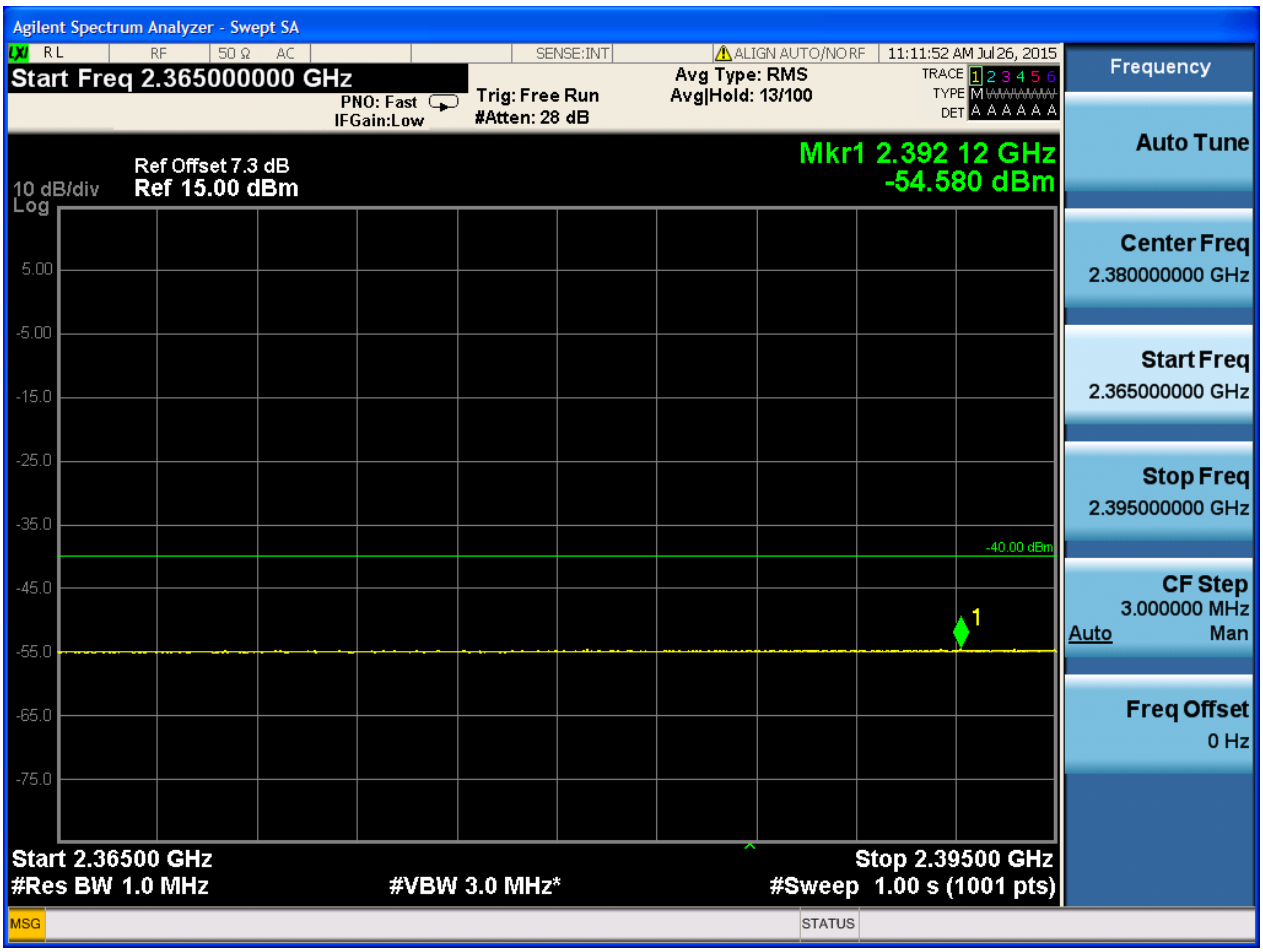

Agilent Spectrum Analyzer - Swept SA
Start Freq 2.341000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: RMS
Avg|Hold: 13/100
11:11:18 AM Jul 26, 2015
Ref Offset 7.3 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.342 008 GHz
-54.818 dBm
-25.00 dBm
Start 2.341000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 2.345000 GHz
#Sweep 1.00 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.343000000 GHz
Start Freq
2.341000000 GHz
Stop Freq
2.345000000 GHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Start Freq 2.360000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: RMS
Avg|Hold: 13/100
11:11:35 AM Jul 26, 2015
Ref Offset 7.3 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.360 490 GHz
-54.687 dBm
-13.00 dBm
Start 2.360000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 2.365000 GHz
#Sweep 1.00 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.362500000 GHz
Start Freq
2.360000000 GHz
Stop Freq
2.365000000 GHz
CF Step
500.000 kHz
Auto
Man
Freq Offset
0 Hz



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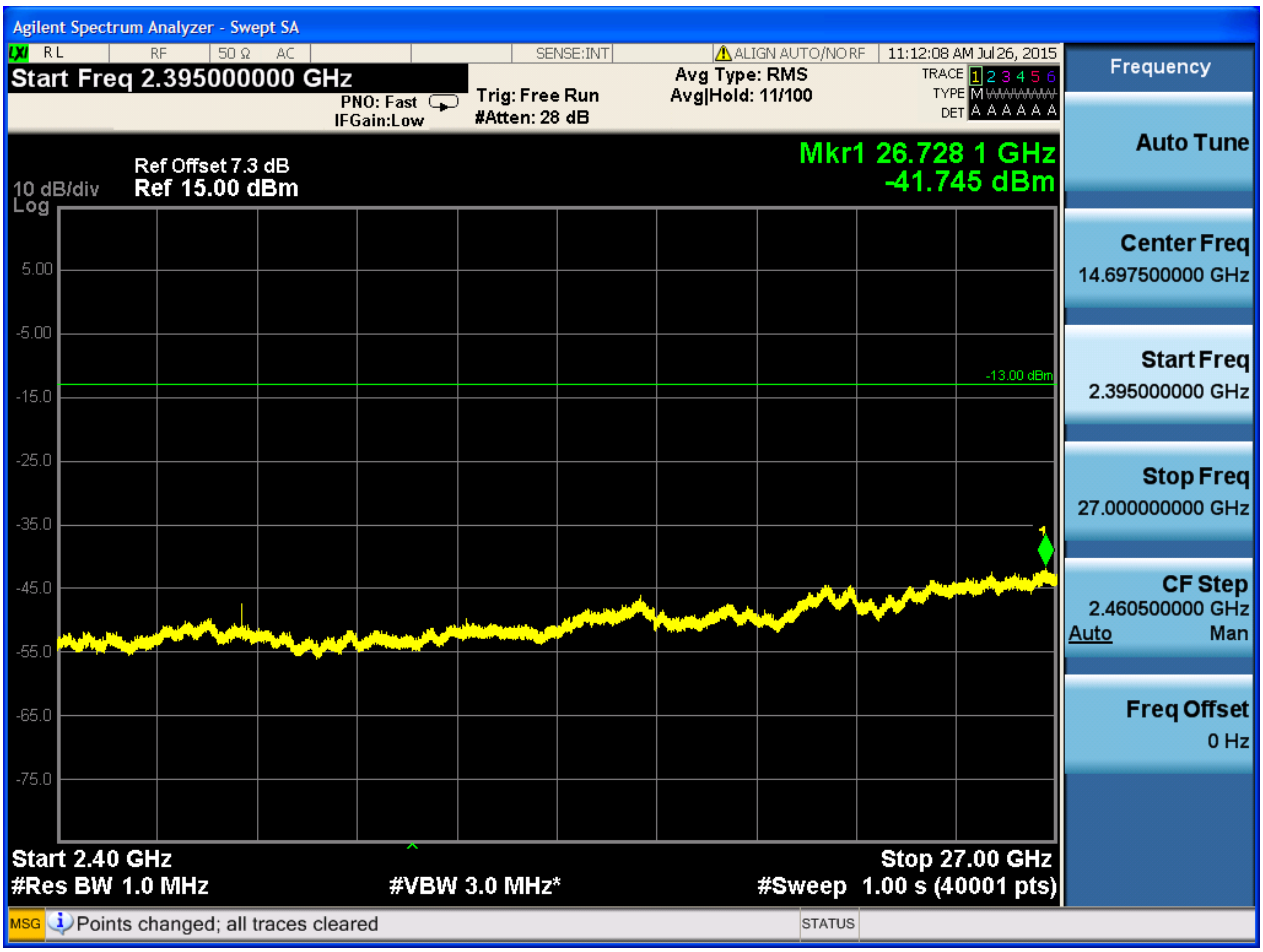

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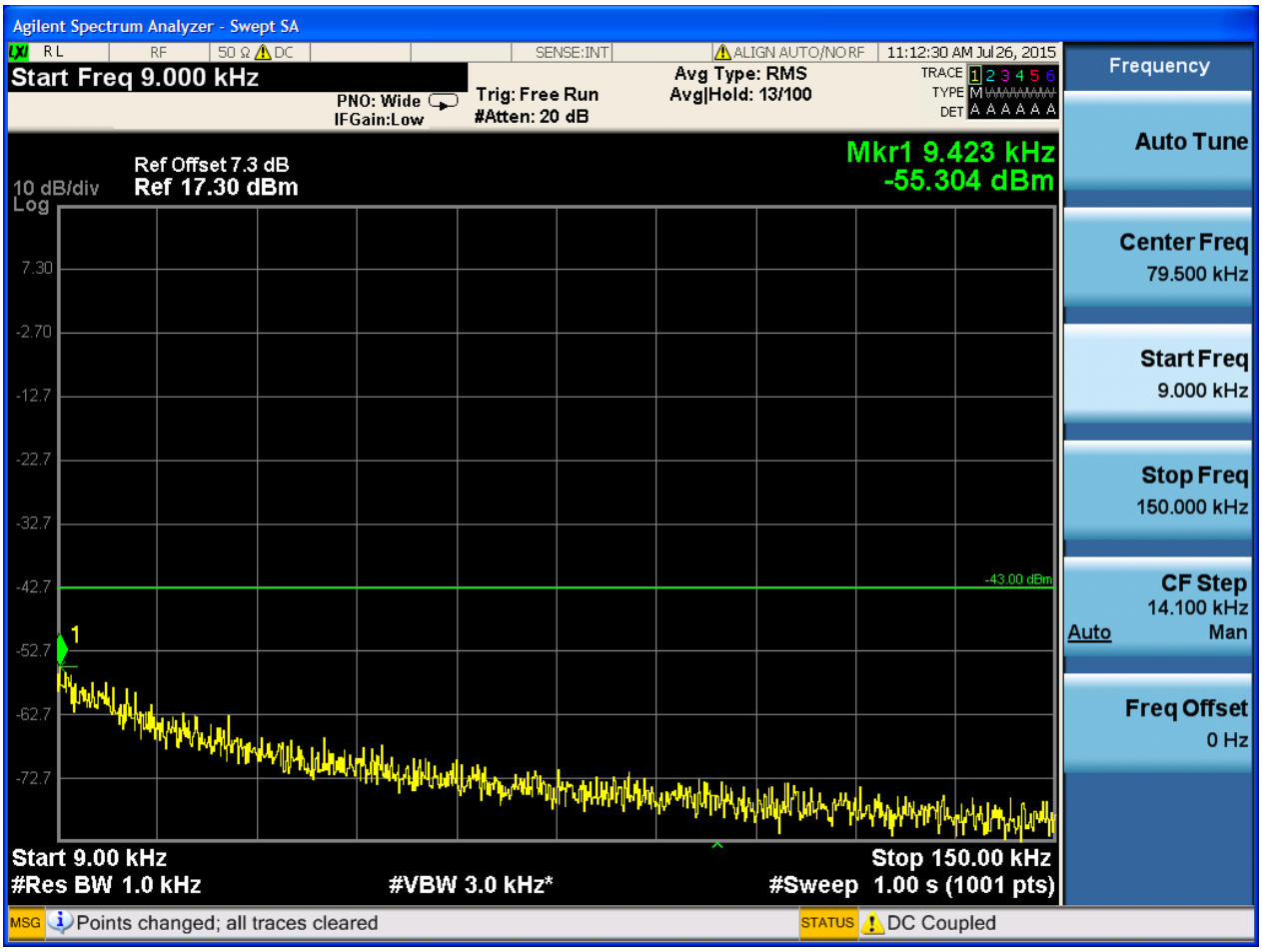
6.3.1.1.1.2 Test Channel = MCH

6.3.1.1.1.2.1 Test RB = RB1#0



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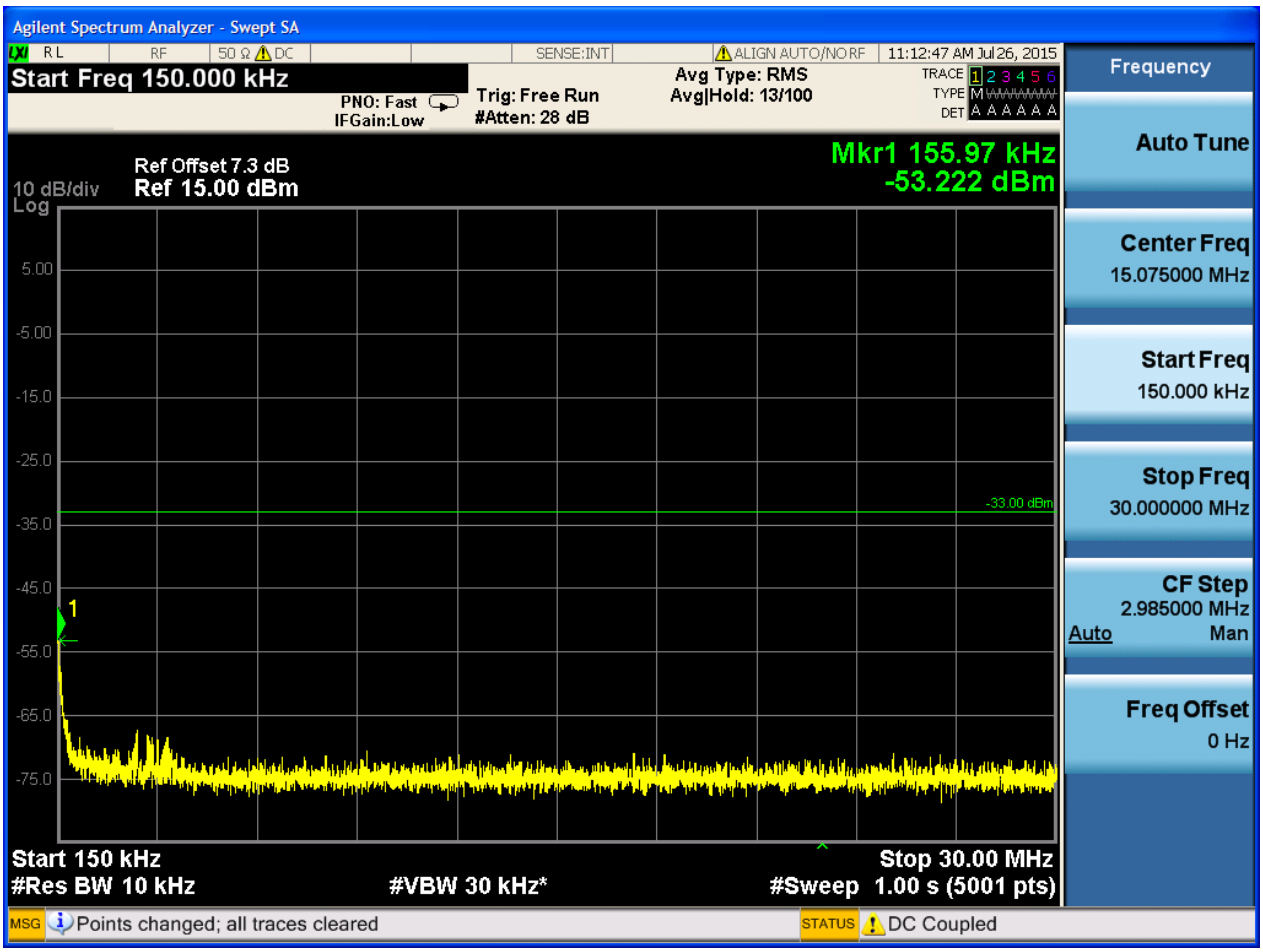

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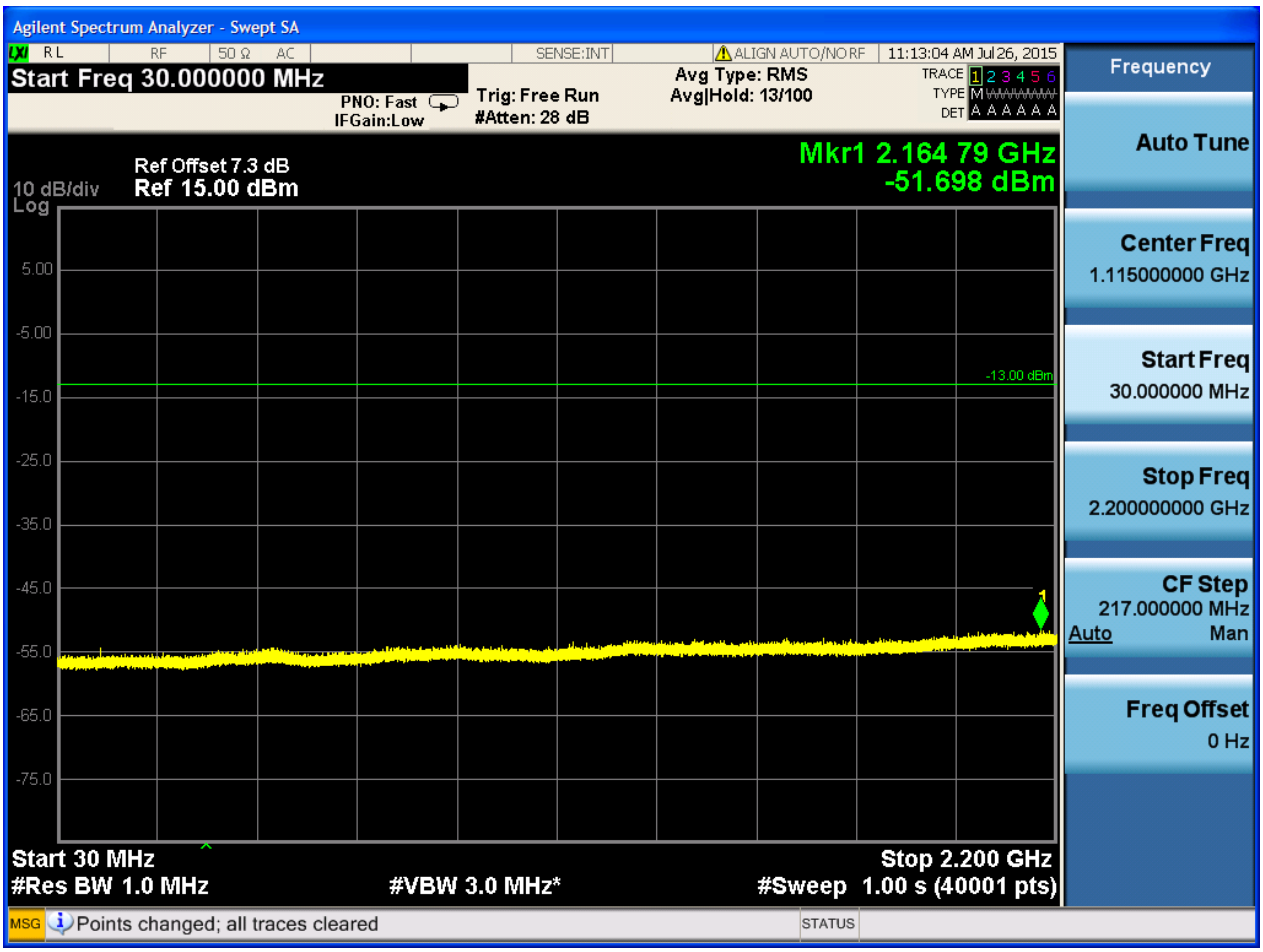

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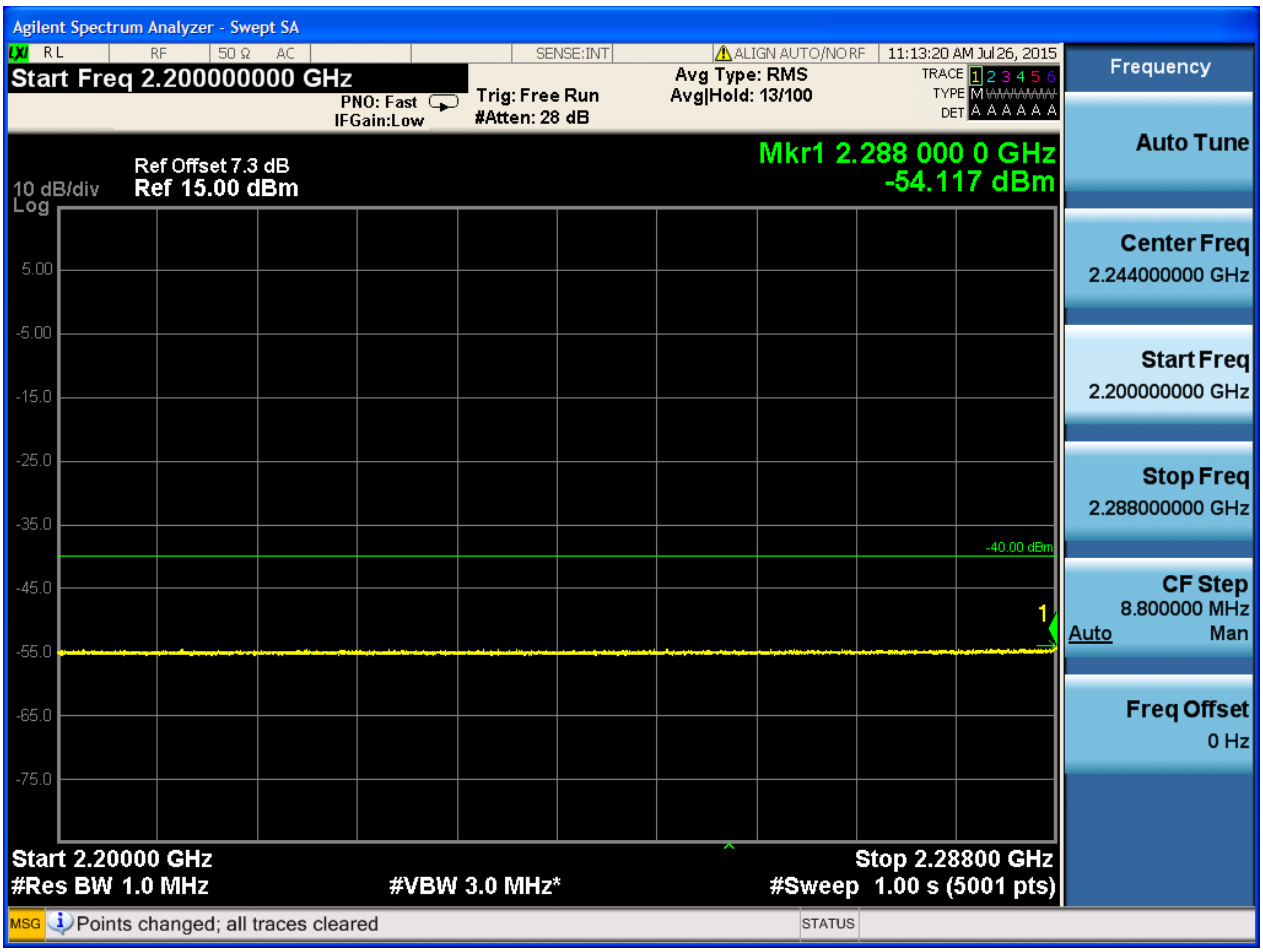

