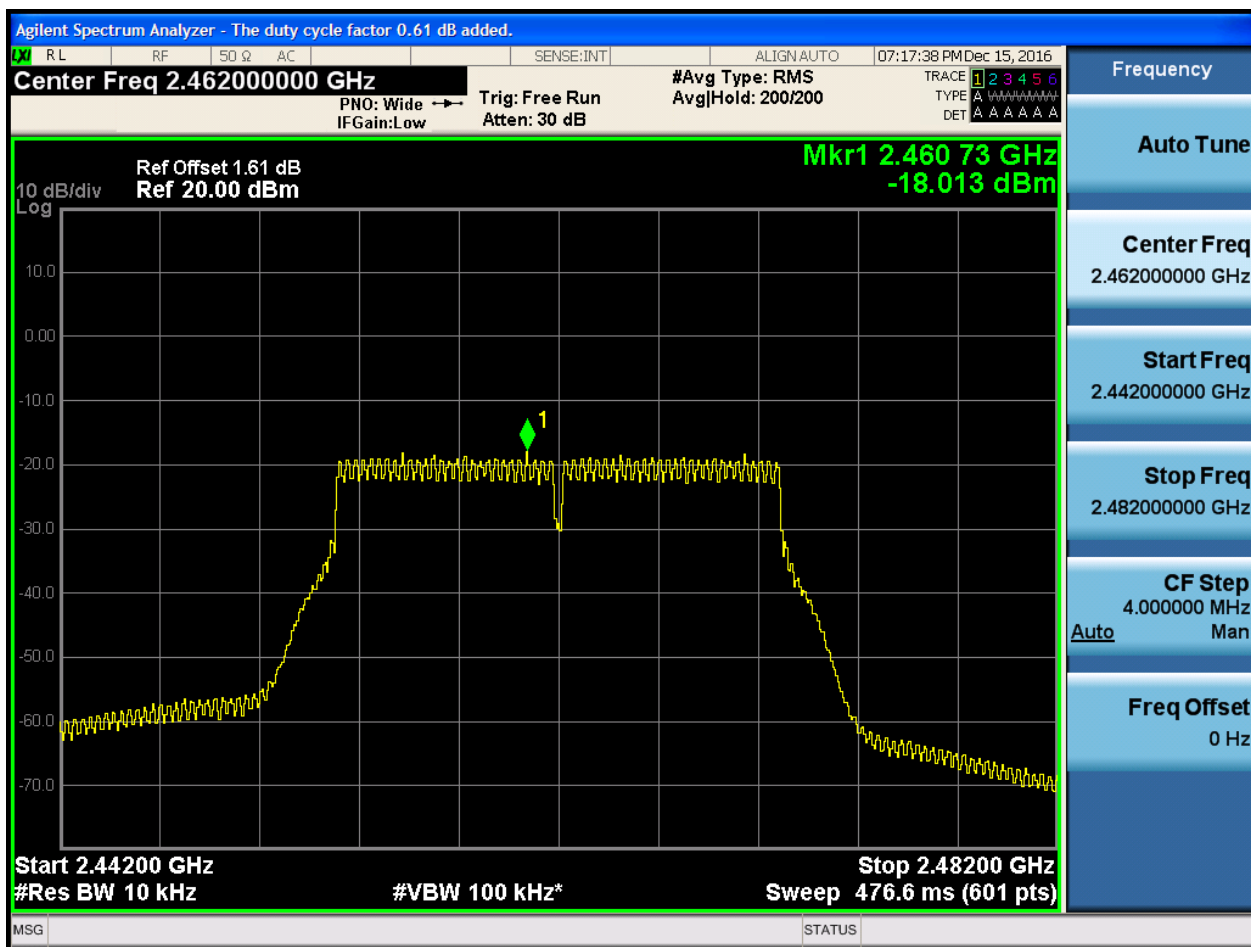