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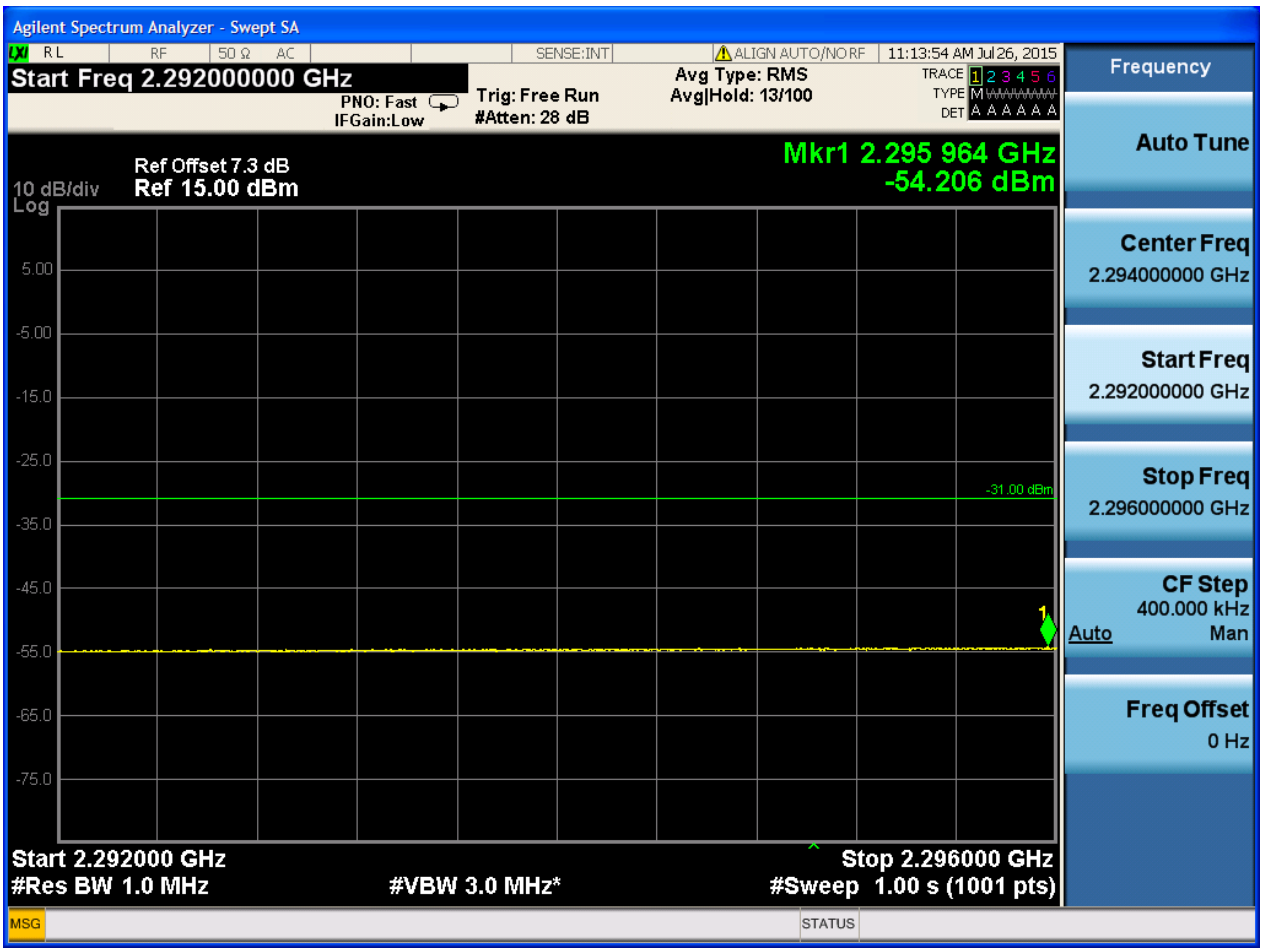

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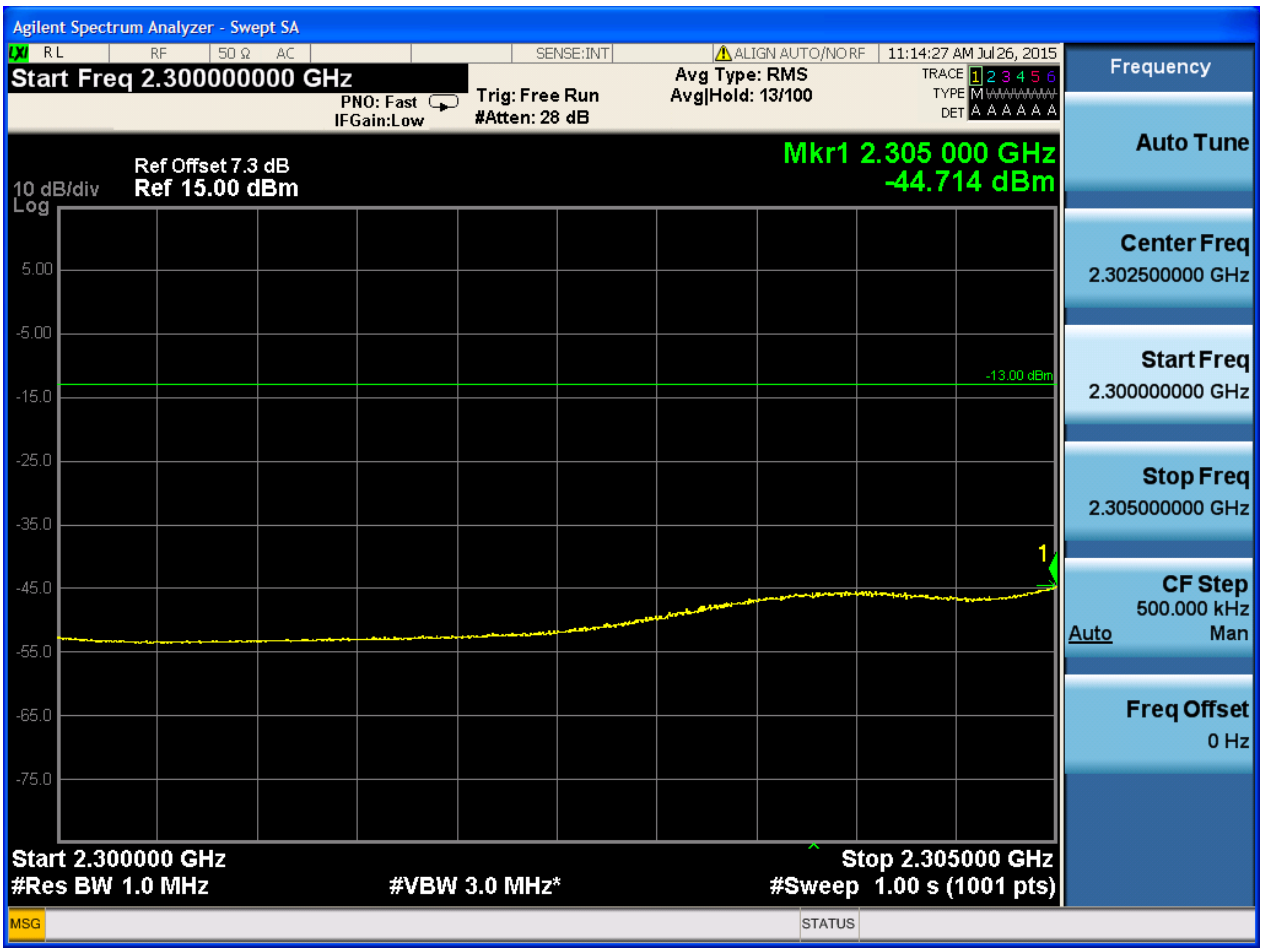

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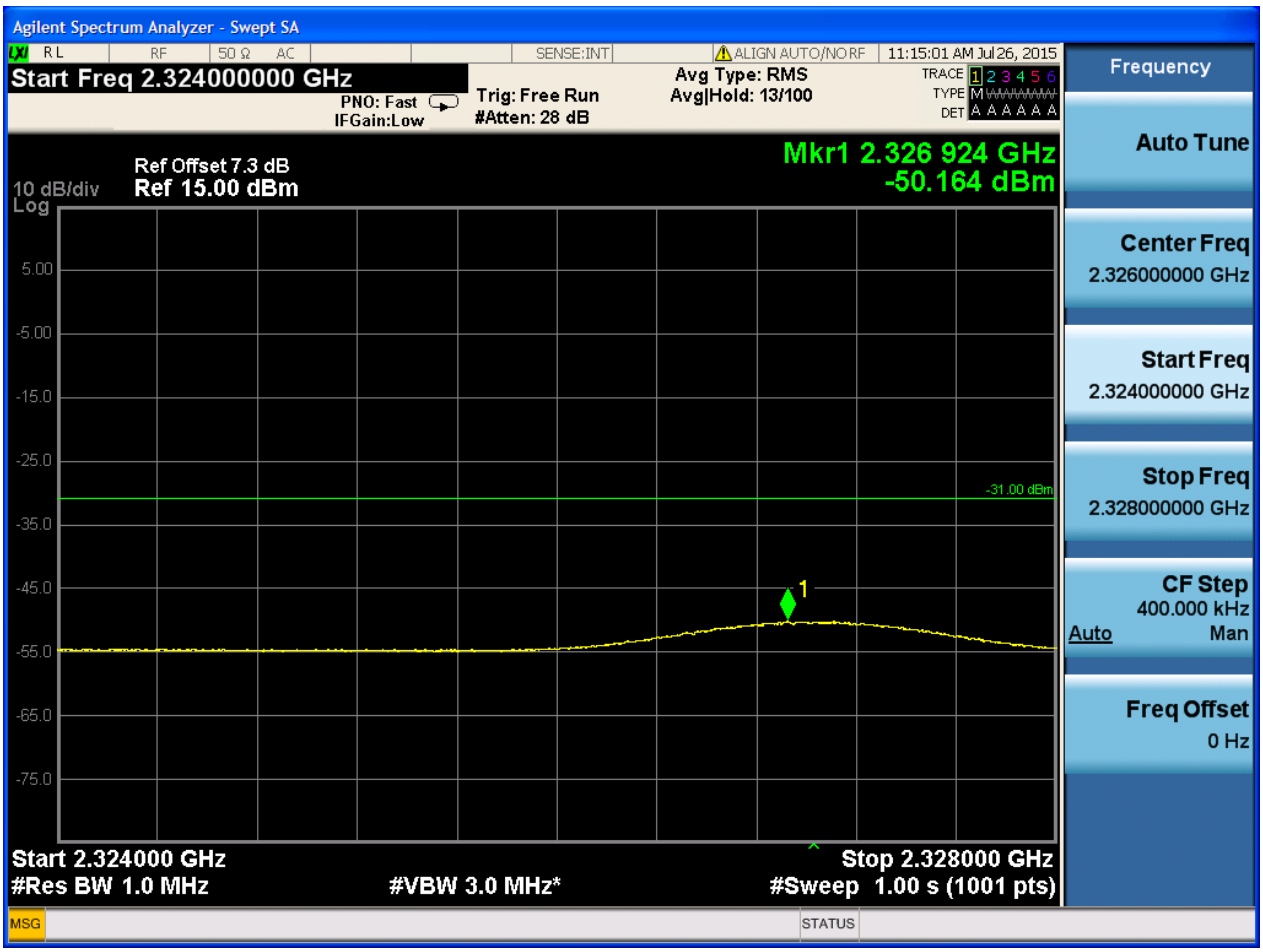
Agilent Spectrum Analyzer - Swept SA
Start Freq 2.320000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: RMS
Avg|Hold: 13/100
11:14:44 AM Jul 26, 2015
Ref Offset 7.3 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.320 568 GHz
-54.251 dBm
-25.00 dBm
Start 2.320000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 2.324000 GHz
#Sweep 1.00 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.322000000 GHz
Start Freq
2.320000000 GHz
Stop Freq
2.324000000 GHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Start Freq 2.324000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: RMS
Avg|Hold: 13/100
11:15:01 AM Jul 26, 2015
Ref Offset 7.3 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.326 924 GHz
-50.164 dBm
-31.00 dBm
Start 2.324000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 2.328000 GHz
#Sweep 1.00 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.326000000 GHz
Start Freq
2.324000000 GHz
Stop Freq
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CF Step
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Auto
Man
Freq Offset
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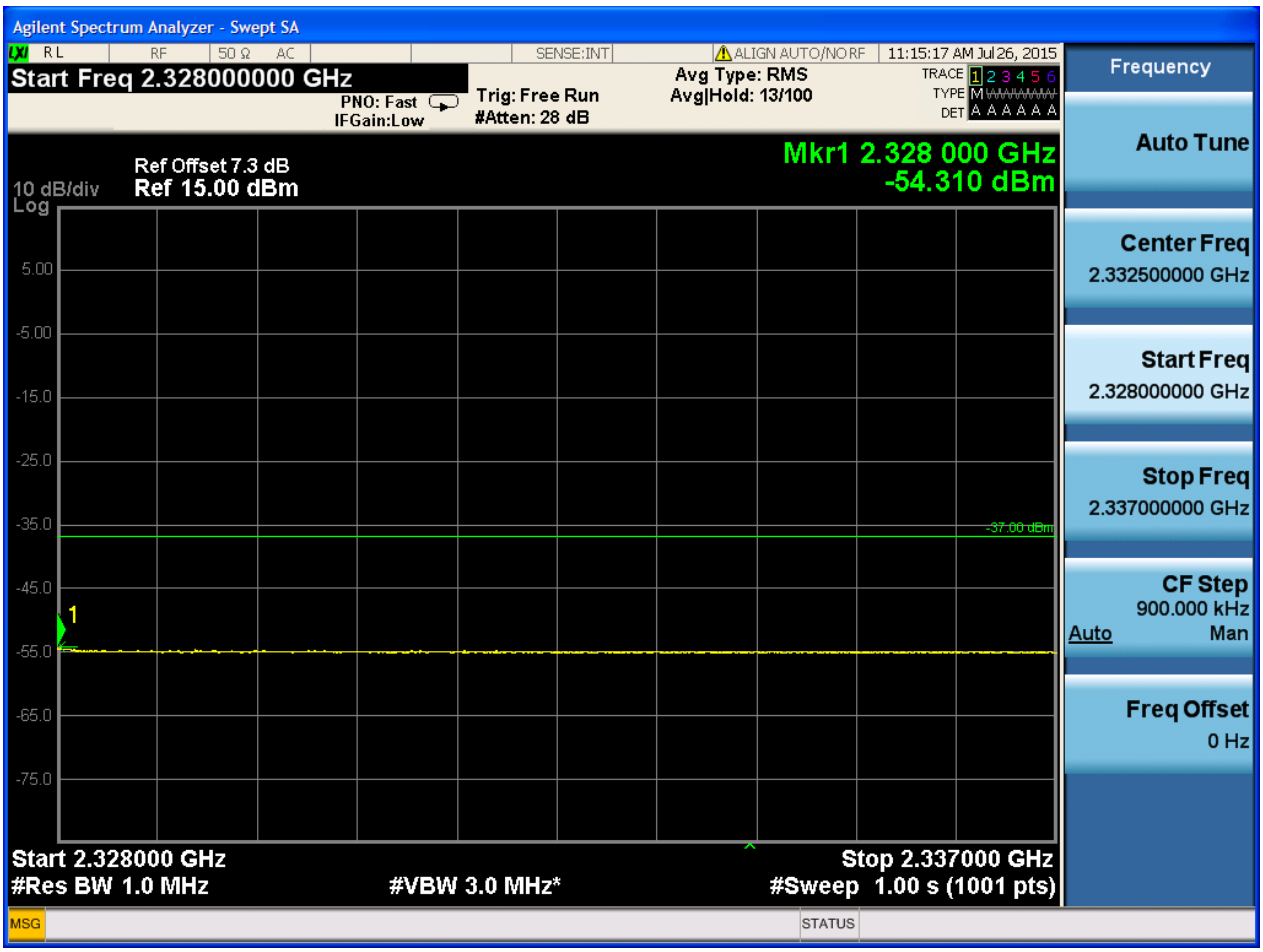

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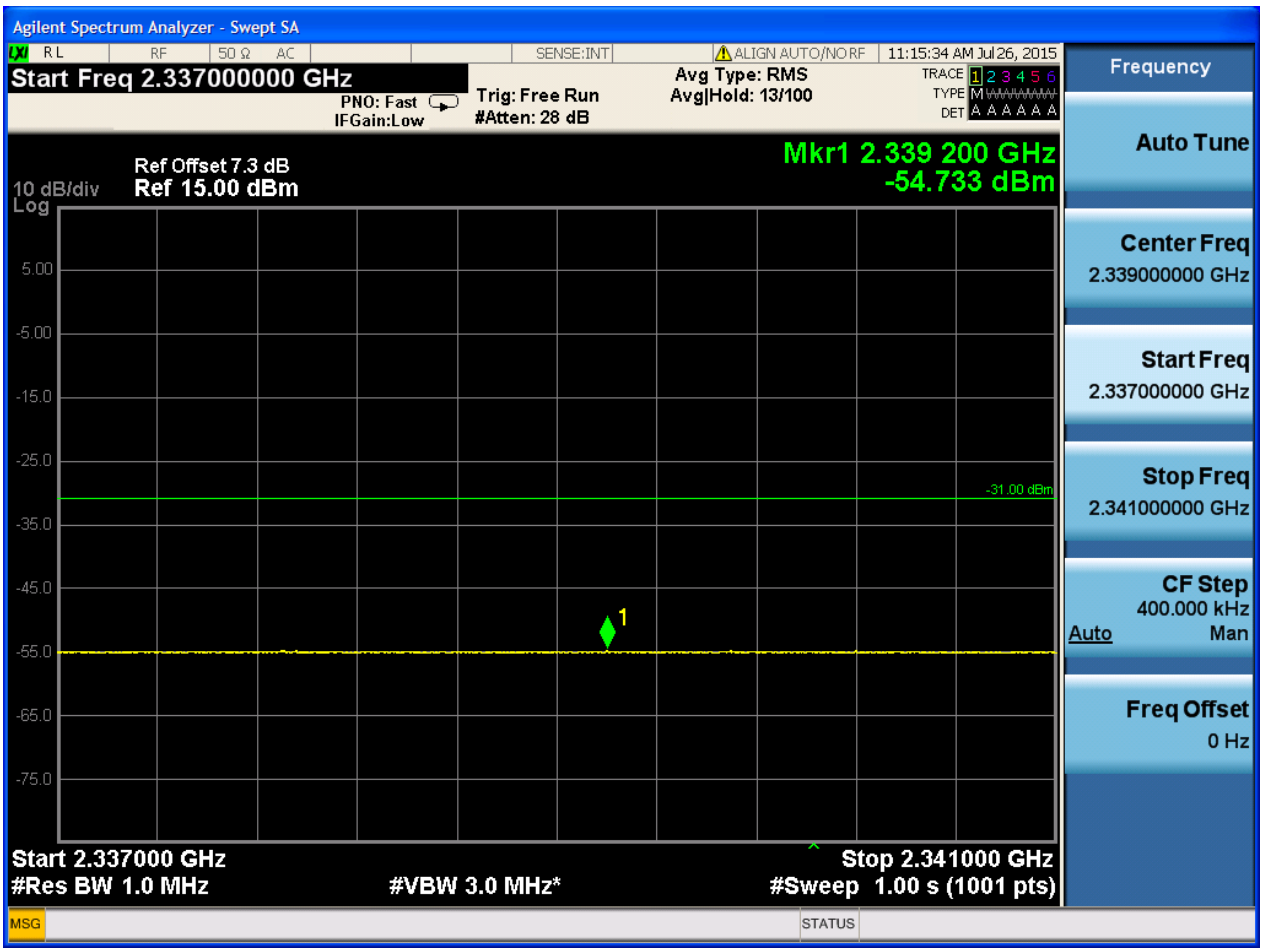

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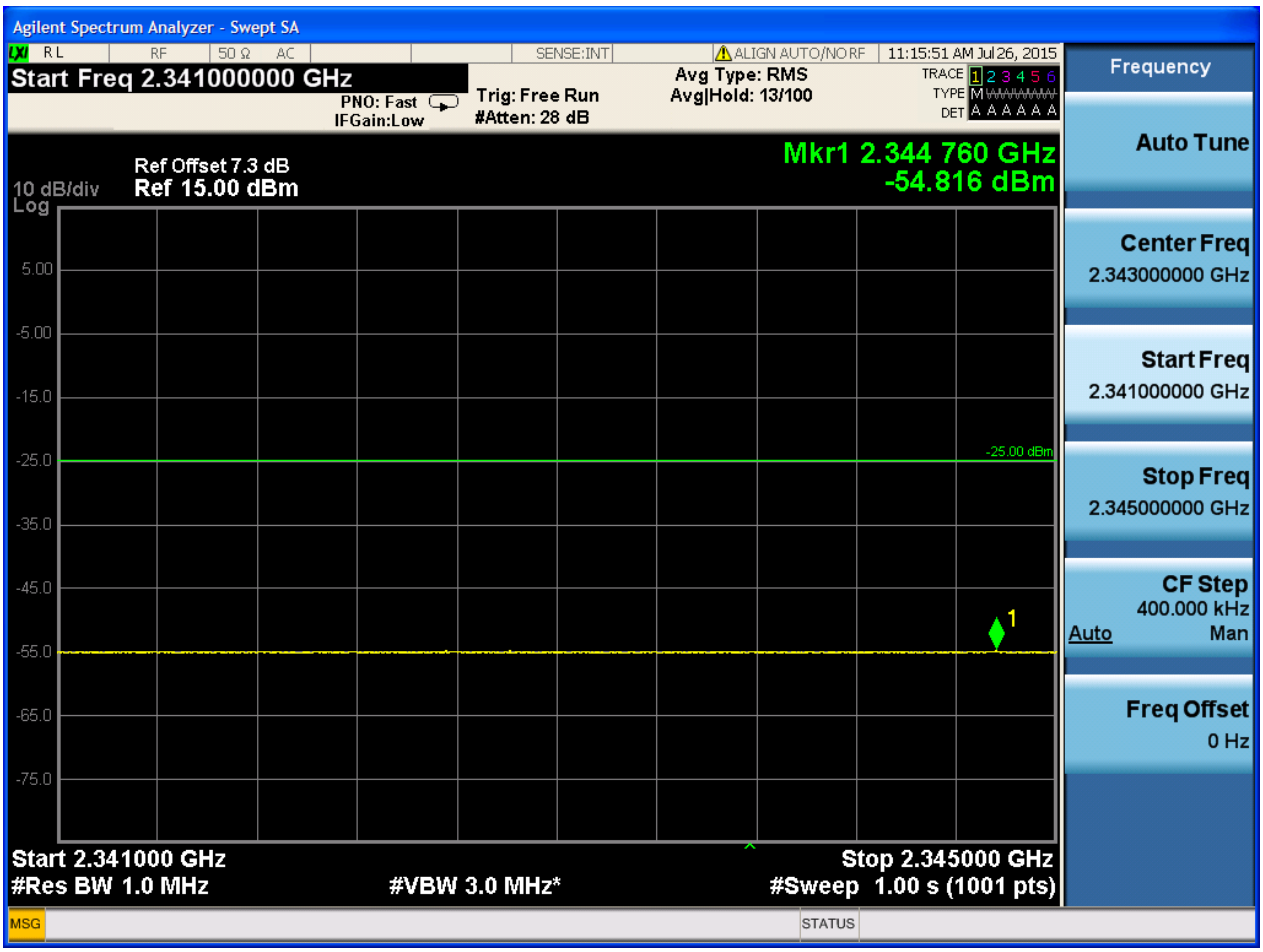

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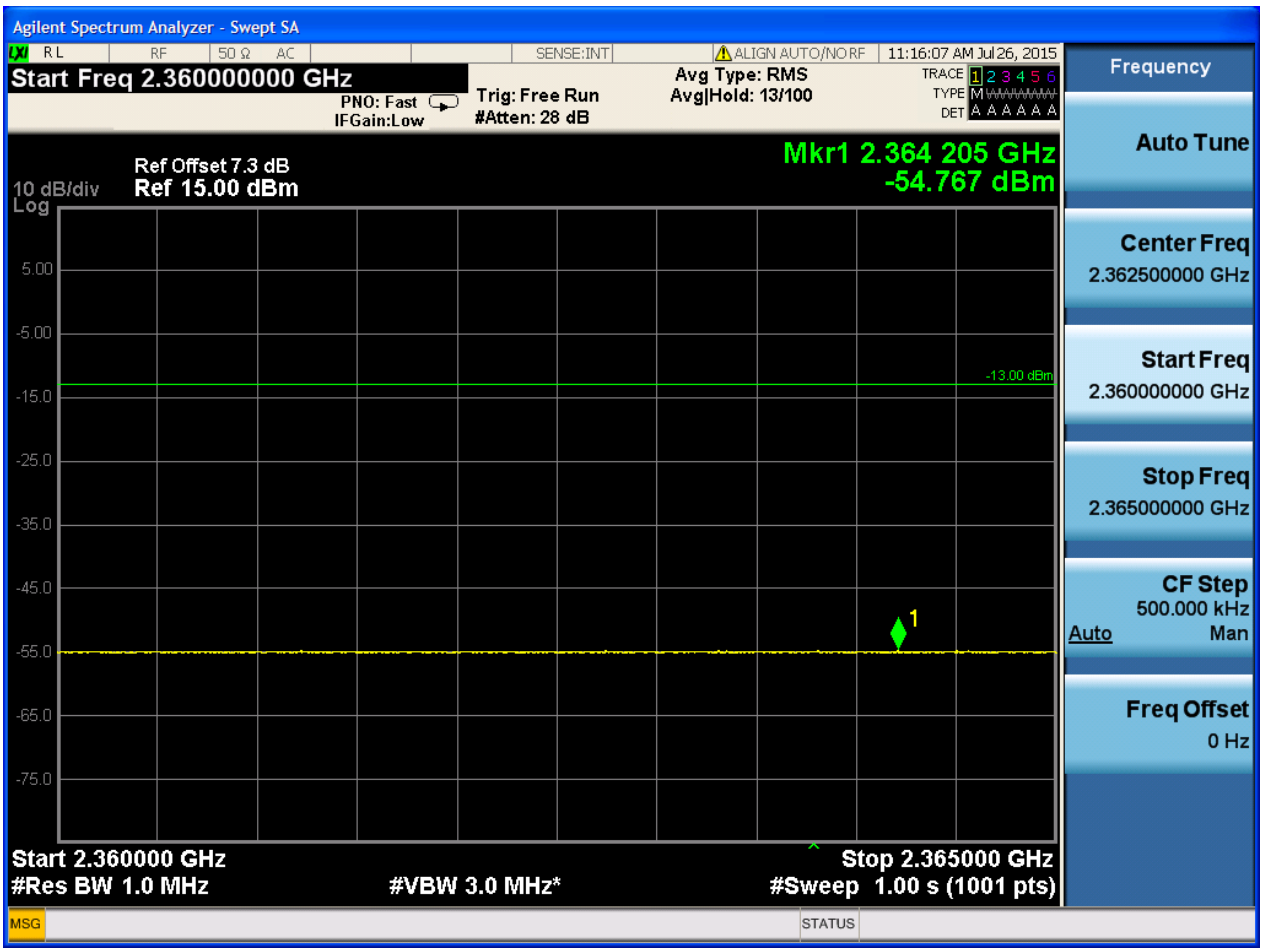
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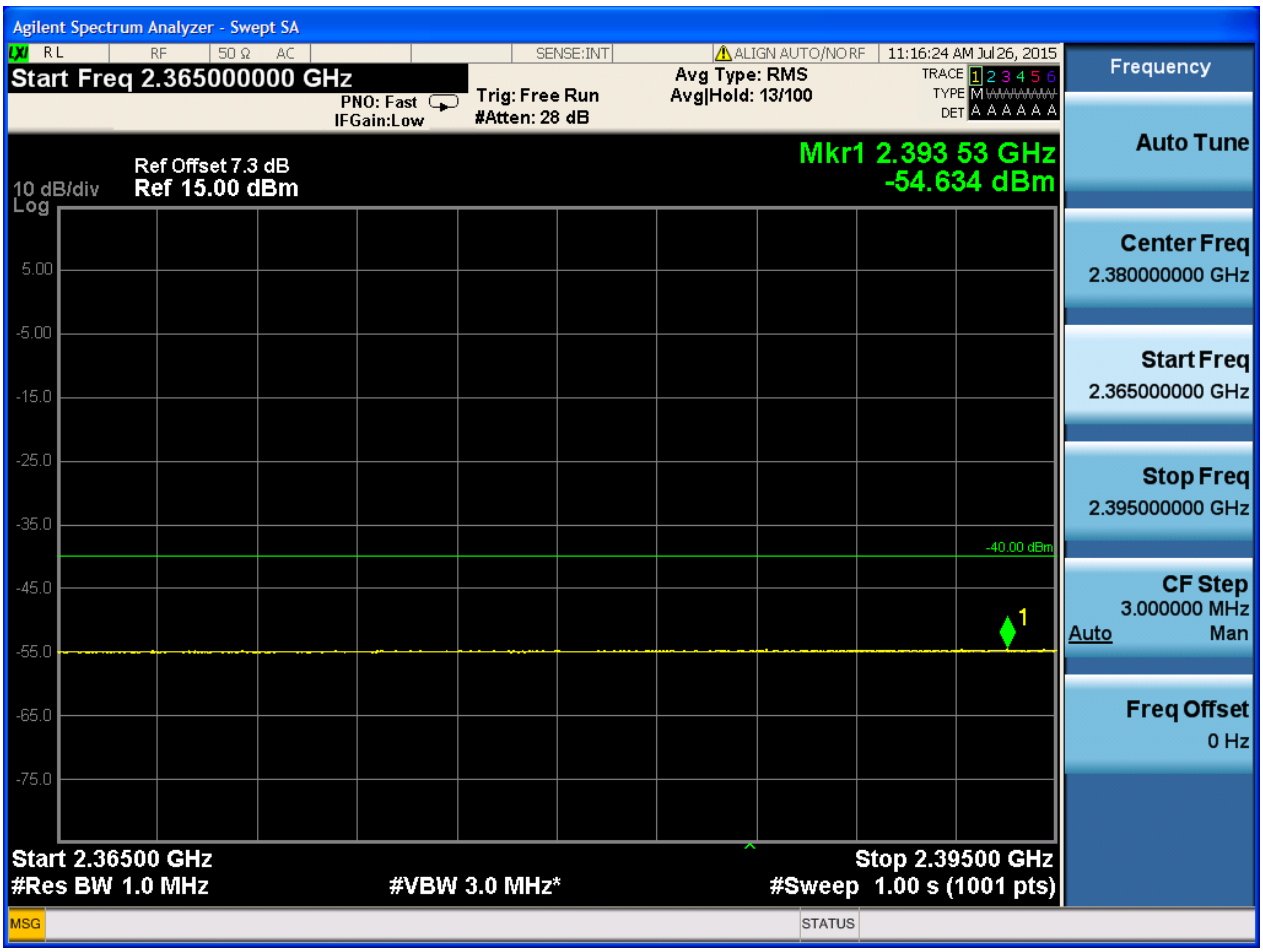
Start Freq 2.360000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: RMS
Avg|Hold: 13/100
11:16:07 AM Jul 26, 2015
Ref Offset 7.3 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.364 205 GHz
-54.767 dBm
-13.00 dBm
Start 2.360000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 2.365000 GHz
#Sweep 1.00 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.362500000 GHz
Start Freq
2.360000000 GHz
Stop Freq
2.365000000 GHz
CF Step
500.000 kHz
Auto
Man
Freq Offset
0 Hz



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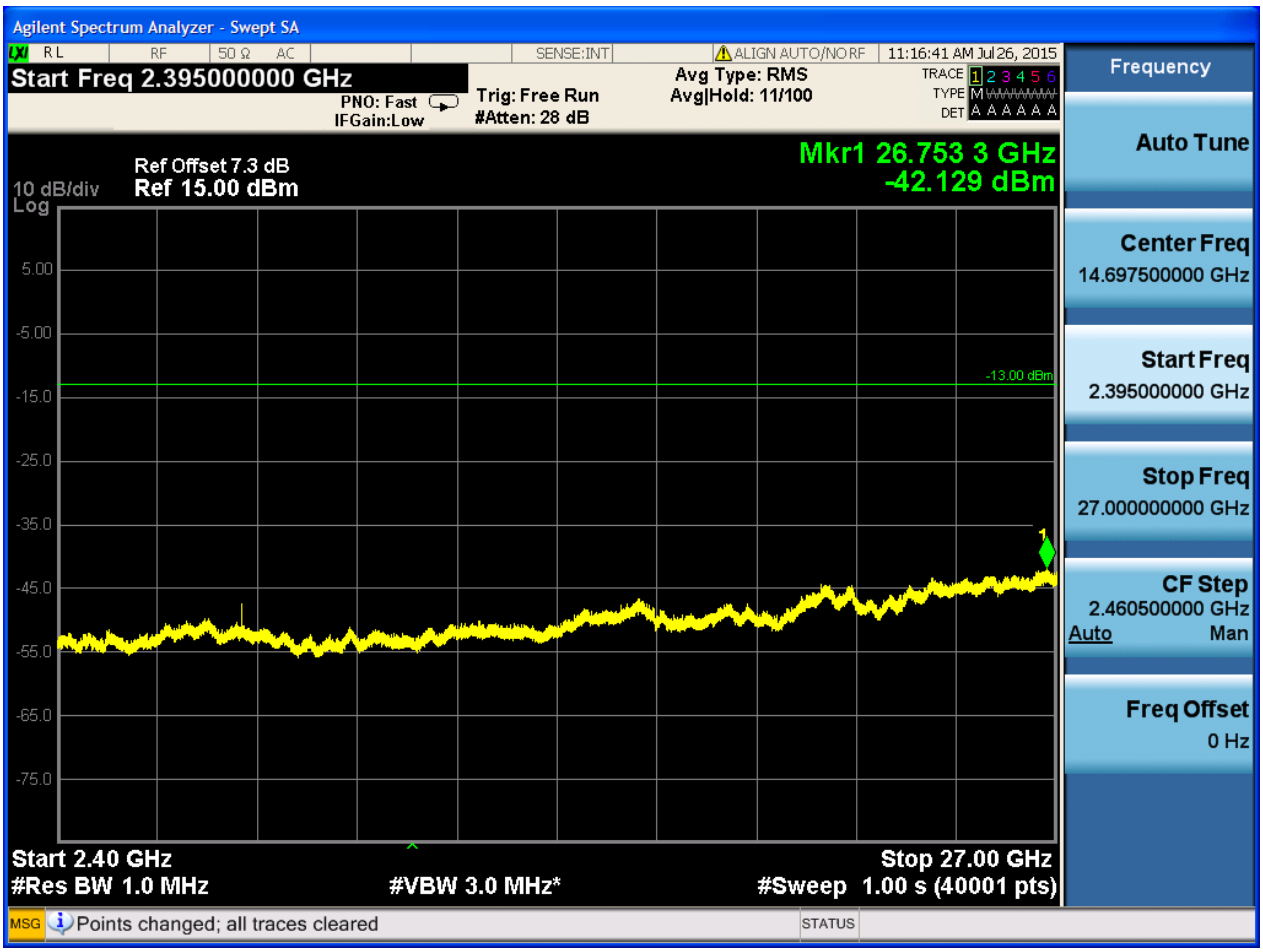

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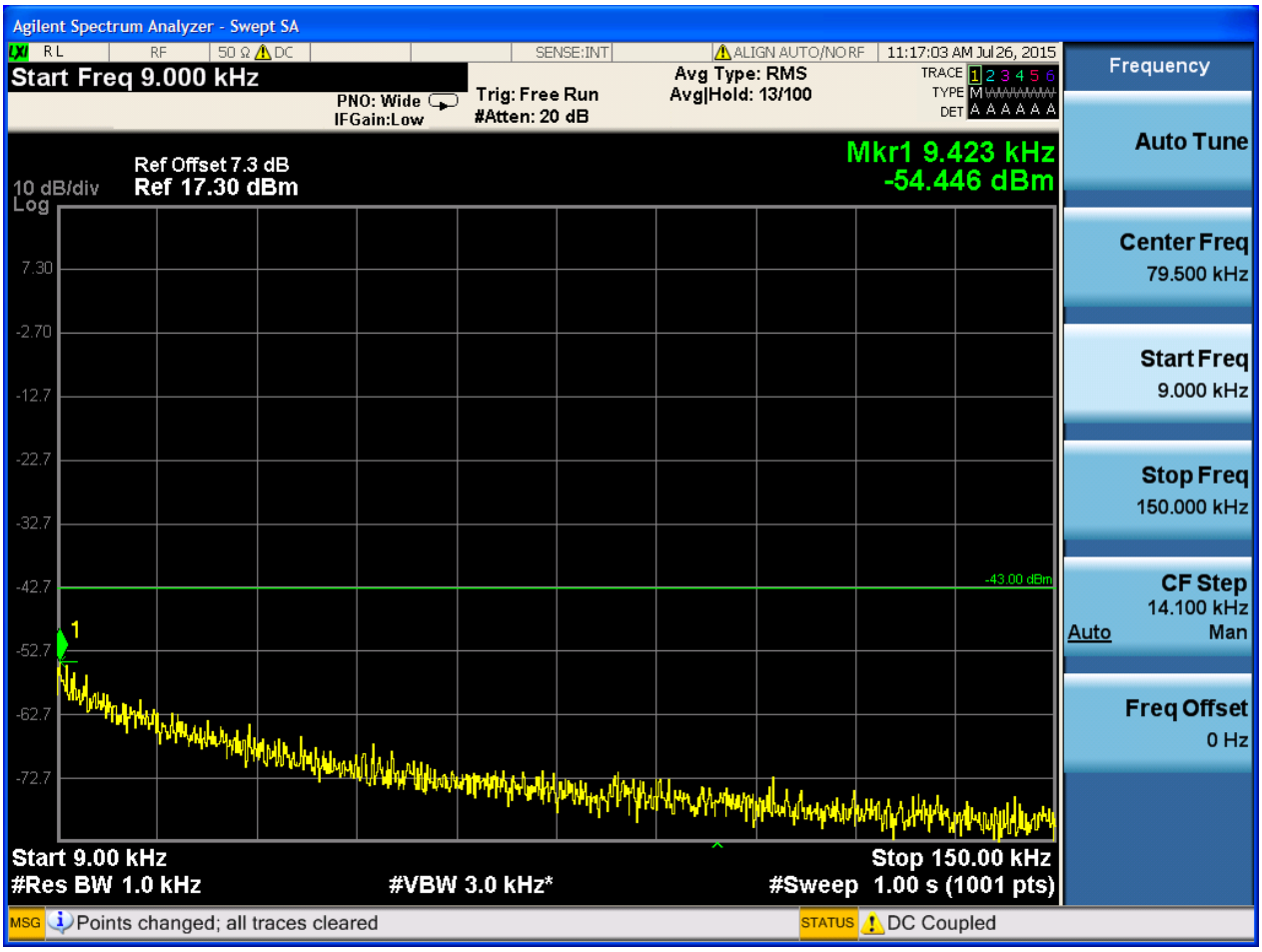
6.3.1.1.1.3 Test Channel = HCH

6.3.1.1.1.3.1 Test RB = RB1#0



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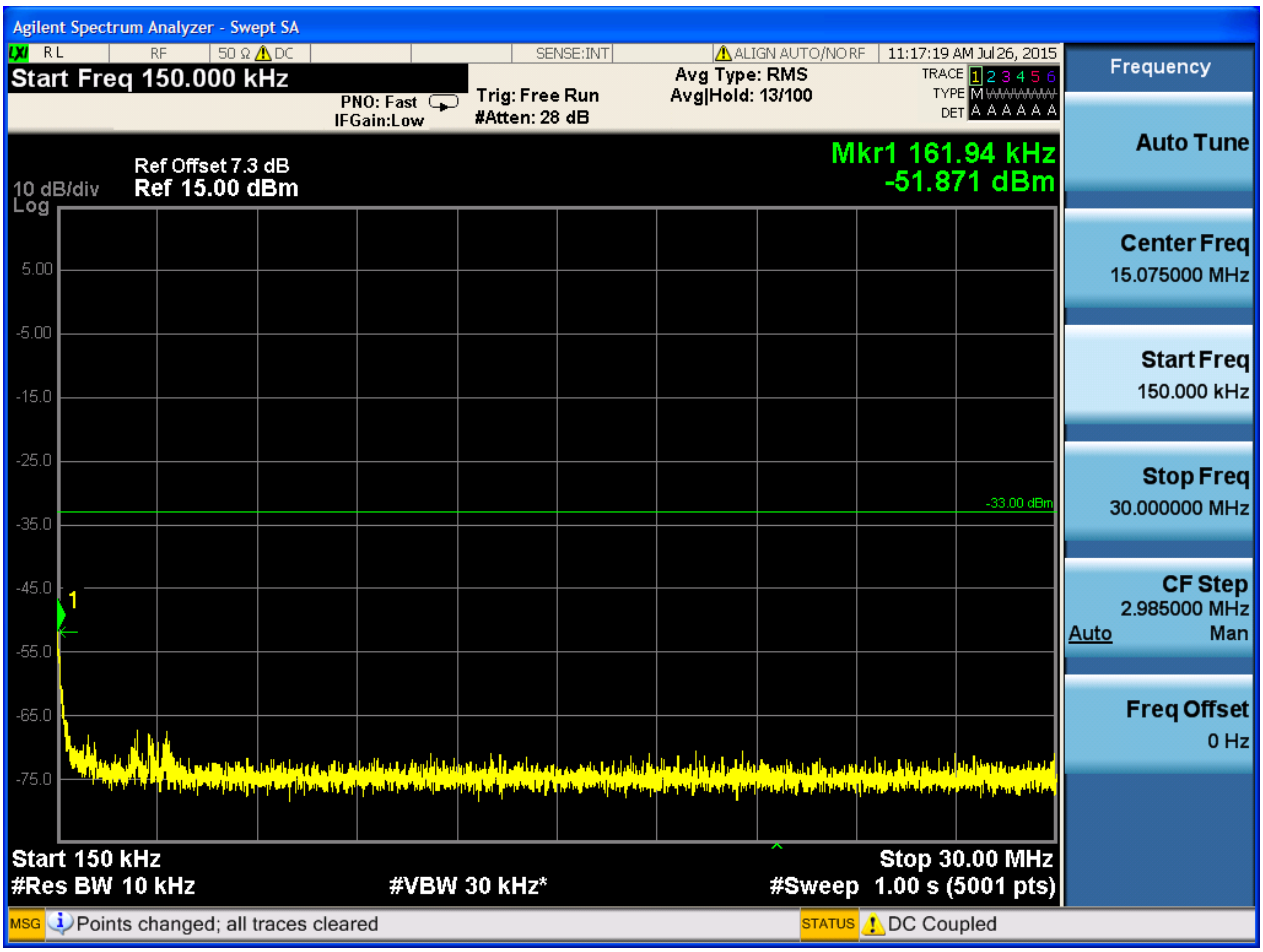

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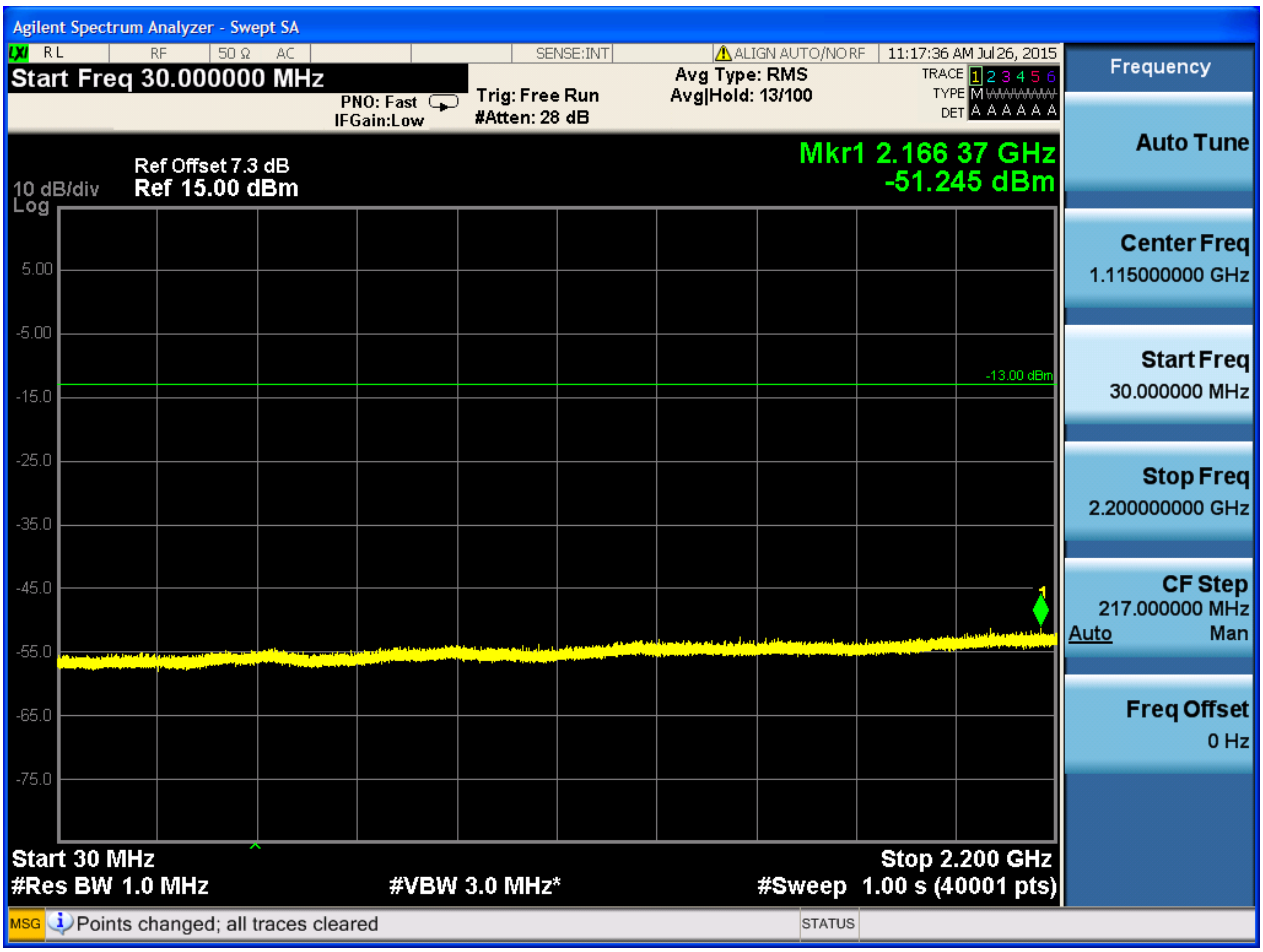

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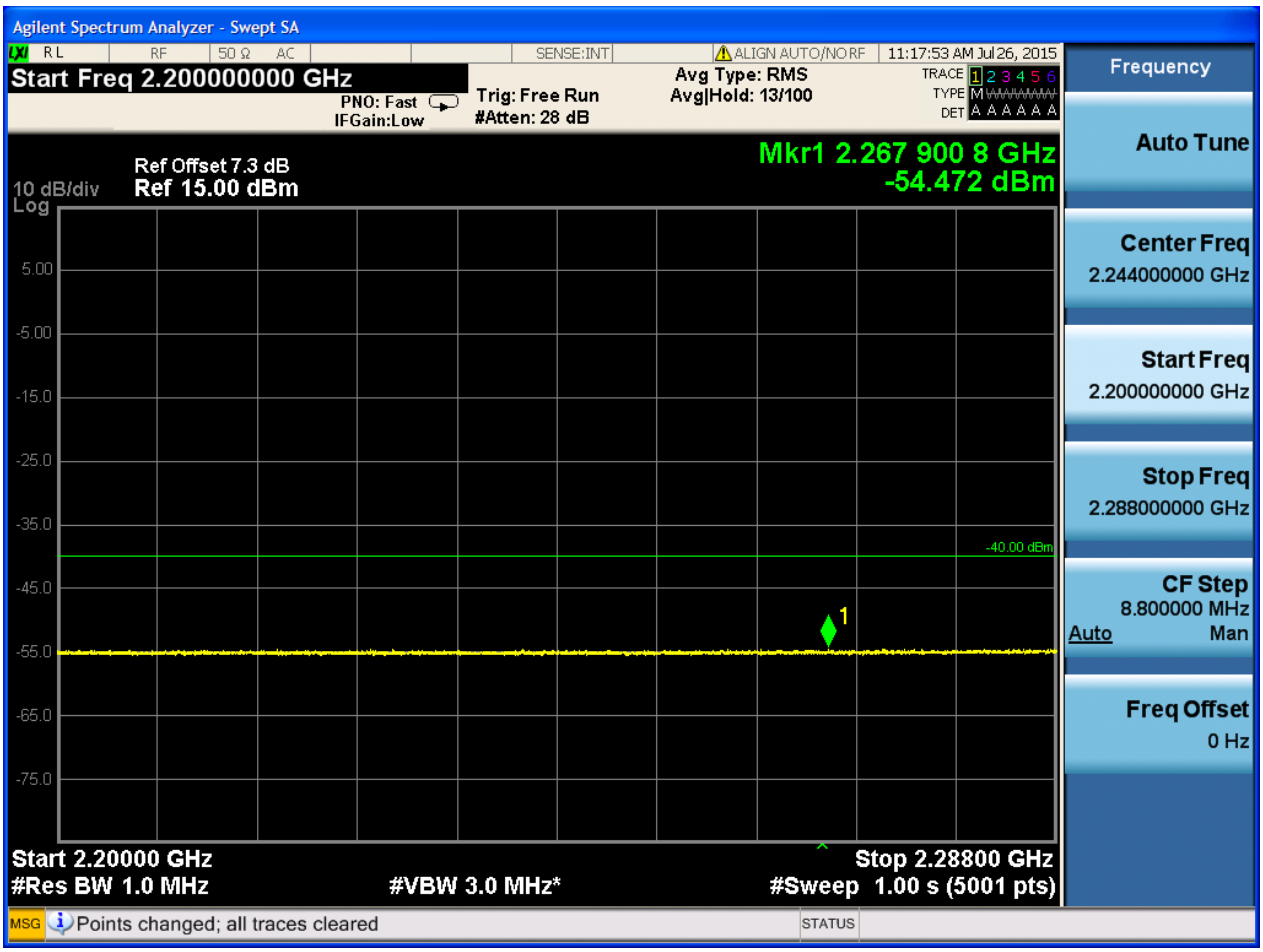