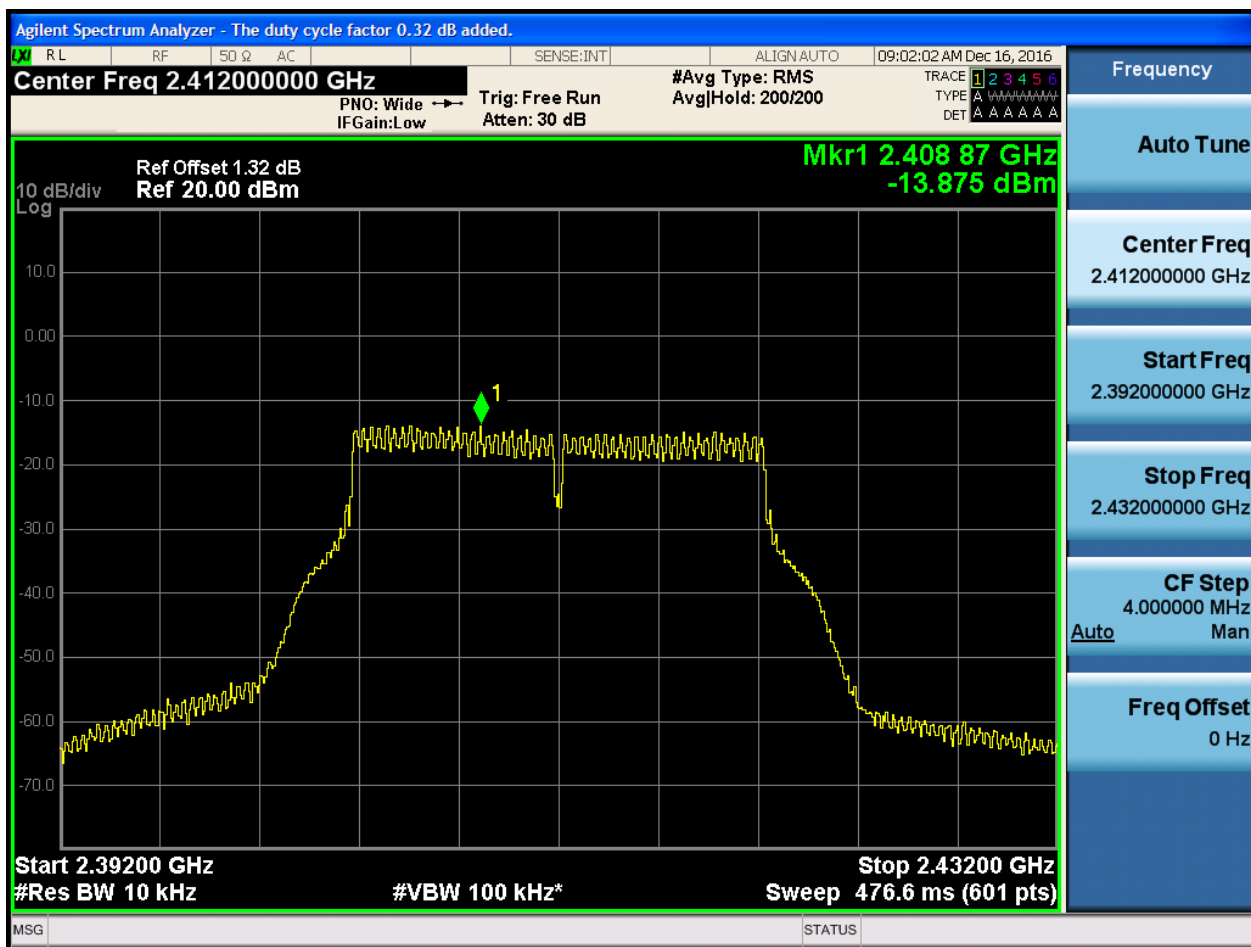


2.24 11N20m_H@Ant 2