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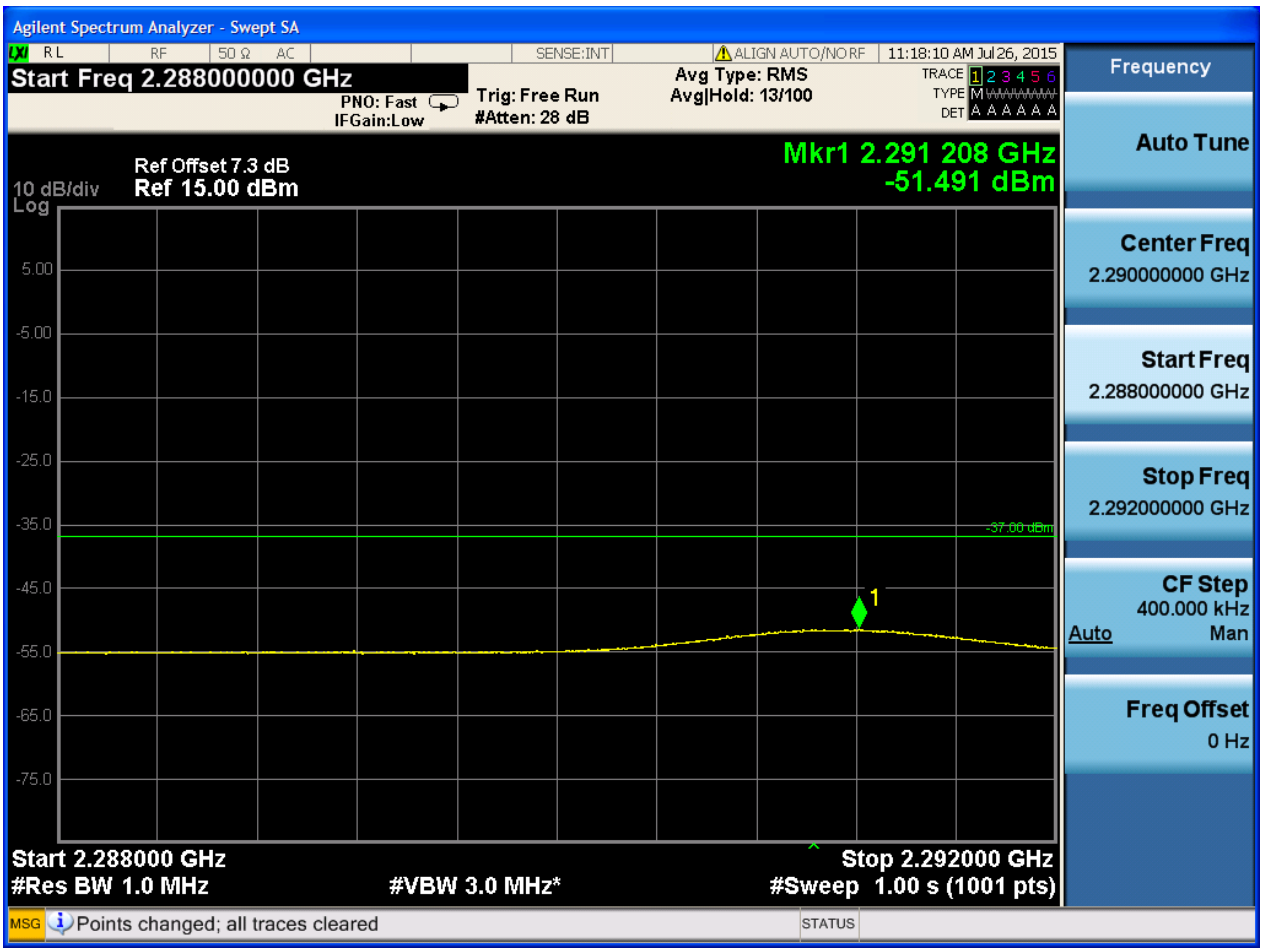

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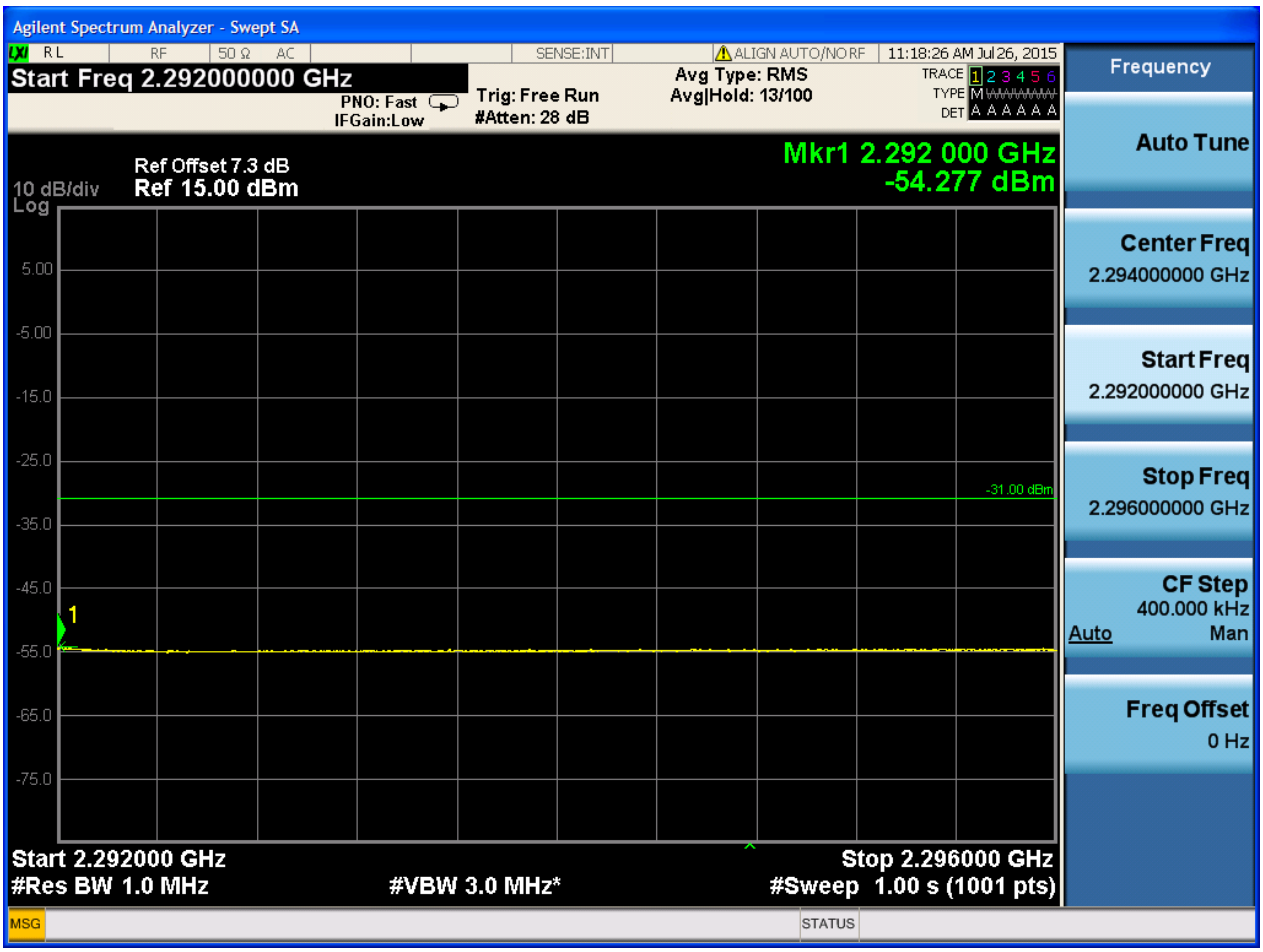
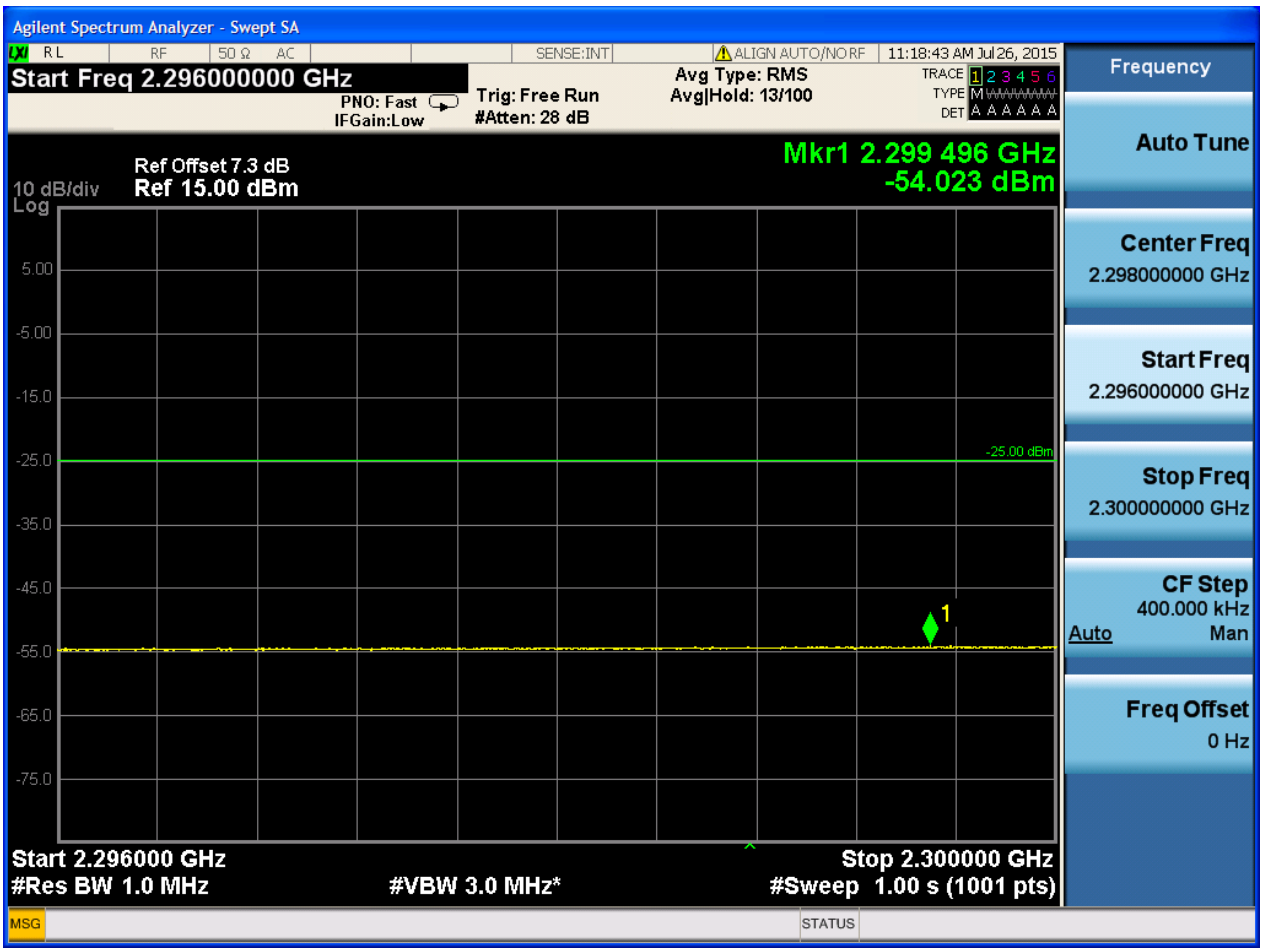

Agilent Spectrum Analyzer - Swept SA
Start Freq 2.292000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: RMS
Avg|Hold: 13/100
11:18:26 AM Jul 26, 2015
Ref Offset 7.3 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.292 000 GHz
-54.277 dBm
-31.00 dBm
Start 2.292000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 2.296000 GHz
#Sweep 1.00 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.294000000 GHz
Start Freq
2.292000000 GHz
Stop Freq
2.296000000 GHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz



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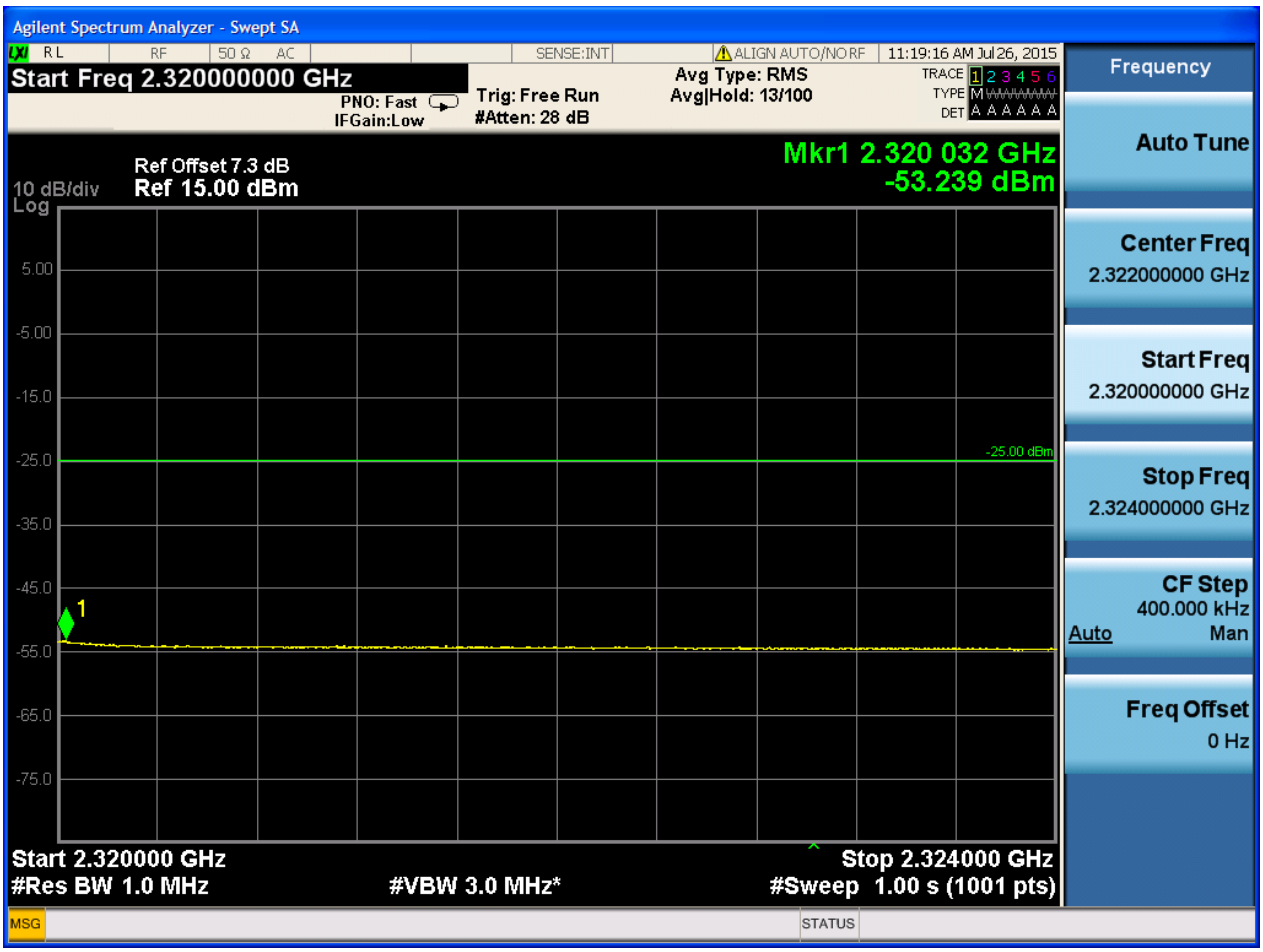

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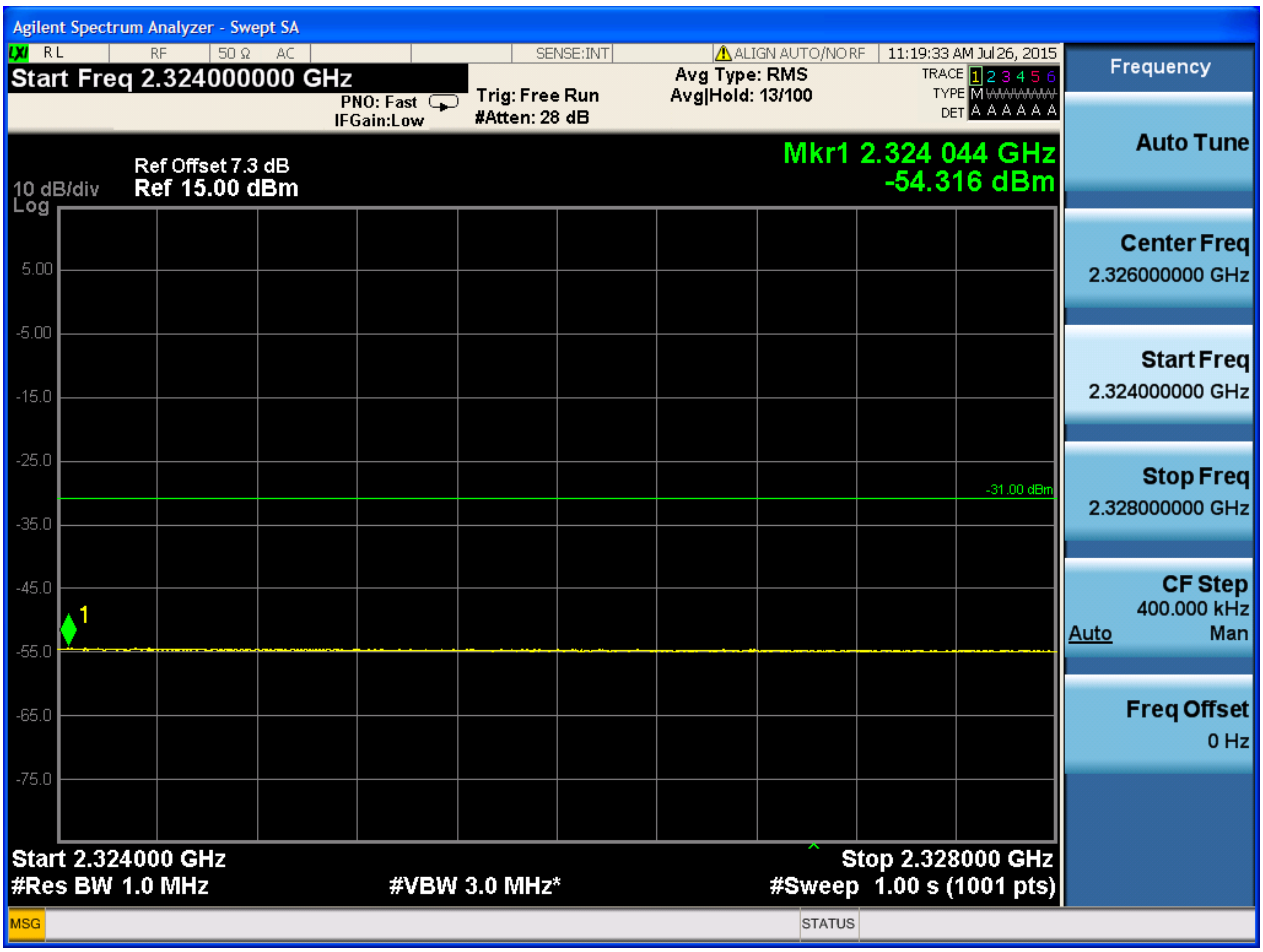
Agilent Spectrum Analyzer - Swept SA
Start Freq 2.324000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: RMS
Avg|Hold: 13/100
11:19:33 AM Jul 26, 2015
Ref Offset 7.3 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.324 044 GHz
-54.316 dBm
-31.00 dBm
Start 2.324000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 2.328000 GHz
#Sweep 1.00 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.326000000 GHz
Start Freq
2.324000000 GHz
Stop Freq
2.328000000 GHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz

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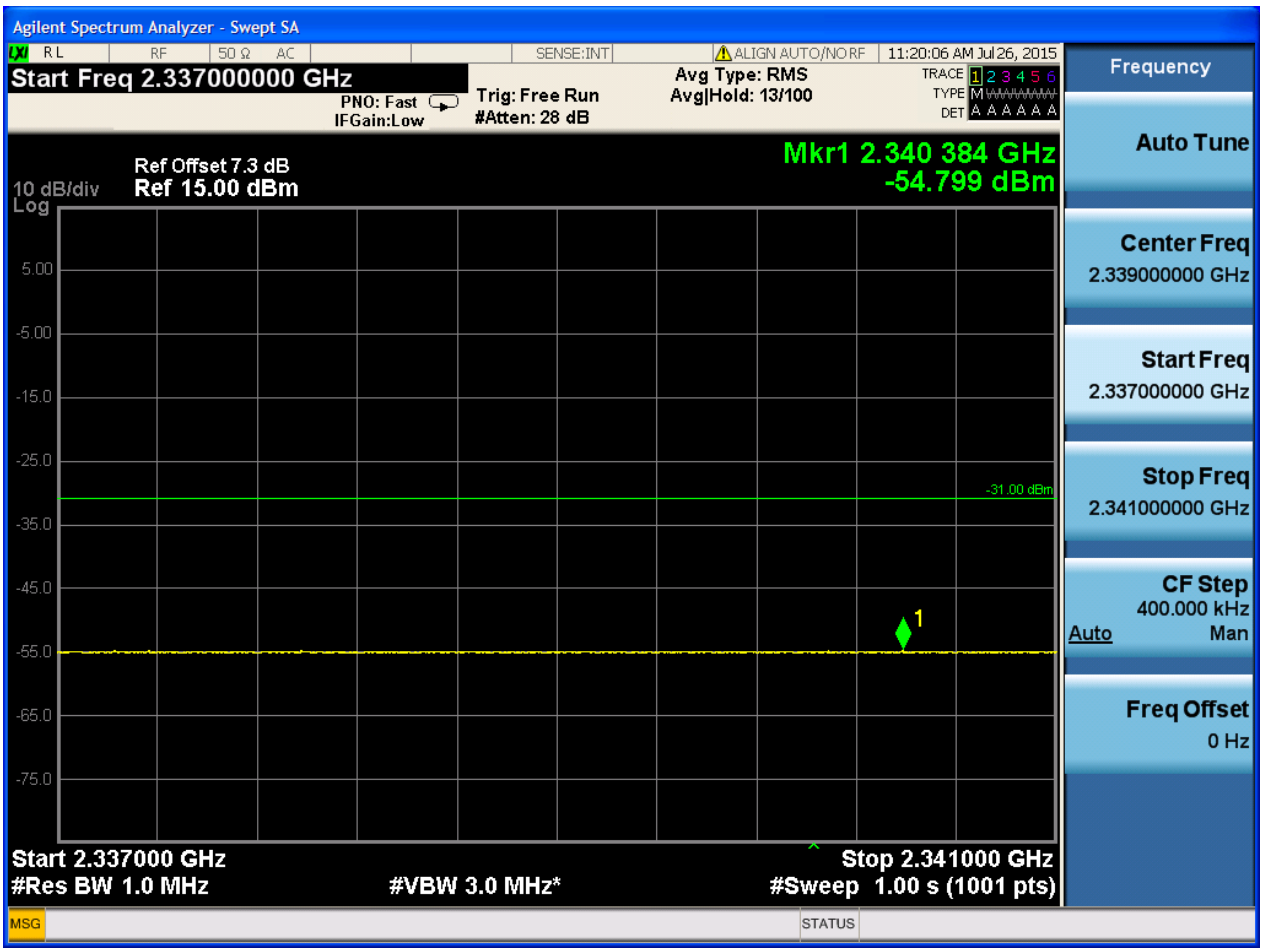
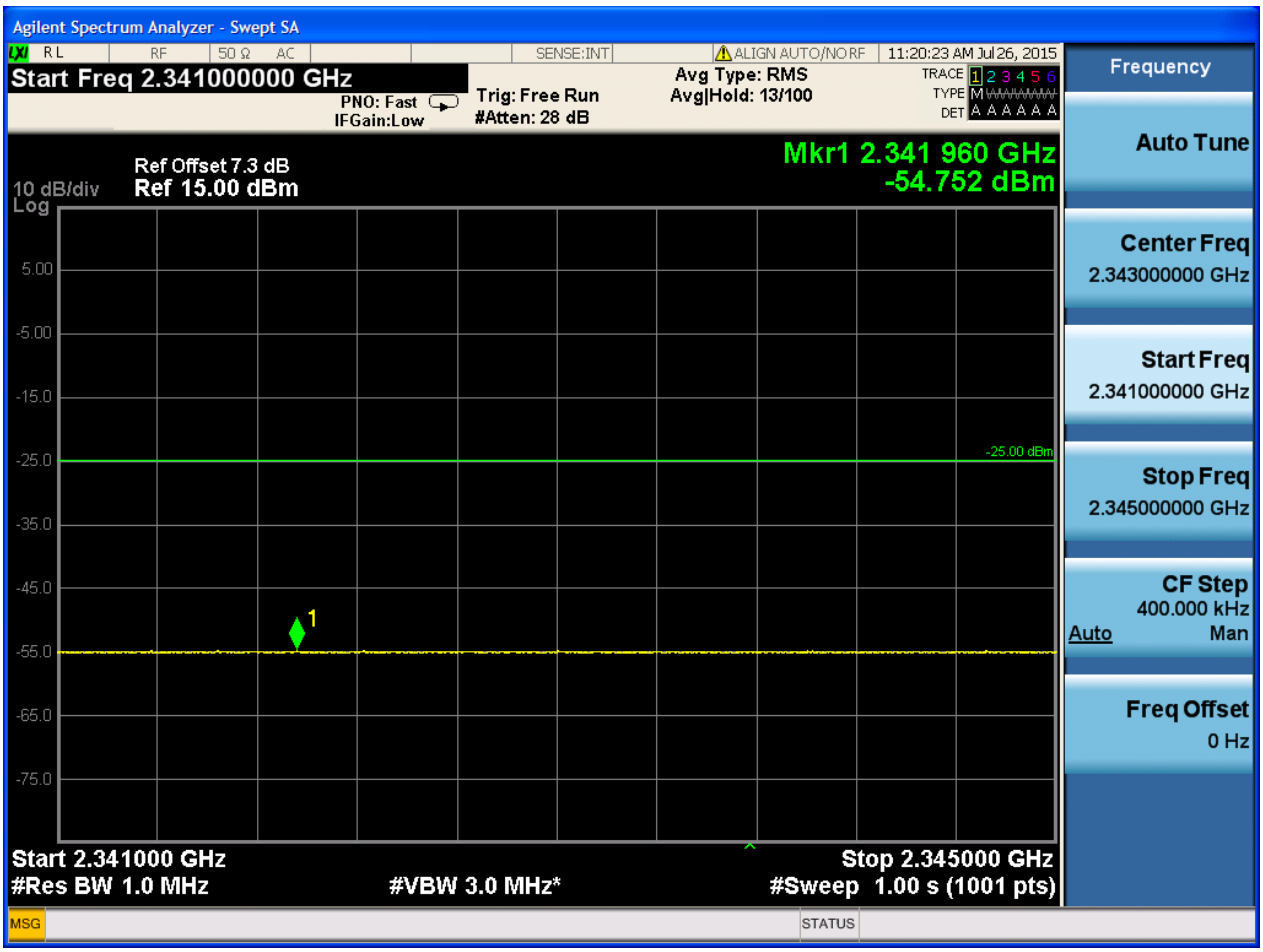

Agilent Spectrum Analyzer - Swept SA
Start Freq 2.337000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: RMS
Avg|Hold: 13/100
11:20:06 AM Jul 26, 2015
Ref Offset 7.3 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.340 384 GHz
-54.799 dBm
-31.00 dBm
Start 2.337000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 2.341000 GHz
#Sweep 1.00 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.339000000 GHz
Start Freq
2.337000000 GHz
Stop Freq
2.341000000 GHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz



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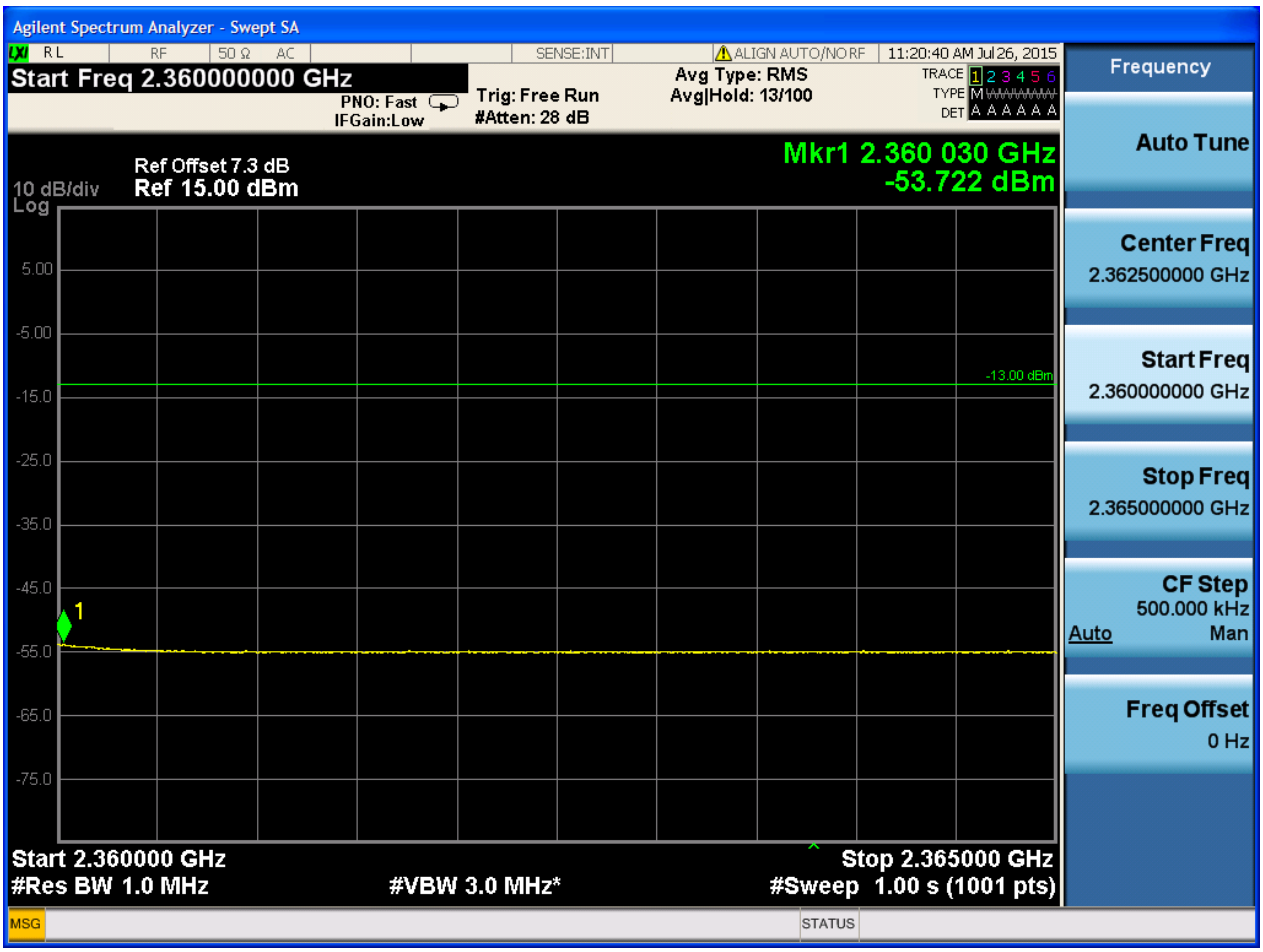

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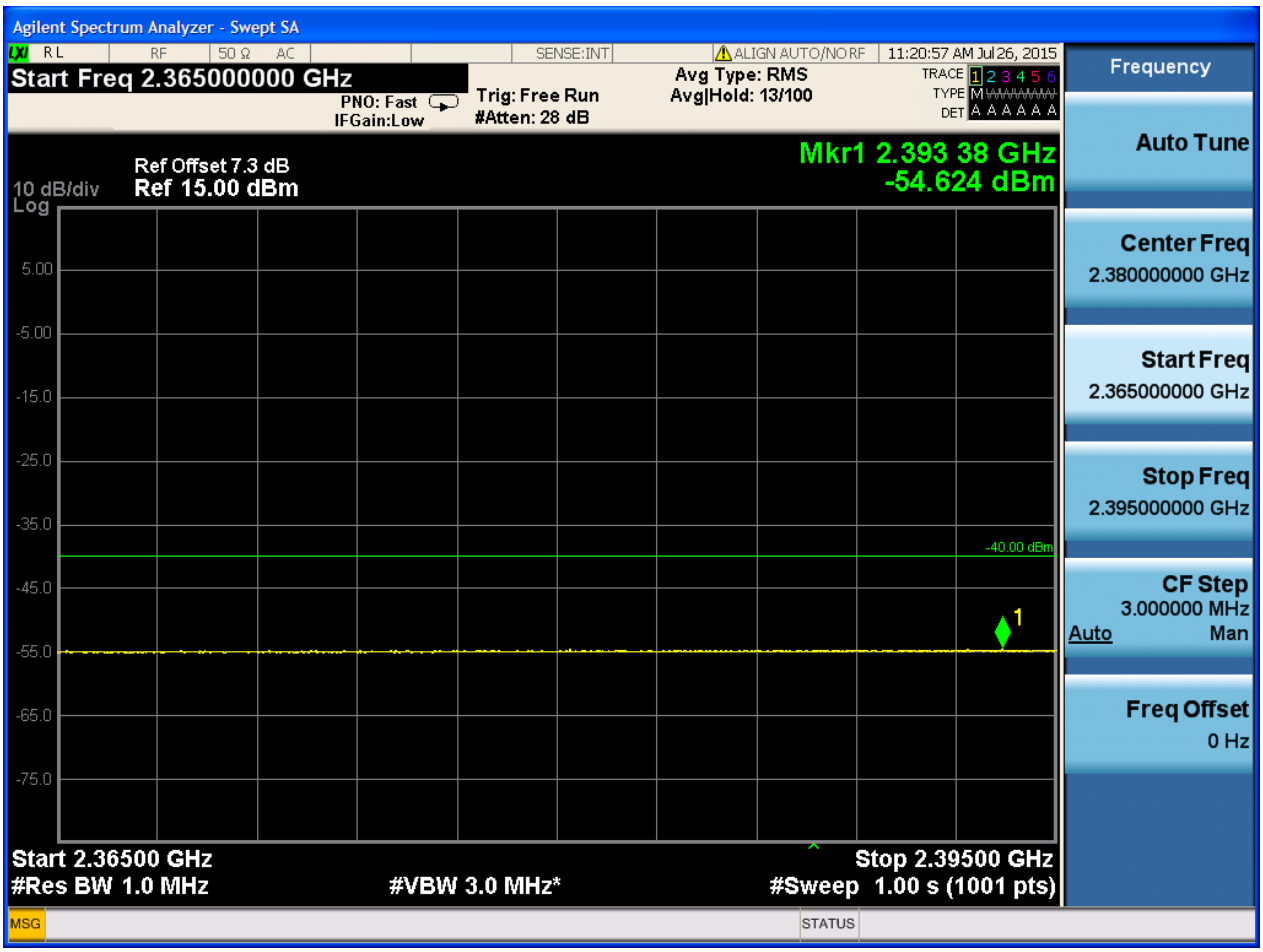
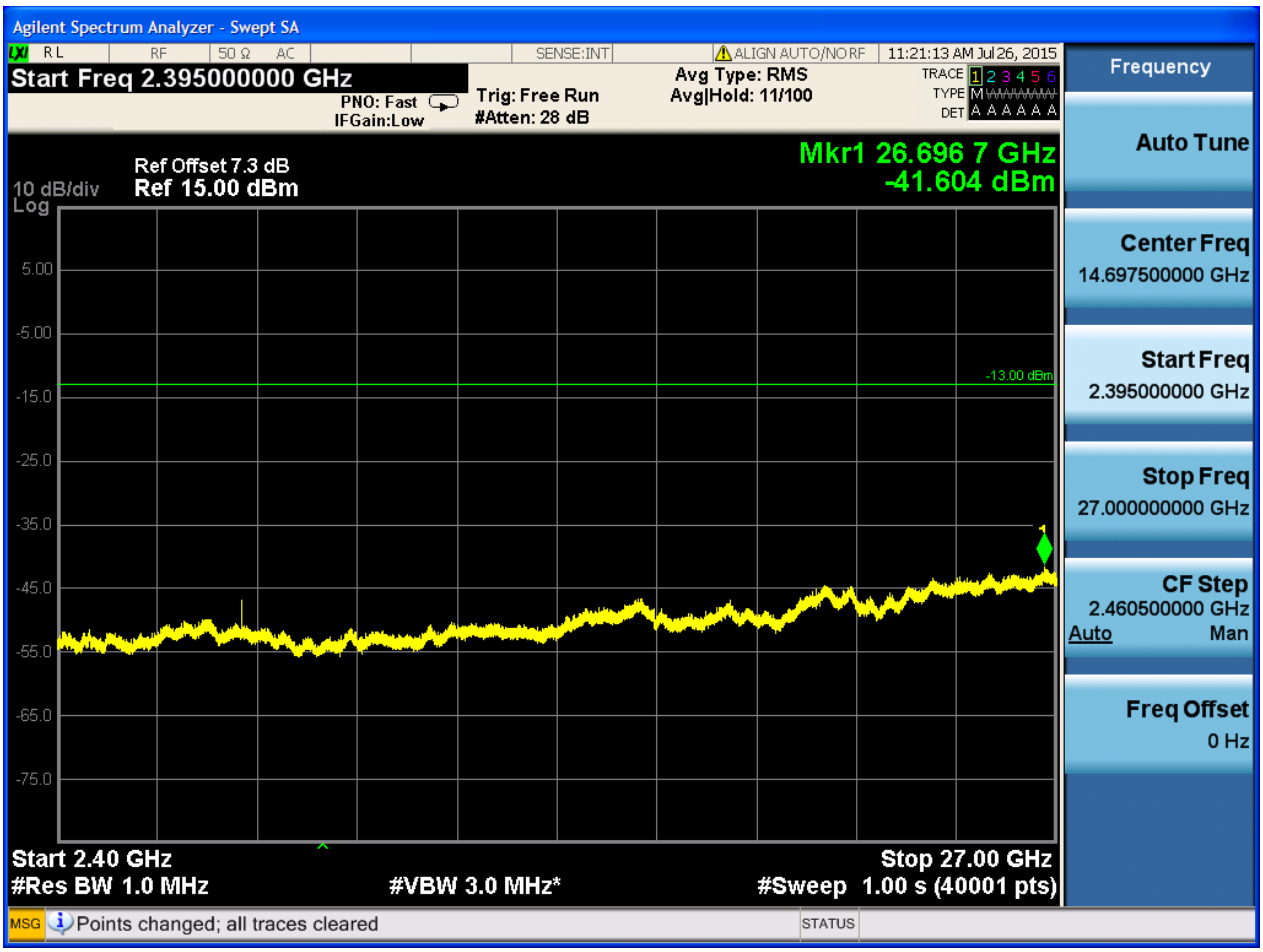

Agilent Spectrum Analyzer - Swept SA
Start Freq 2.365000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: RMS
Avg|Hold: 13/100
11:20:57 AM Jul 26, 2015
Ref Offset 7.3 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.393 38 GHz
-54.624 dBm
-40.00 dBm
Start 2.36500 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 2.39500 GHz
#Sweep 1.00 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.380000000 GHz
Start Freq
2.365000000 GHz
Stop Freq
2.395000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz



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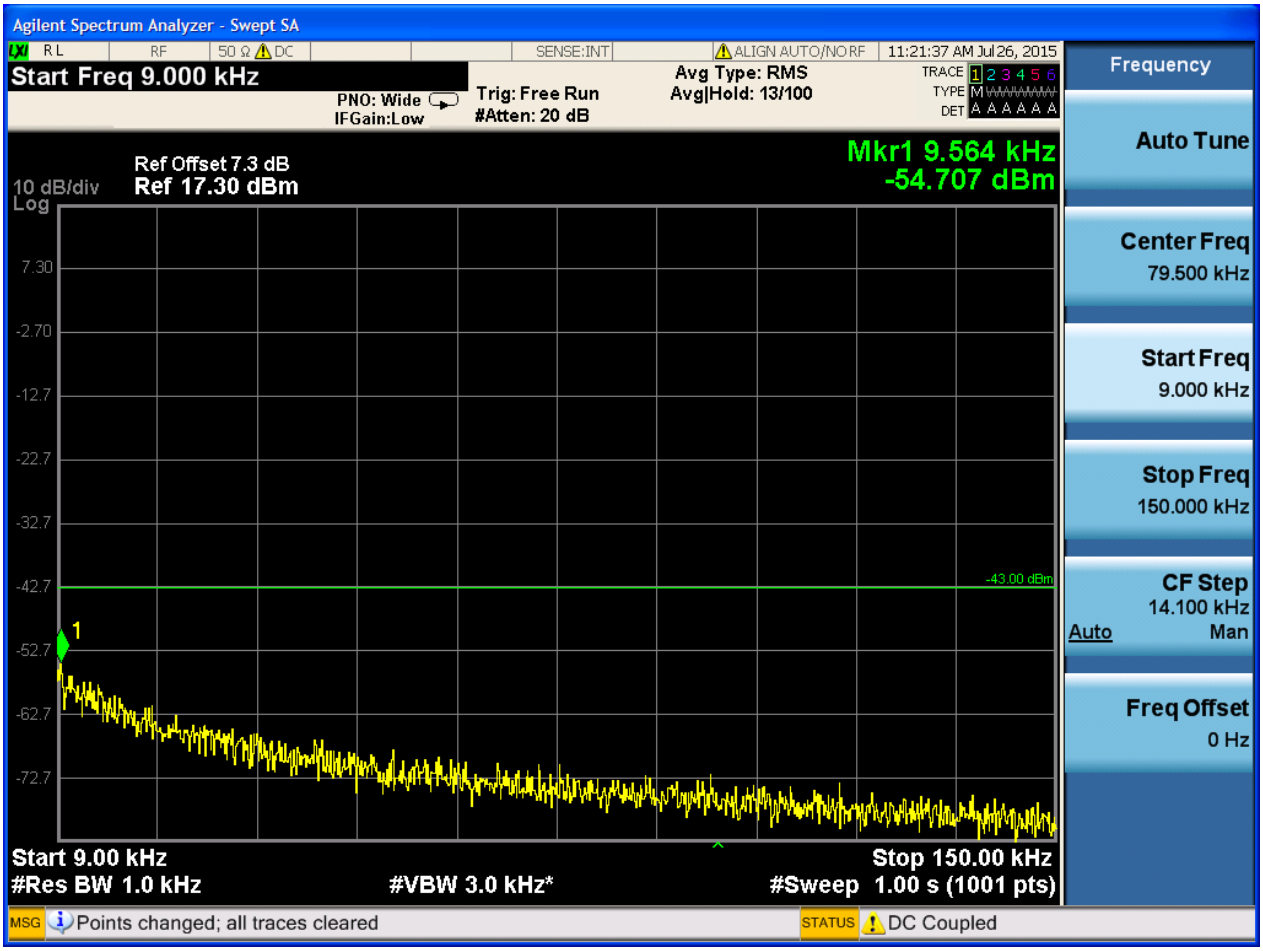
6.3.1.1.2 Test Bandwidth = 10

6.3.1.1.2.1 Test Channel = LCH/MCH/HCH

6.3.1.1.2.1.1 Test RB = RB1#0



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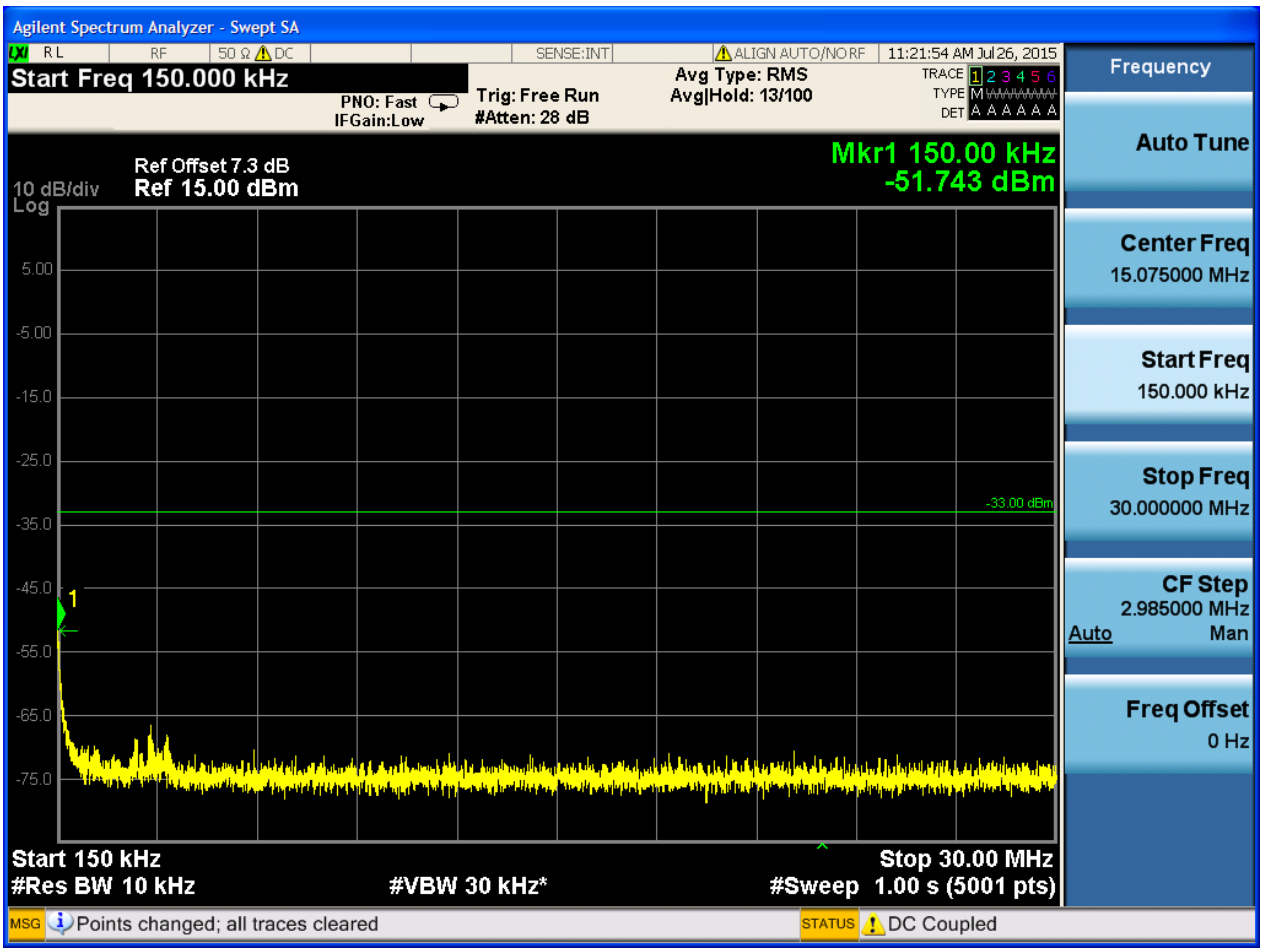