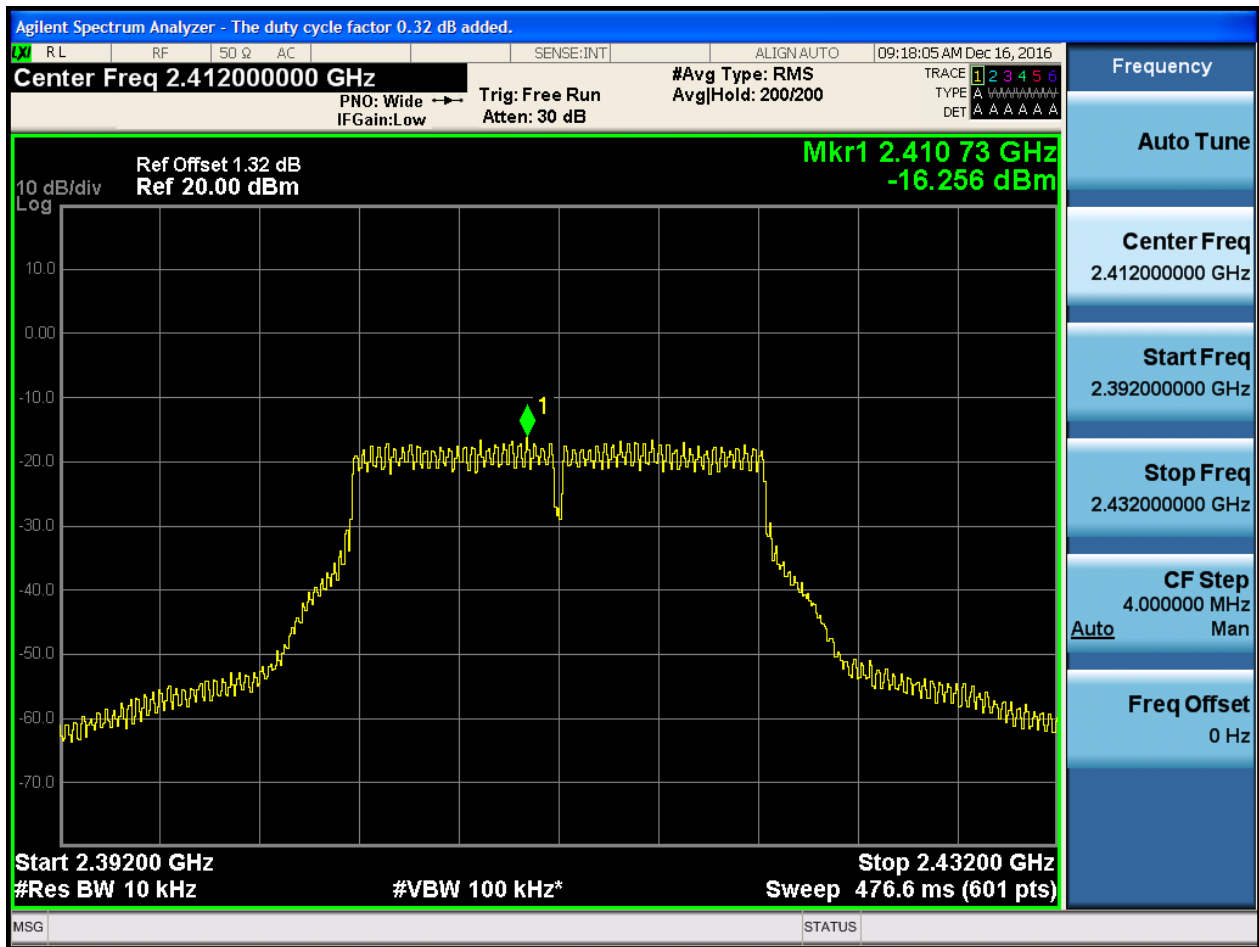


2.25 11G CDD_L@Ant 1