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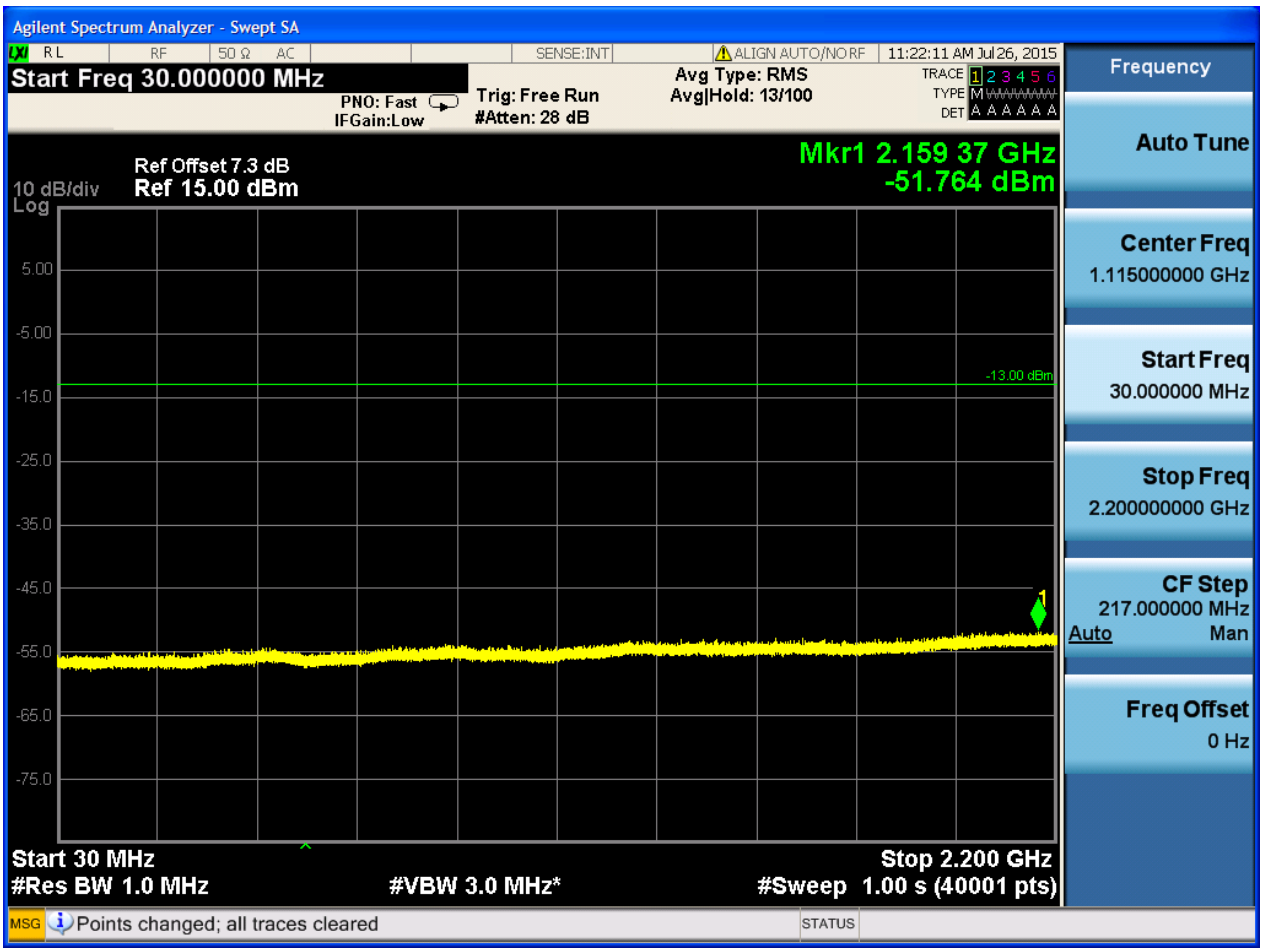

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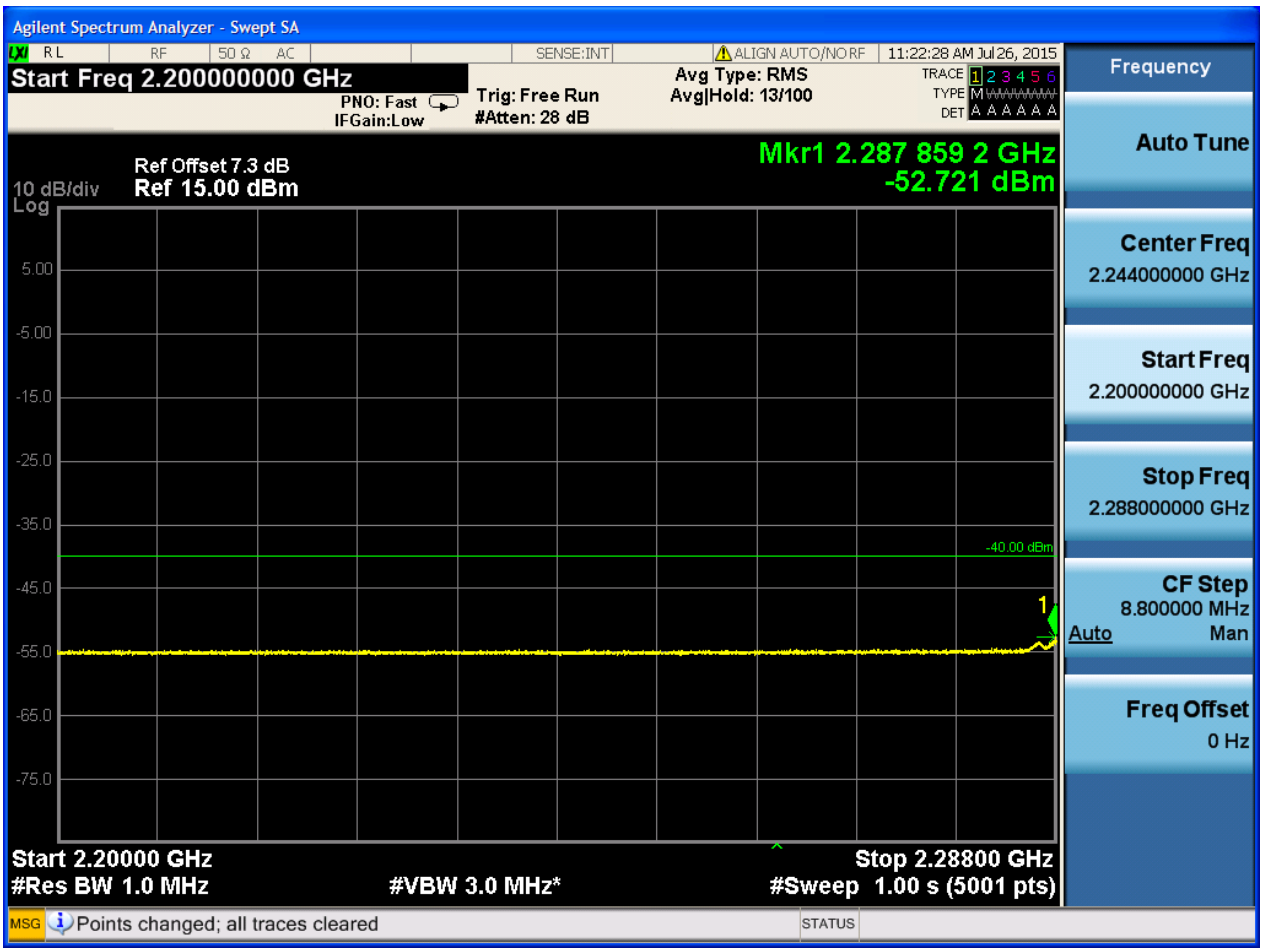
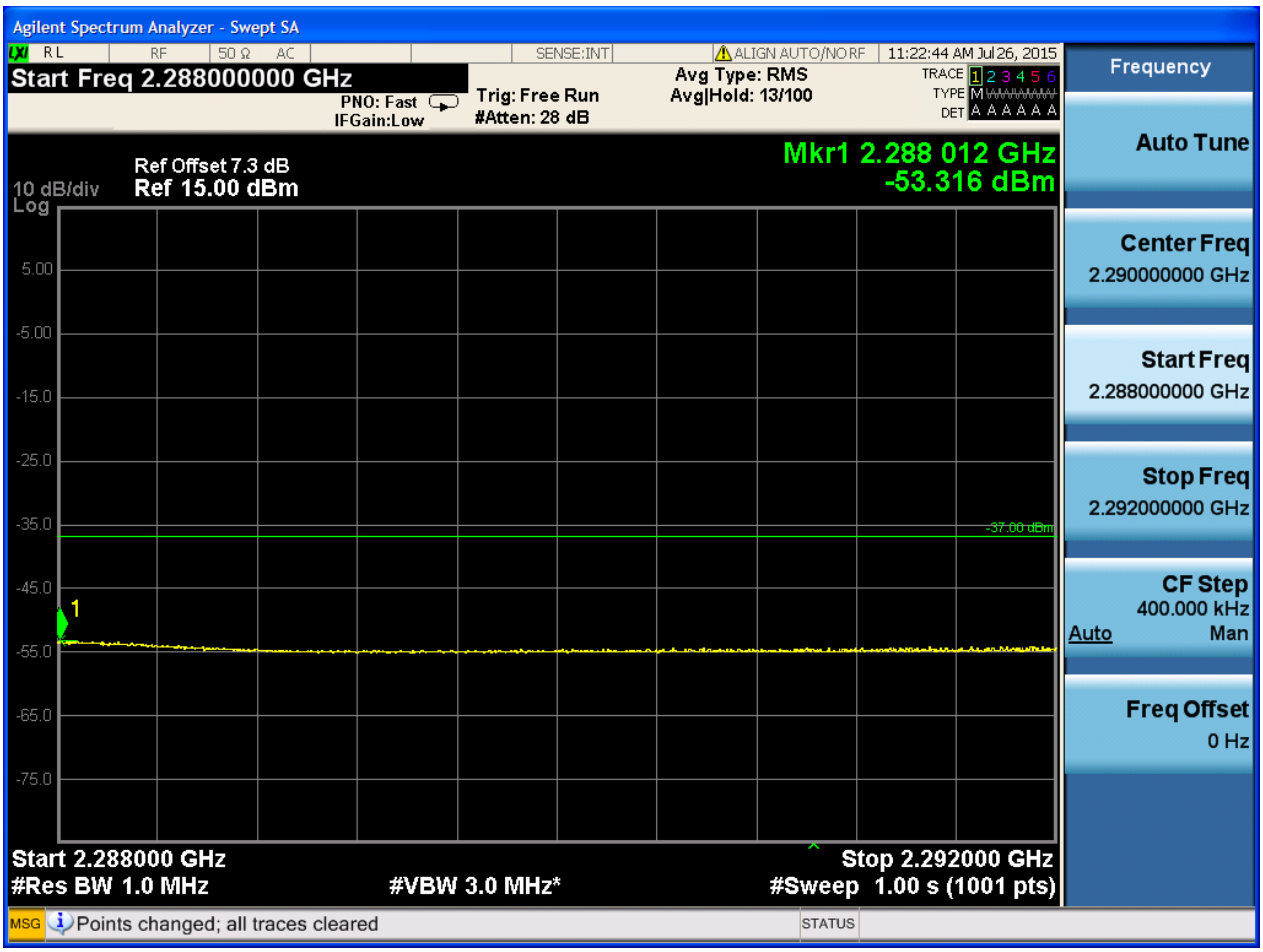

Agilent Spectrum Analyzer - Swept SA
Start Freq 2.200000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: RMS
Avg|Hold: 13/100
11:22:28 AM Jul 26, 2015
Ref Offset 7.3 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.287 859 2 GHz
-52.721 dBm
-40.00 dBm
Start 2.20000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 2.28800 GHz
#Sweep 1.00 s (5001 pts)
Points changed; all traces cleared
Frequency
Auto Tune
Center Freq
2.244000000 GHz
Start Freq
2.200000000 GHz
Stop Freq
2.288000000 GHz
CF Step
8.800000 MHz
Auto
Man
Freq Offset
0 Hz



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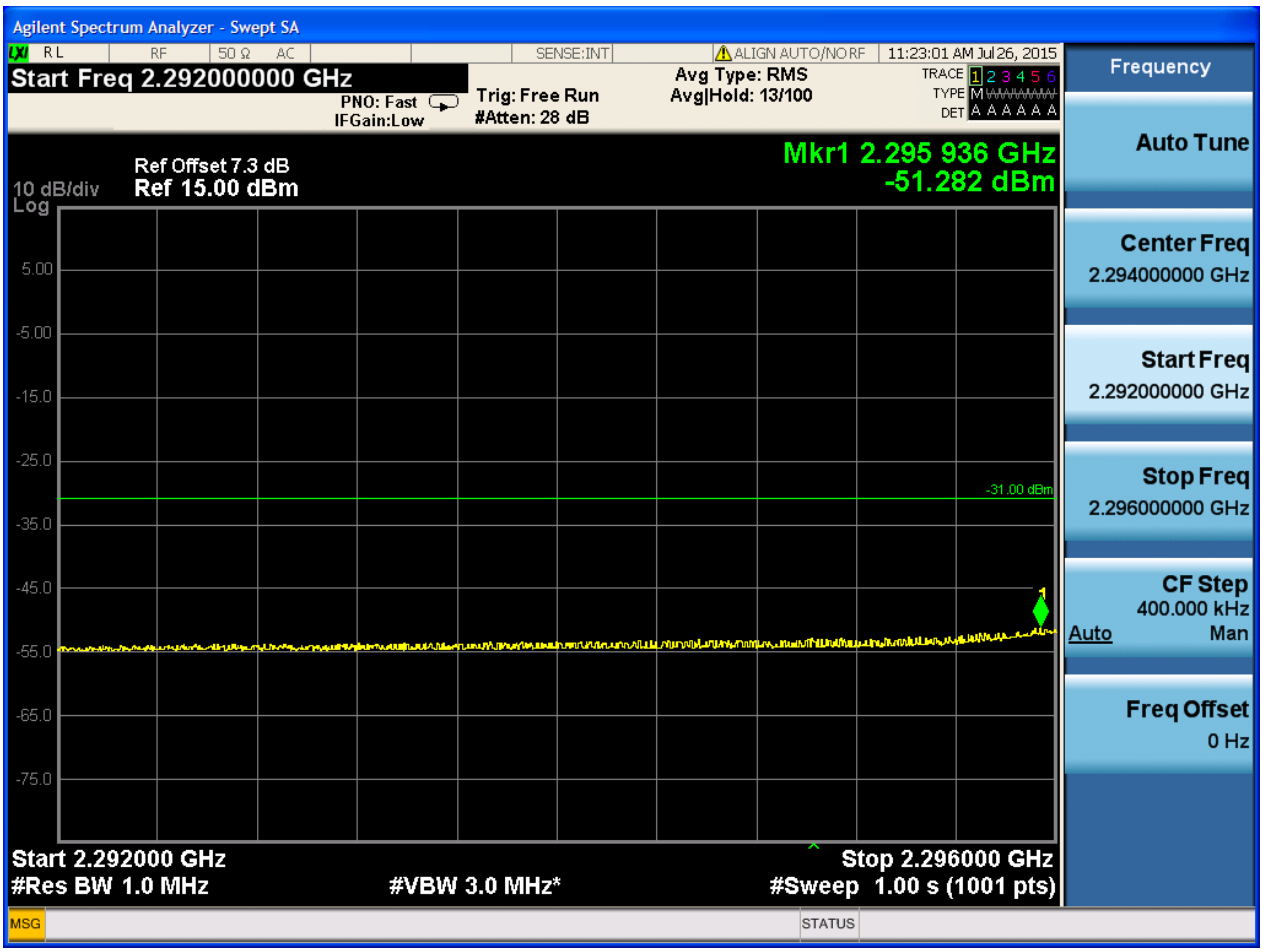

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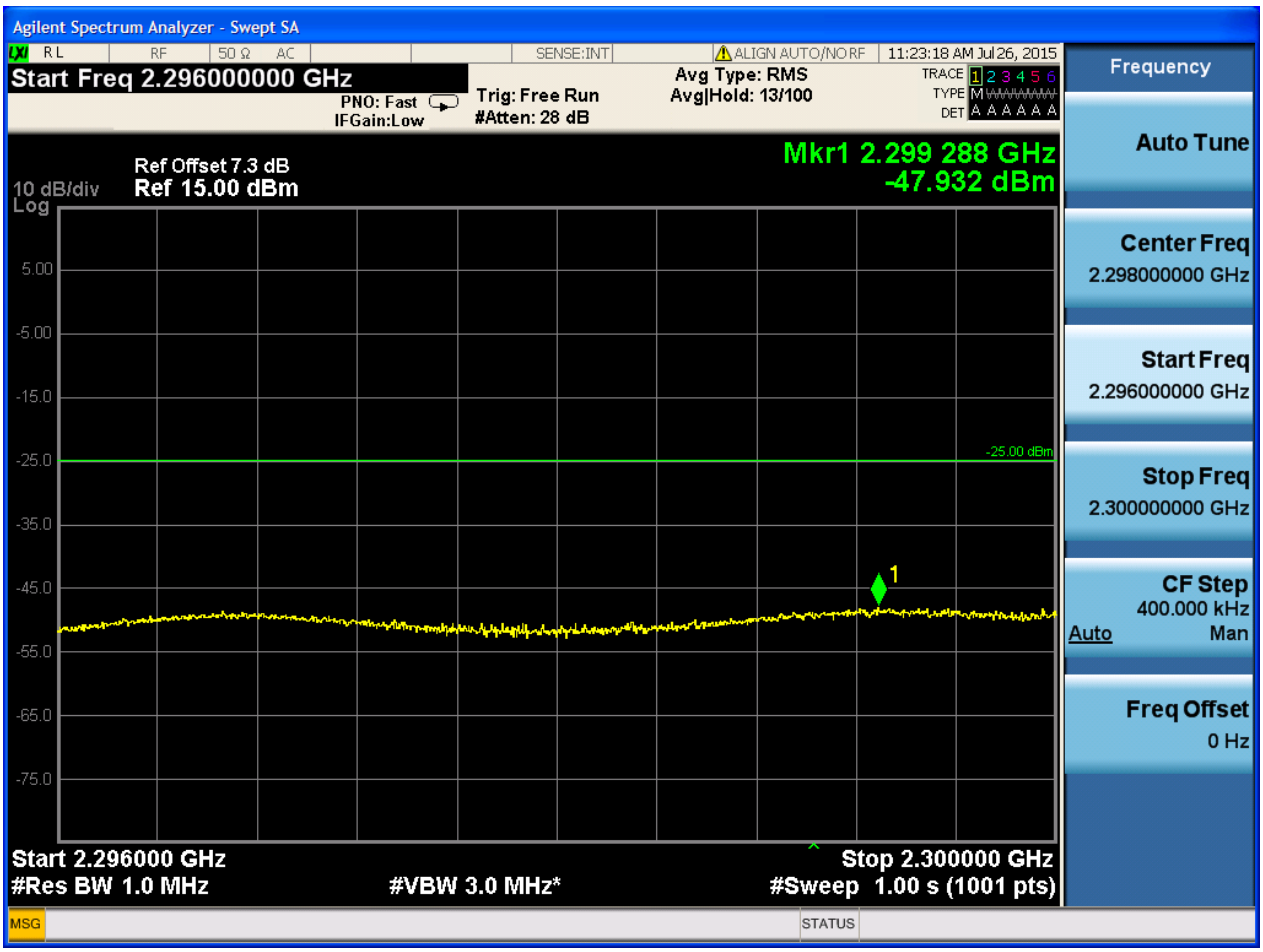

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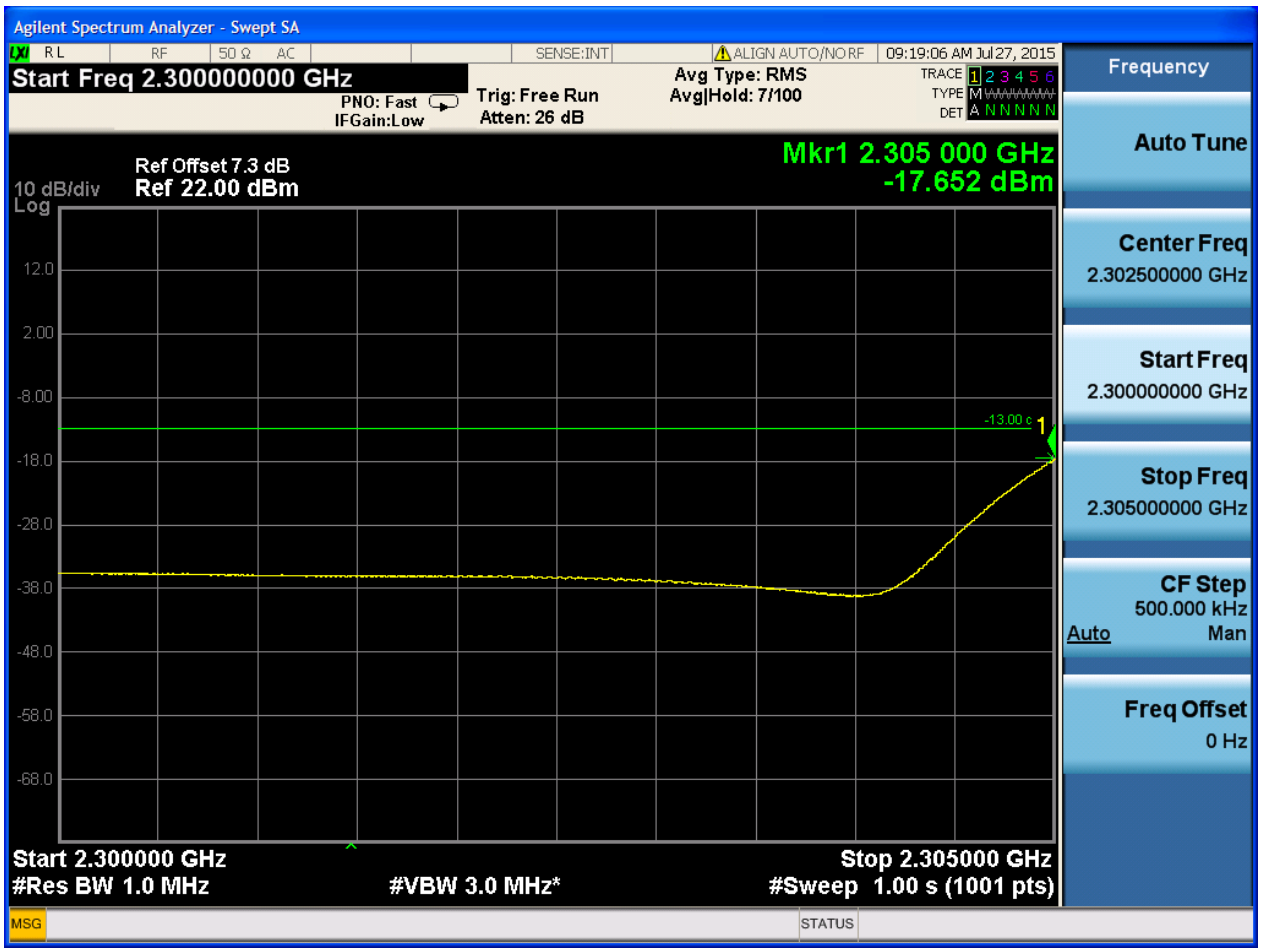

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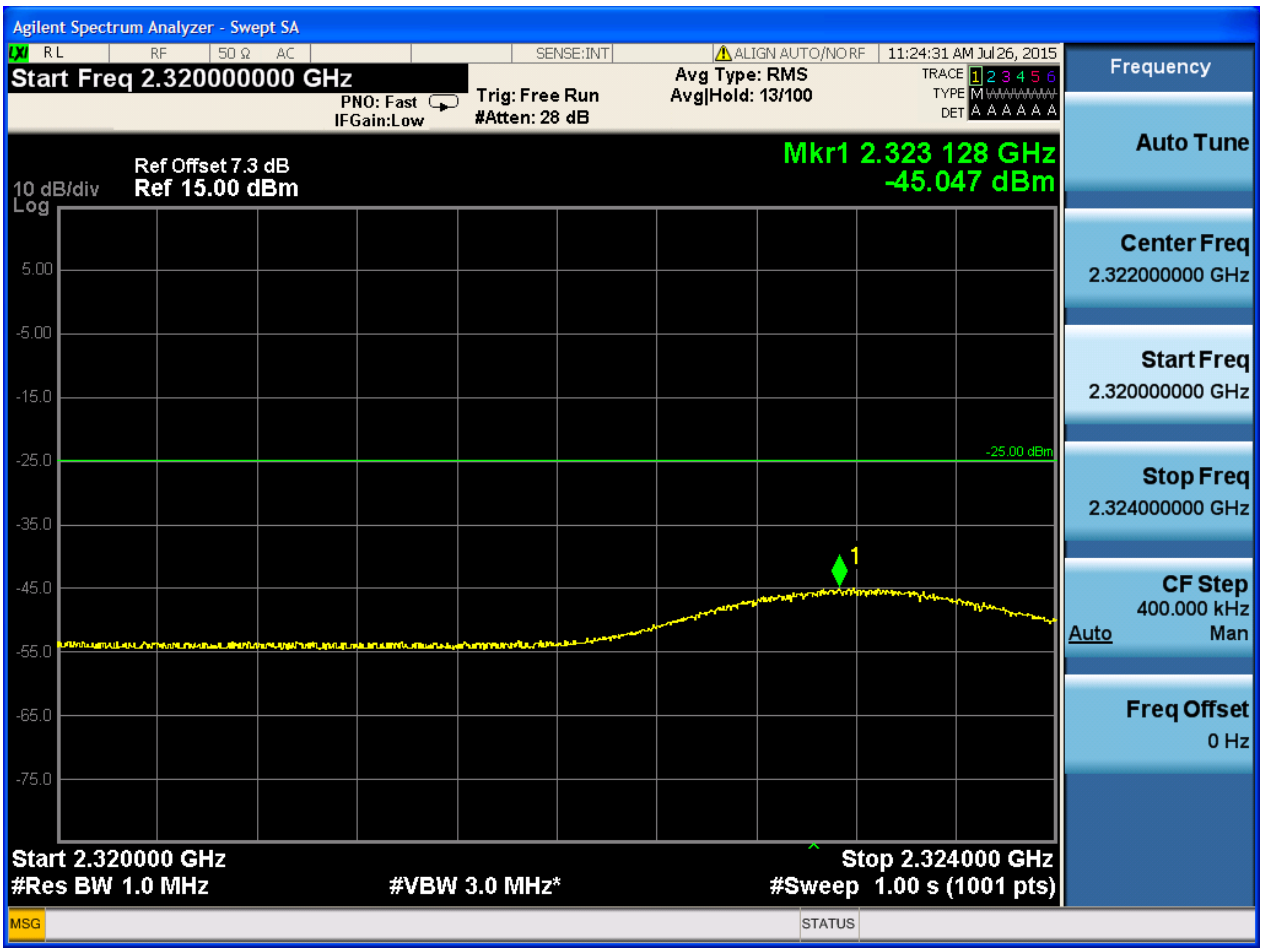
Agilent Spectrum Analyzer - Swept SA
Start Freq 2.320000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: RMS
Avg|Hold: 13/100
11:24:31 AM Jul 26, 2015
Ref Offset 7.3 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.323 128 GHz
-45.047 dBm
-25.00 dBm
Start 2.320000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 2.324000 GHz
#Sweep 1.00 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.322000000 GHz
Start Freq
2.320000000 GHz
Stop Freq
2.324000000 GHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz

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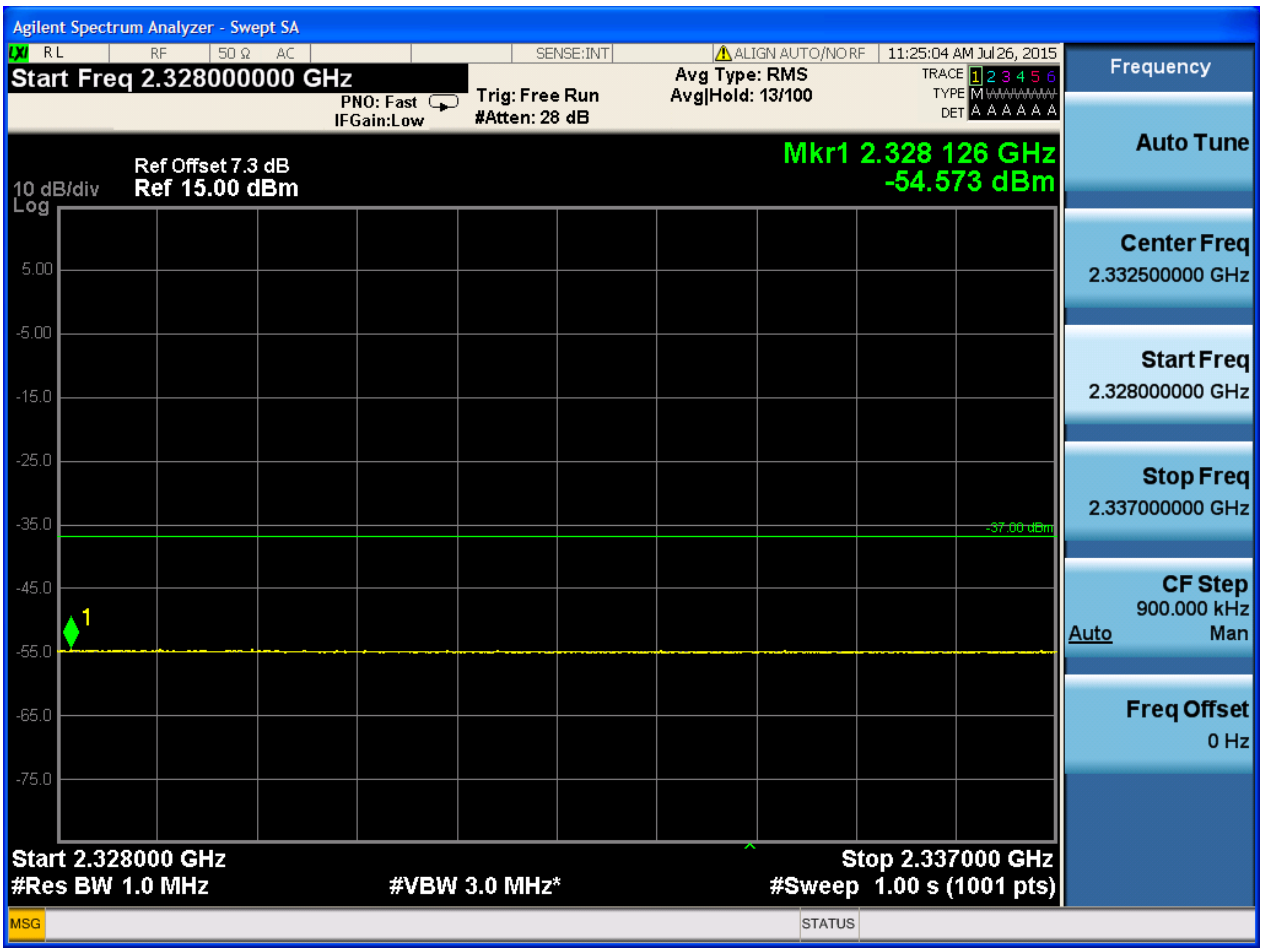

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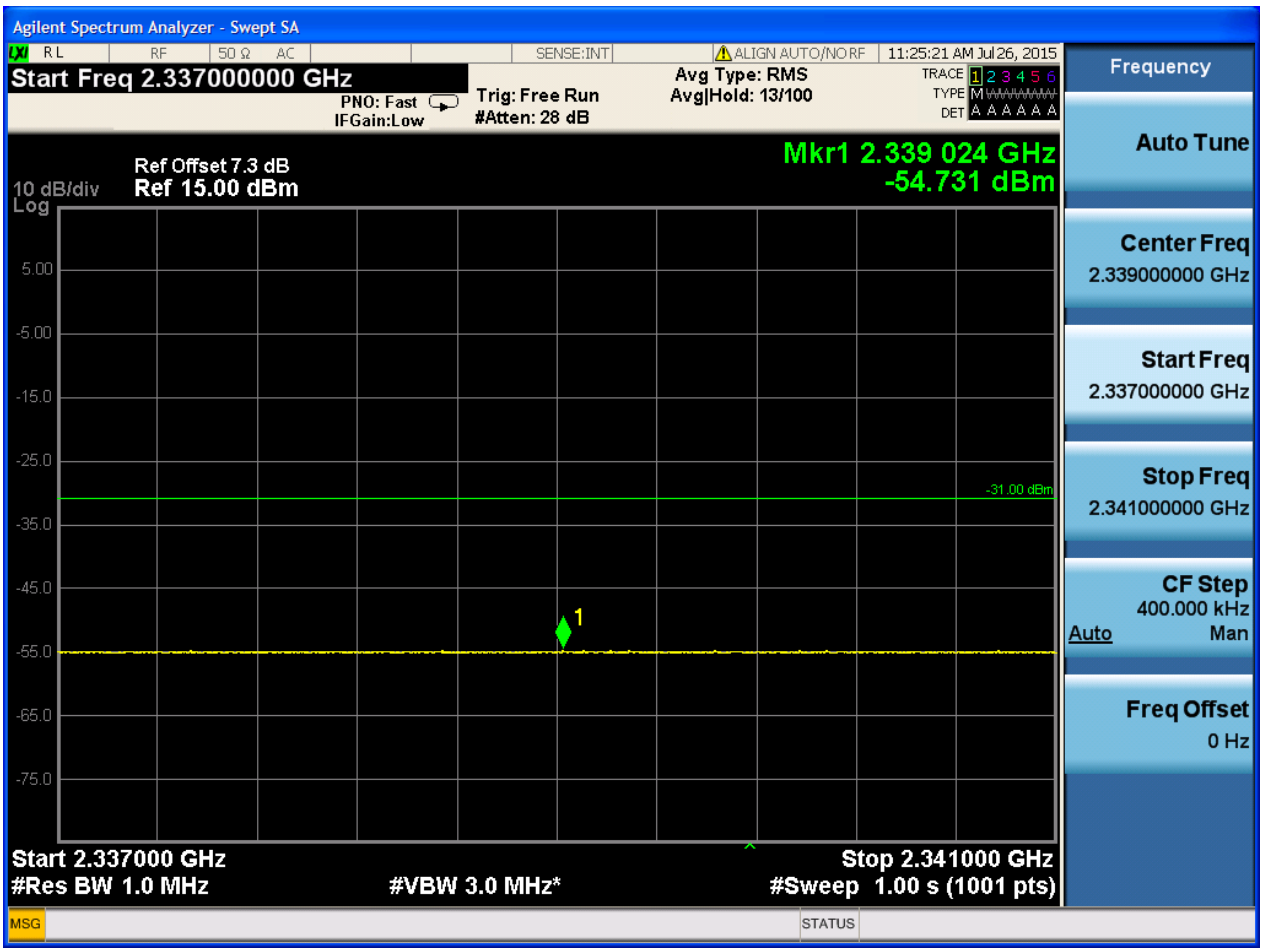

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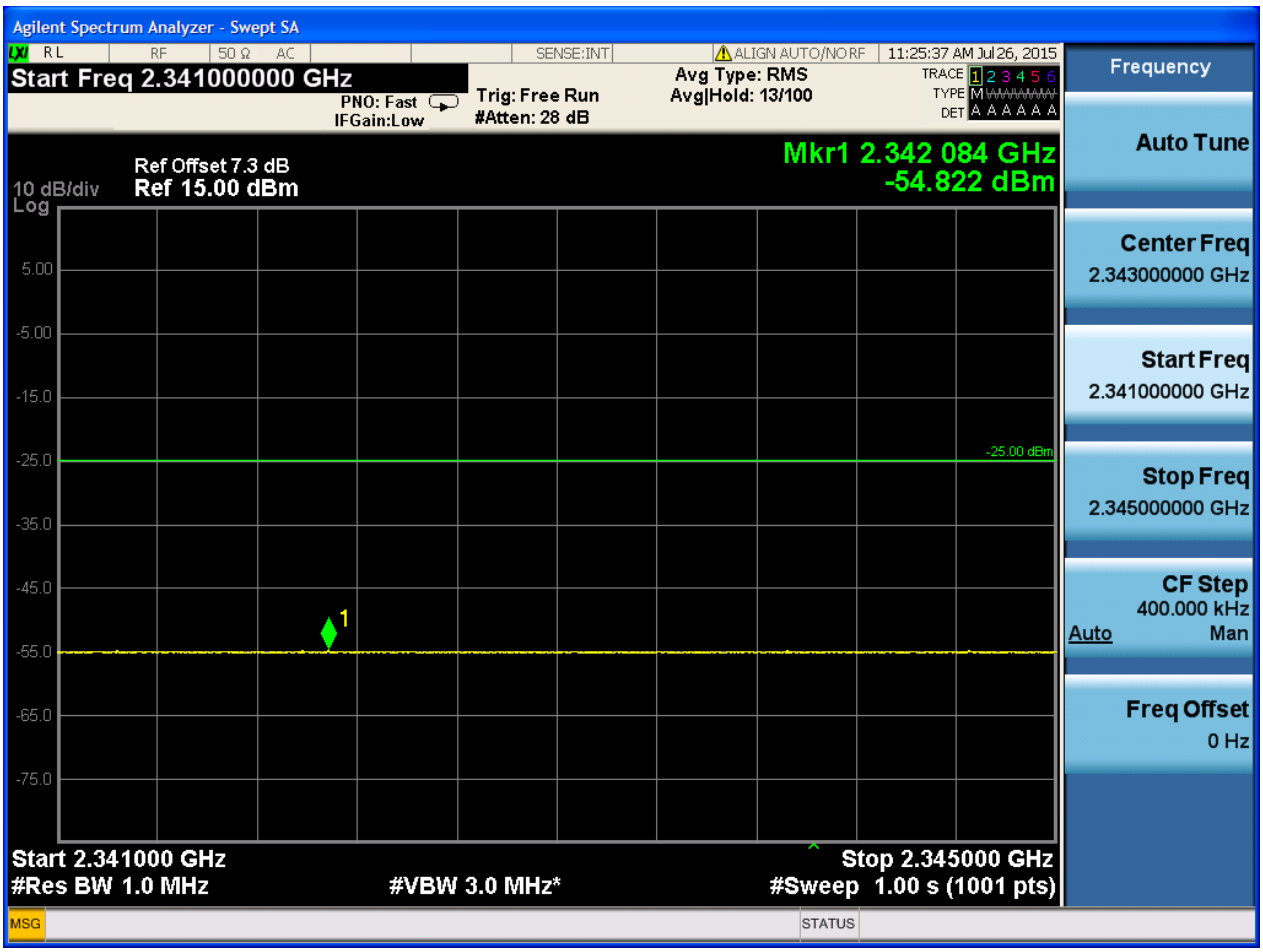

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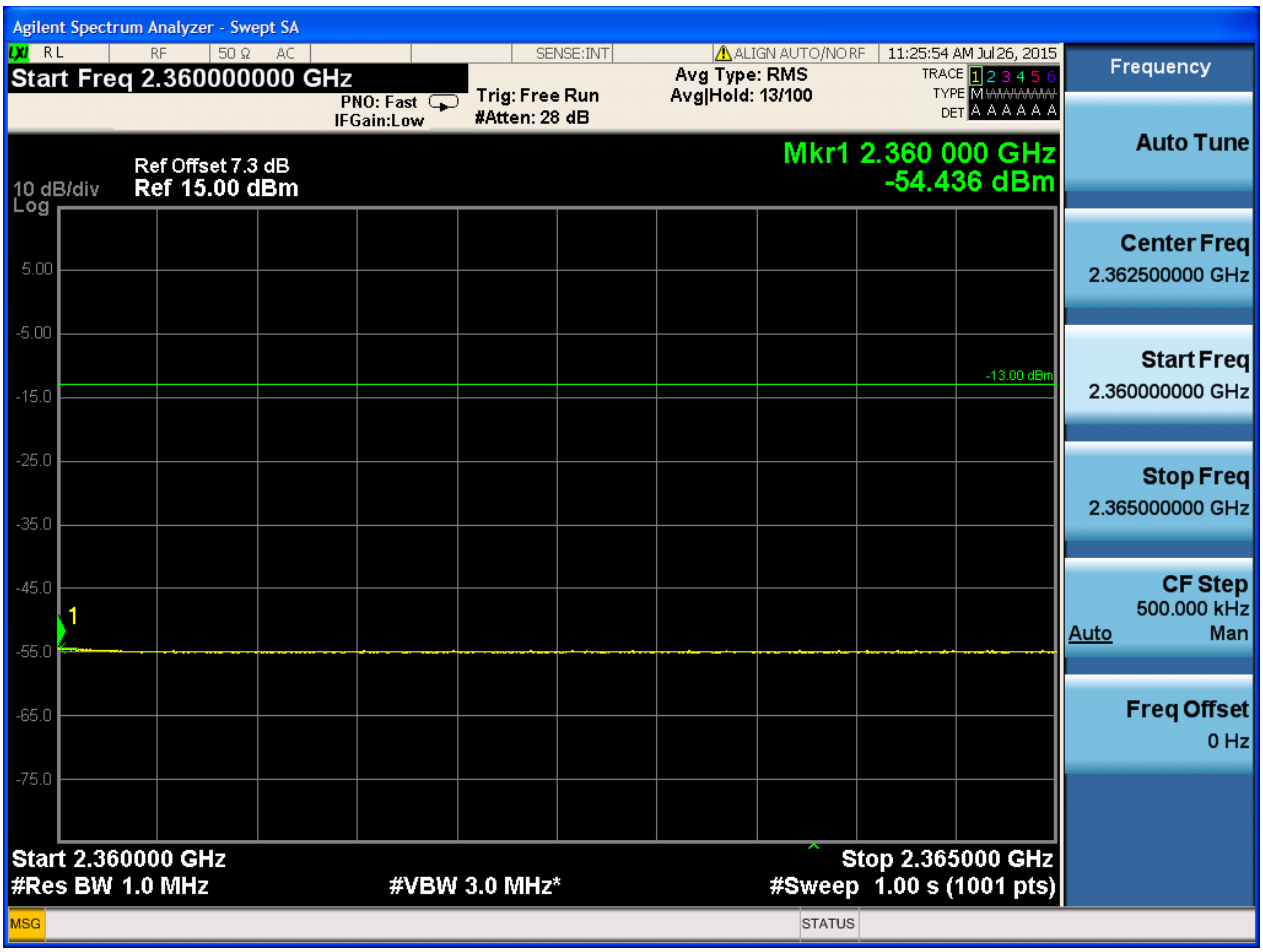
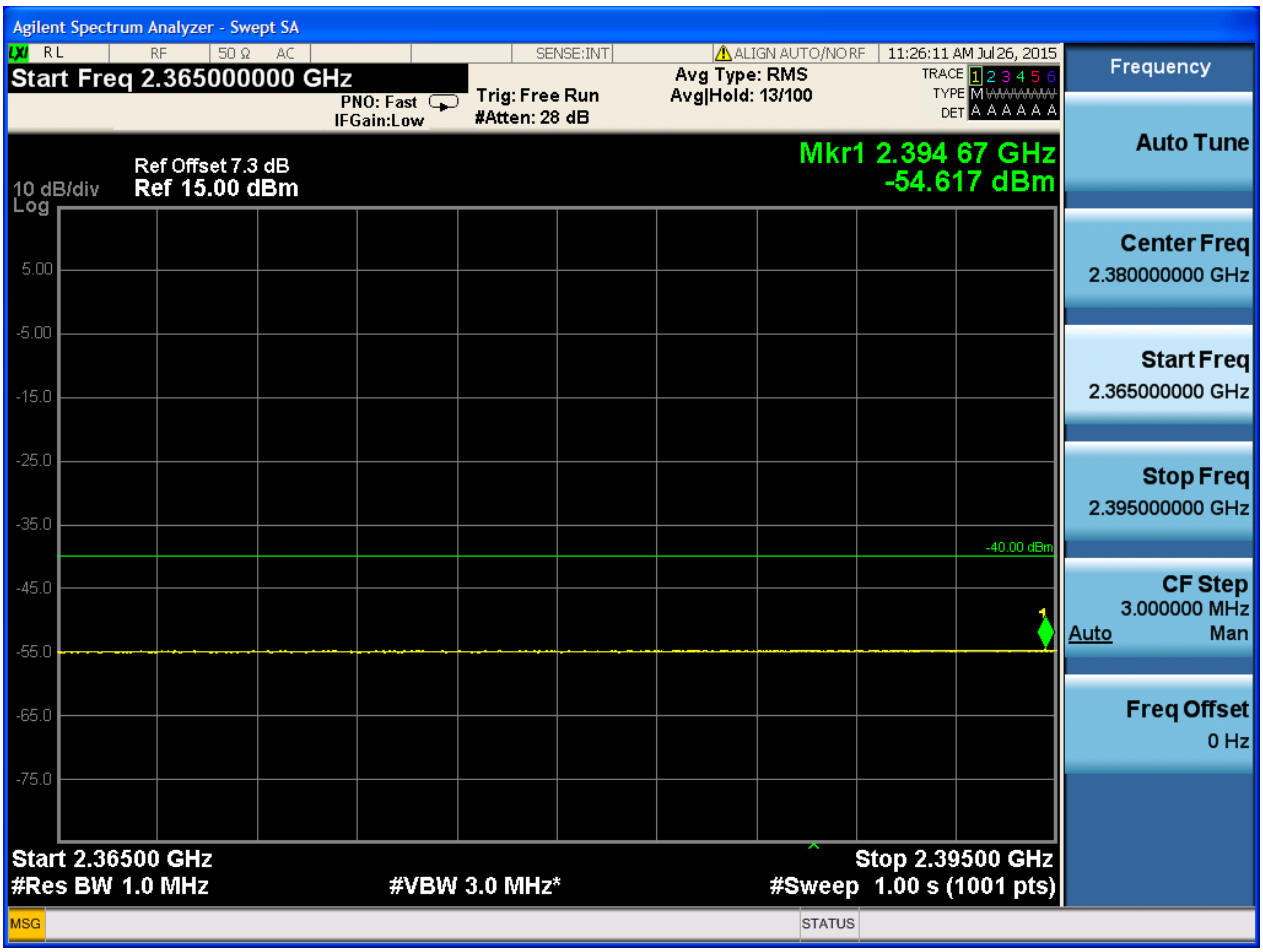

Agilent Spectrum Analyzer - Swept SA
Start Freq 2.360000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: RMS
Avg|Hold: 13/100
11:25:54 AM Jul 26, 2015
Ref Offset 7.3 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.360 000 GHz
-54.436 dBm
-13.00 dBm
Start 2.360000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 2.365000 GHz
#Sweep 1.00 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.362500000 GHz
Start Freq
2.360000000 GHz
Stop Freq
2.365000000 GHz
CF Step
500.000 kHz
Auto
Man
Freq Offset
0 Hz



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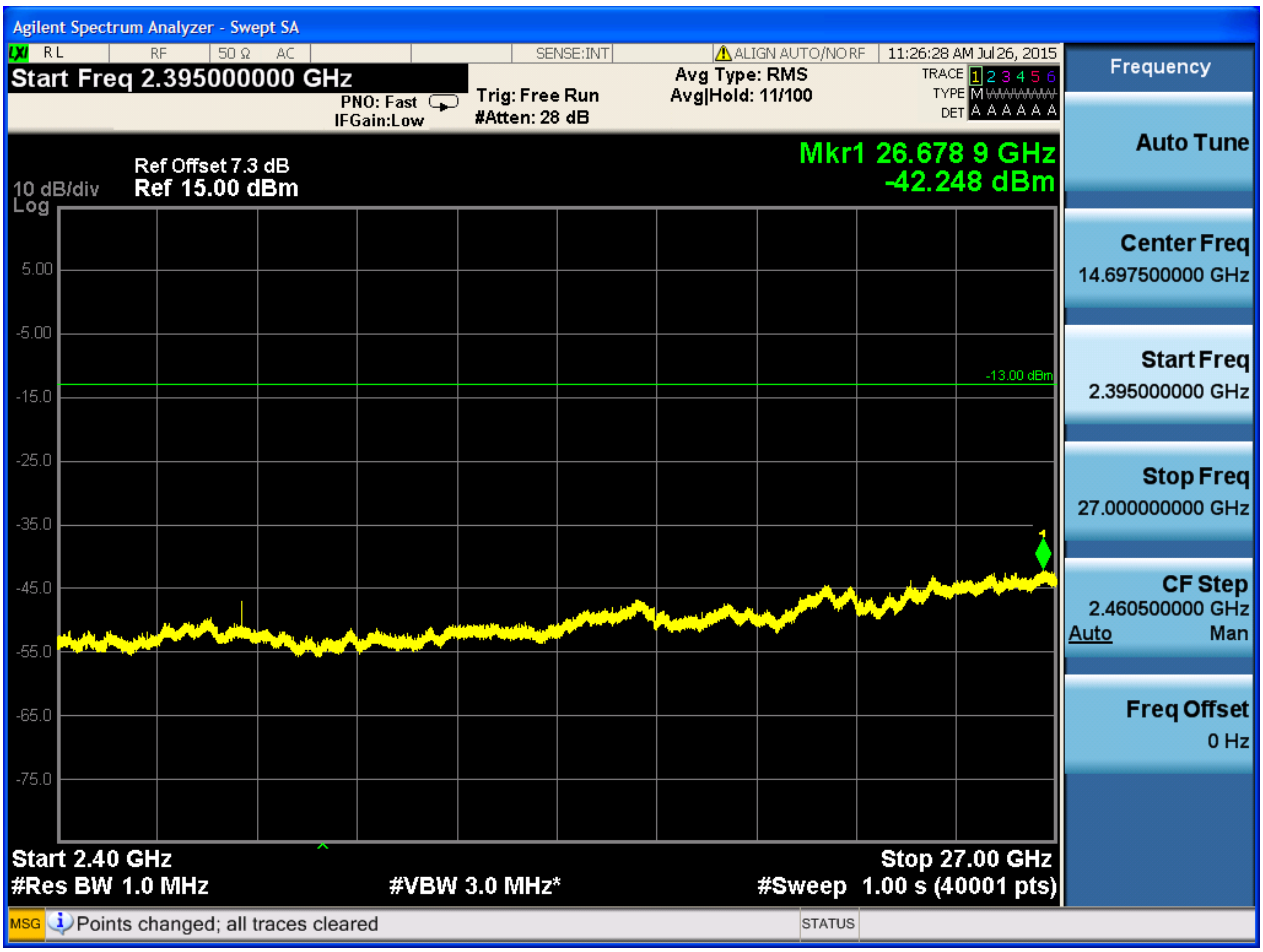

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7Appendix_G: Field Strength of Spurious Radiation

Note:

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

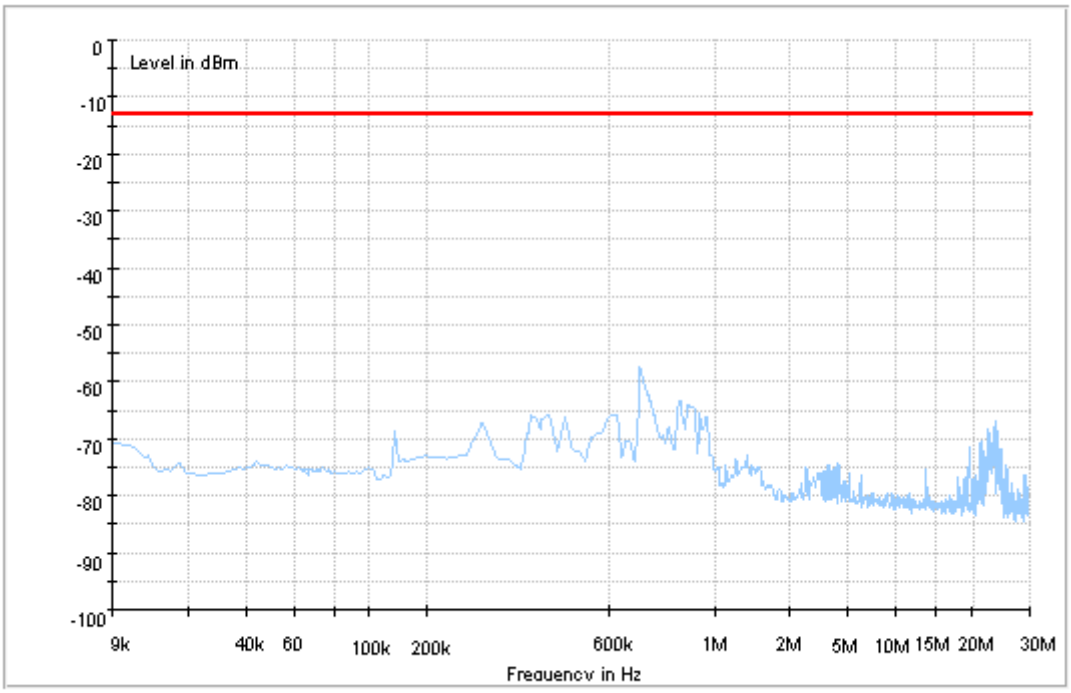
We tested all modes, but the data presented below is the worst case.

Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = BAND40

7.1.1.1 Test Bandwidth = 5



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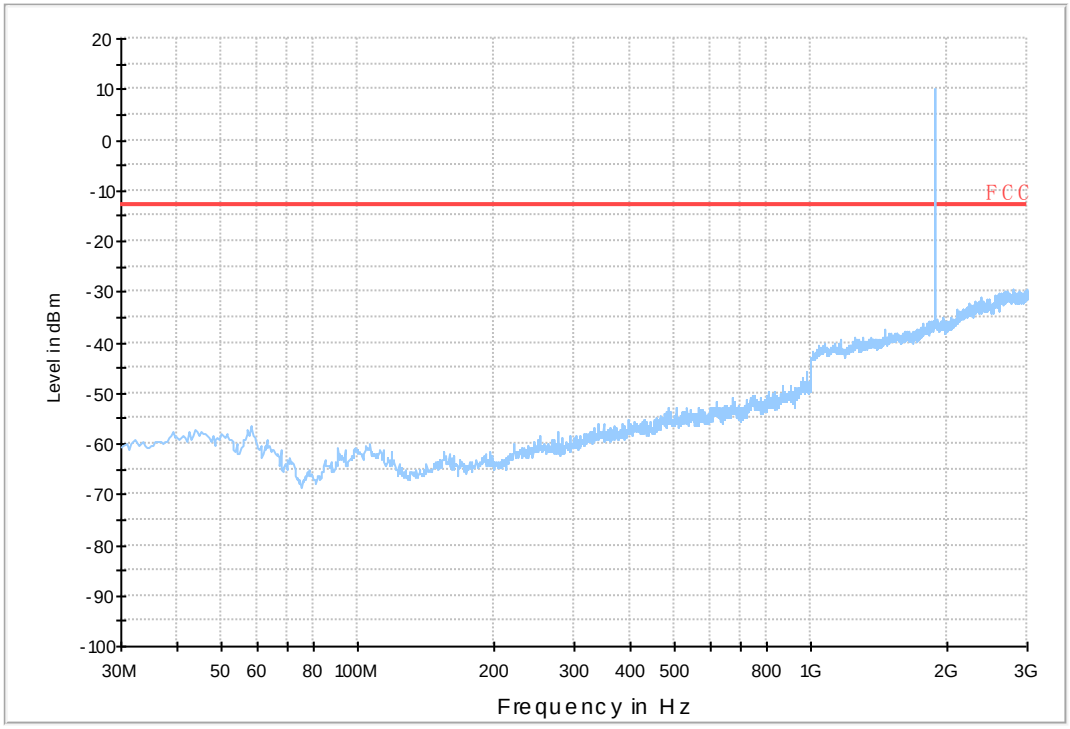
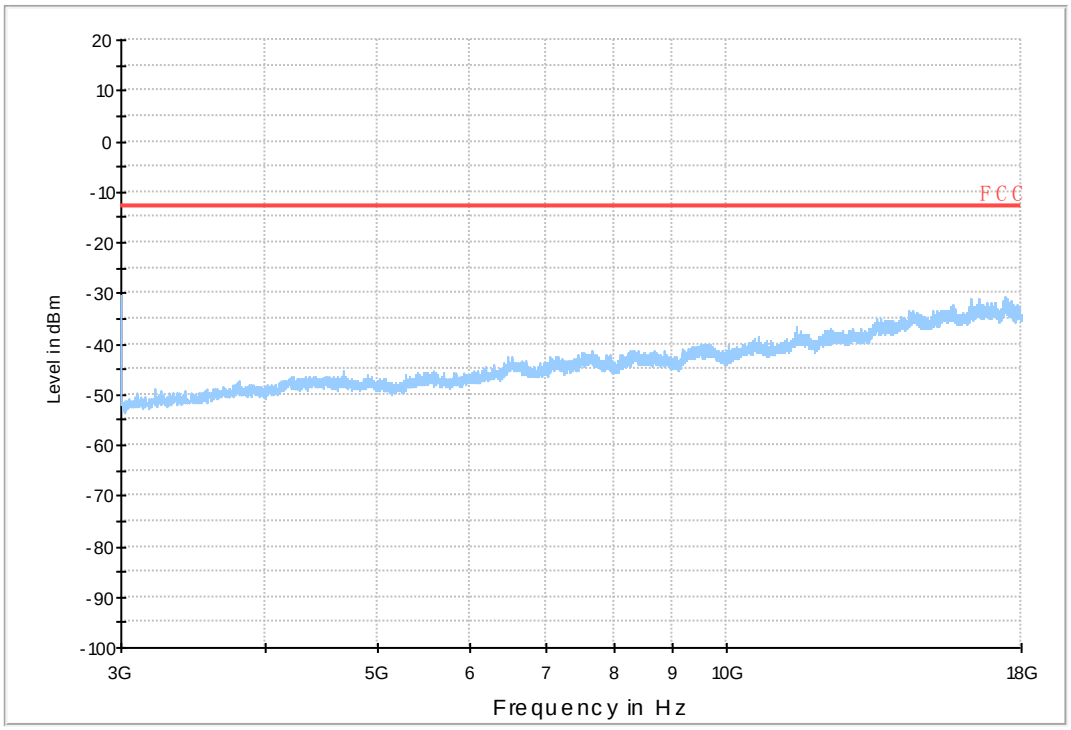
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H



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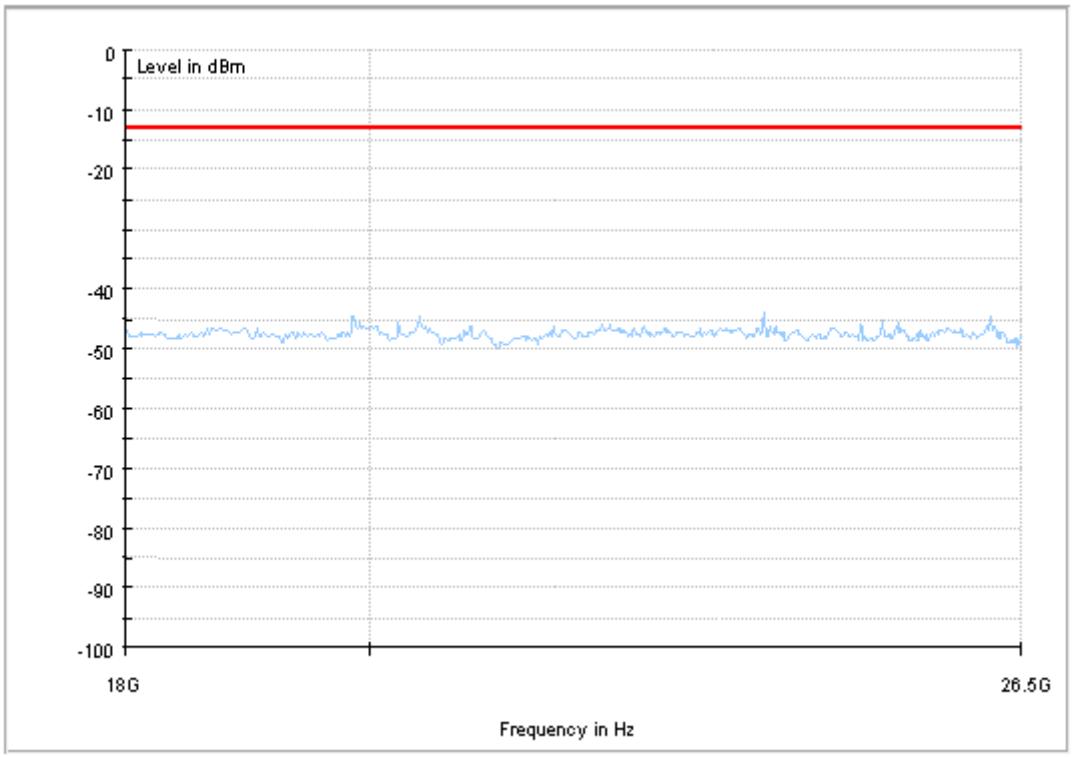

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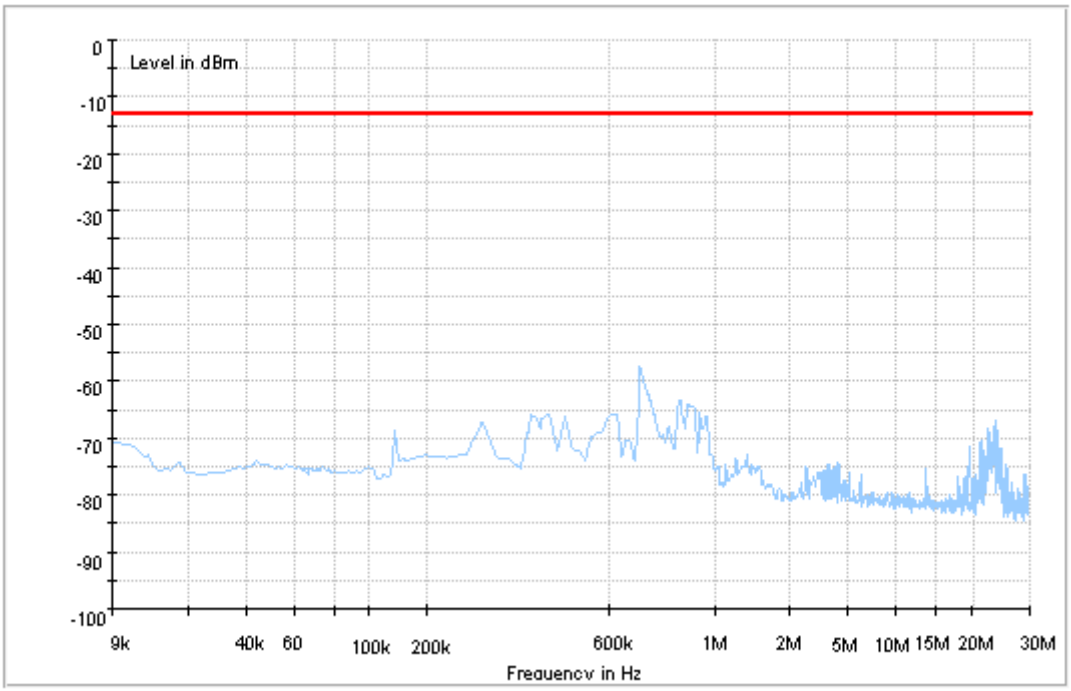
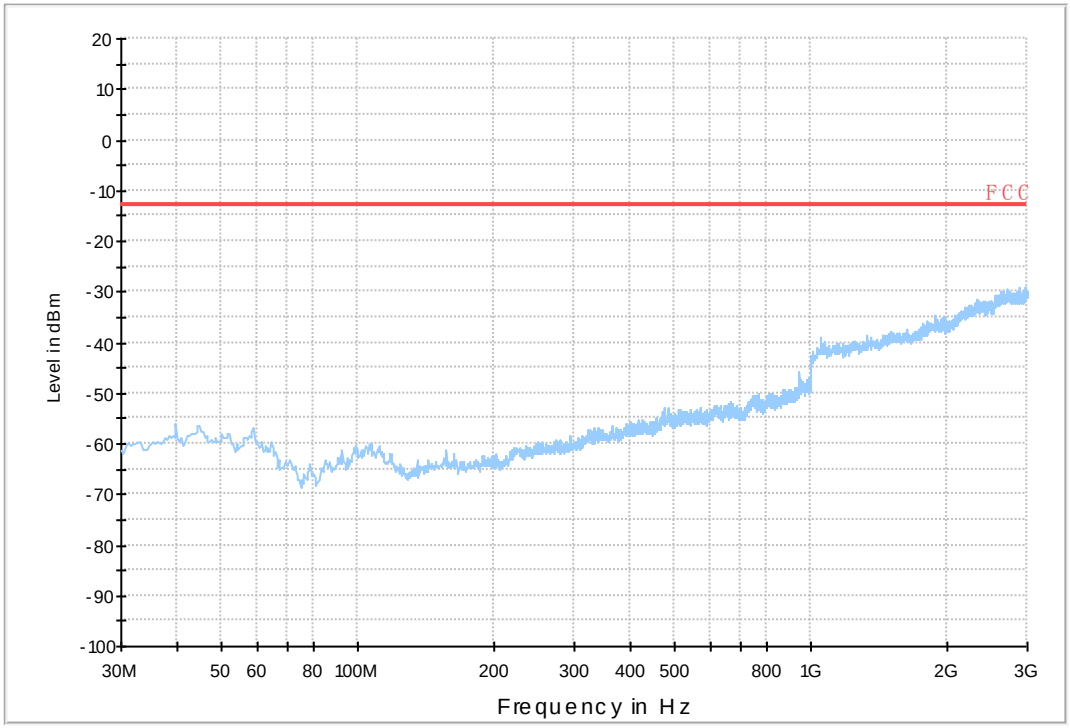
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



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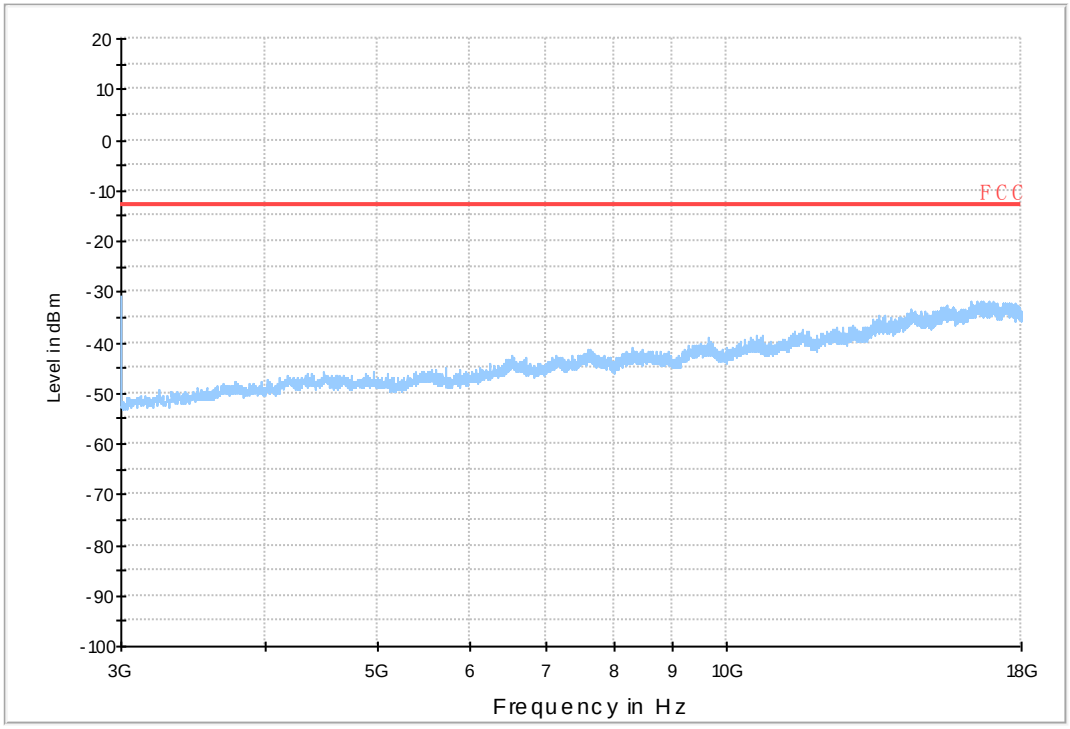
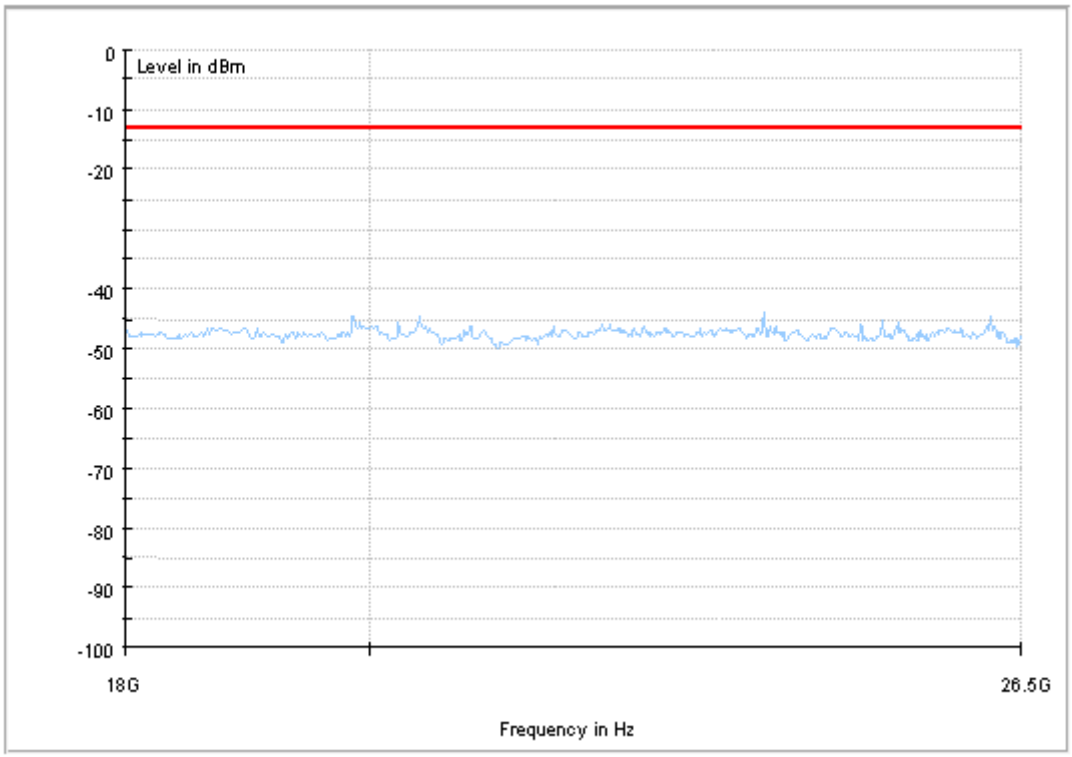
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H





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8Appendix_H: Frequency Stability

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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
BAND30	LTE/TM1	5	LCH	TN	VL	4.76	0.00206	PASS
					VN	5.21	0.00226	PASS
					VH	0.84	0.00036	PASS
			MCH	TN	VL	-3.1	-0.00134	PASS
					VN	-1.07	-0.00046	PASS
					VH	-4.08	-0.00177	PASS
			HCH	TN	VL	3.32	0.00144	PASS
					VN	2.45	0.00106	PASS
					VH	1.97	0.00085	PASS
		10	LCH/MCH /HCH	TN	VL	-3.76	-0.00163	PASS
					VN	0.17	0.00007	PASS
					VH	-1.7	-0.00074	PASS
	LTE/TM2	5	LCH	TN	VL	4.98	0.00216	PASS
					VN	4.18	0.00181	PASS
					VH	2.66	0.00115	PASS
			MCH	TN	VL	-2.05	-0.00089	PASS
					VN	-0.77	-0.00033	PASS
					VH	-1.27	-0.00055	PASS
			HCH	TN	VL	0.93	0.0004	PASS
					VN	-0.3	-0.00013	PASS
					VH	2.78	0.0012	PASS
		10	LCH/MCH /HCH	TN	VL	0.03	0.00001	PASS
					VN	-1.95	-0.00084	PASS
					VH	-4.11	-0.00178	PASS

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8.1.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND30	LTE/TM1	5	LCH	VN	-30	9.6	0.00416	PASS
					-20	6.11	0.00265	PASS
					-10	7.51	0.00325	PASS
					0	-0.07	-0.00003	PASS
					10	4.95	0.00215	PASS
					20	4.36	0.00189	PASS
					30	5.95	0.00258	PASS
					40	2.39	0.00104	PASS
					50	8.34	0.00361	PASS
			MCH	VN	-30	5.49	0.00238	PASS
					-20	7.45	0.00323	PASS
					-10	9.31	0.00403	PASS
					0	-1.9	-0.00082	PASS
					10	12.47	0.0054	PASS
					20	4.08	0.00177	PASS
					30	8.73	0.00378	PASS
					40	6.18	0.00268	PASS
					50	7.75	0.00335	PASS
			HCH	VN	-30	5.52	0.00239	PASS
					-20	-5.39	-0.00233	PASS
					-10	3.81	0.00165	PASS
					0	4.56	0.00197	PASS
					10	9.16	0.00396	PASS
					20	3.13	0.00135	PASS
					30	6.28	0.00272	PASS
					40	3.68	0.00159	PASS
					50	5.14	0.00222	PASS
		10	LCH/MCH /HCH	VN	-30	6.28	0.00272	PASS
					-20	6.49	0.00281	PASS
					-10	5.64	0.00244	PASS
					0	4.96	0.00215	PASS
					10	10.99	0.00476	PASS
					20	6.74	0.00292	PASS
					30	7.52	0.00326	PASS
					40	8.68	0.00376	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					50	10.67	0.00462	PASS
	LTE/TM2	5	LCH	VN	-30	4.08	0.00177	PASS
					-20	7.68	0.00333	PASS
					-10	5.99	0.0026	PASS
					0	7.25	0.00314	PASS
					10	5.14	0.00223	PASS
					20	4.94	0.00214	PASS
					30	2.63	0.00114	PASS
					40	6.04	0.00262	PASS
					50	-0.9	-0.00039	PASS
			MCH	VN	-30	7.75	0.00335	PASS
					-20	7.44	0.00322	PASS
					-10	10.27	0.00445	PASS
					0	1.56	0.00068	PASS
					10	5.91	0.00256	PASS
					20	9.87	0.00427	PASS
					30	1.76	0.00076	PASS
					40	7.7	0.00333	PASS
					50	9.18	0.00397	PASS
			HCH	VN	-30	9.37	0.00405	PASS
					-20	6.75	0.00292	PASS
					-10	4.51	0.00195	PASS
					0	12.83	0.00555	PASS
					10	5.16	0.00223	PASS
					20	6.19	0.00268	PASS
					30	7.18	0.0031	PASS
					40	8.25	0.00357	PASS
					50	6.01	0.0026	PASS
		10	LCH/MCH /HCH	VN	-30	5.56	0.00241	PASS
					-20	5.29	0.00229	PASS
					-10	6.65	0.00288	PASS
					0	4.48	0.00194	PASS
					10	5.94	0.00257	PASS
					20	5.29	0.00229	PASS
					30	8.41	0.00364	PASS
					40	8.84	0.00383	PASS
					50	8.55	0.0037	PASS

END

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