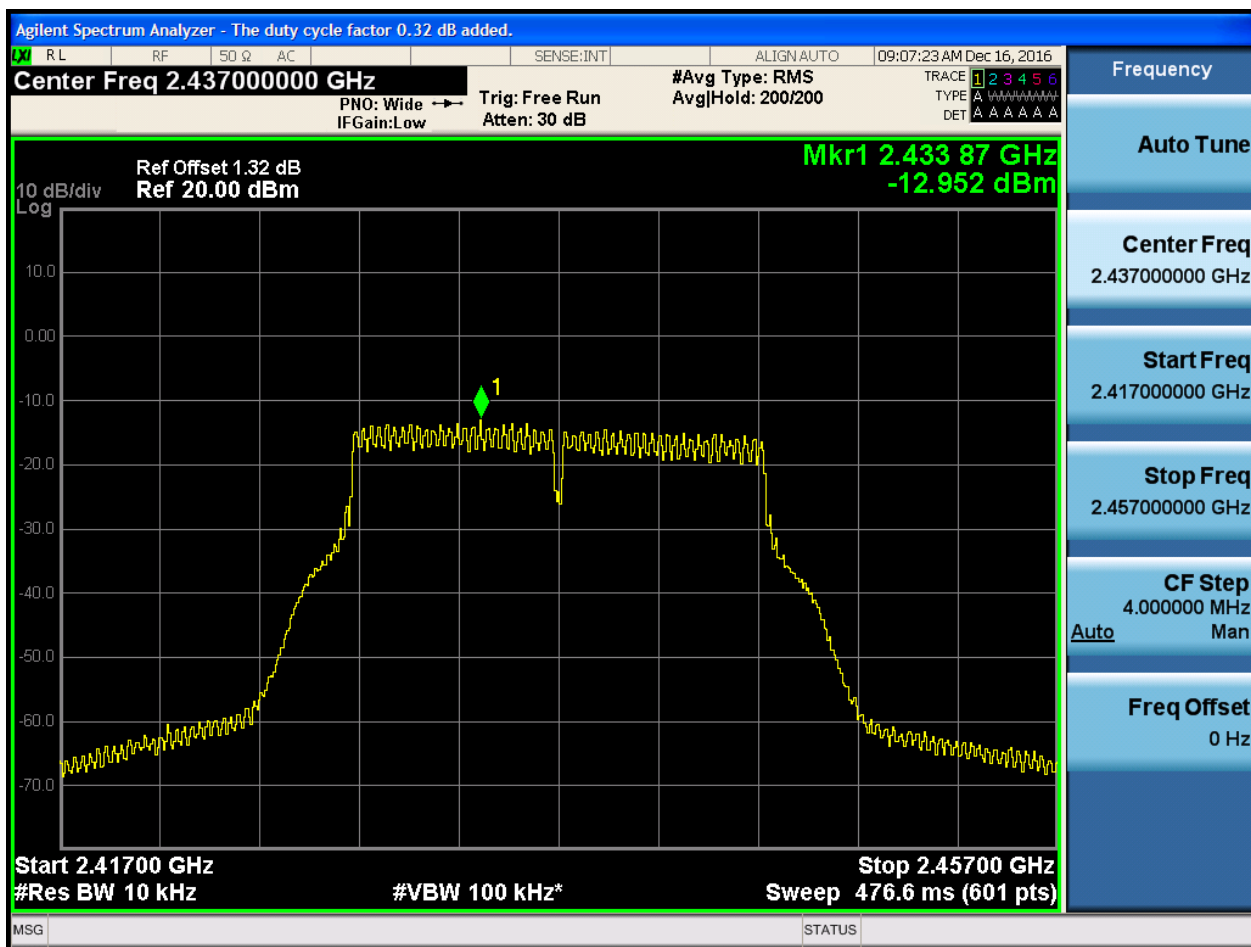


2.26 11G CDD_L@Ant 2



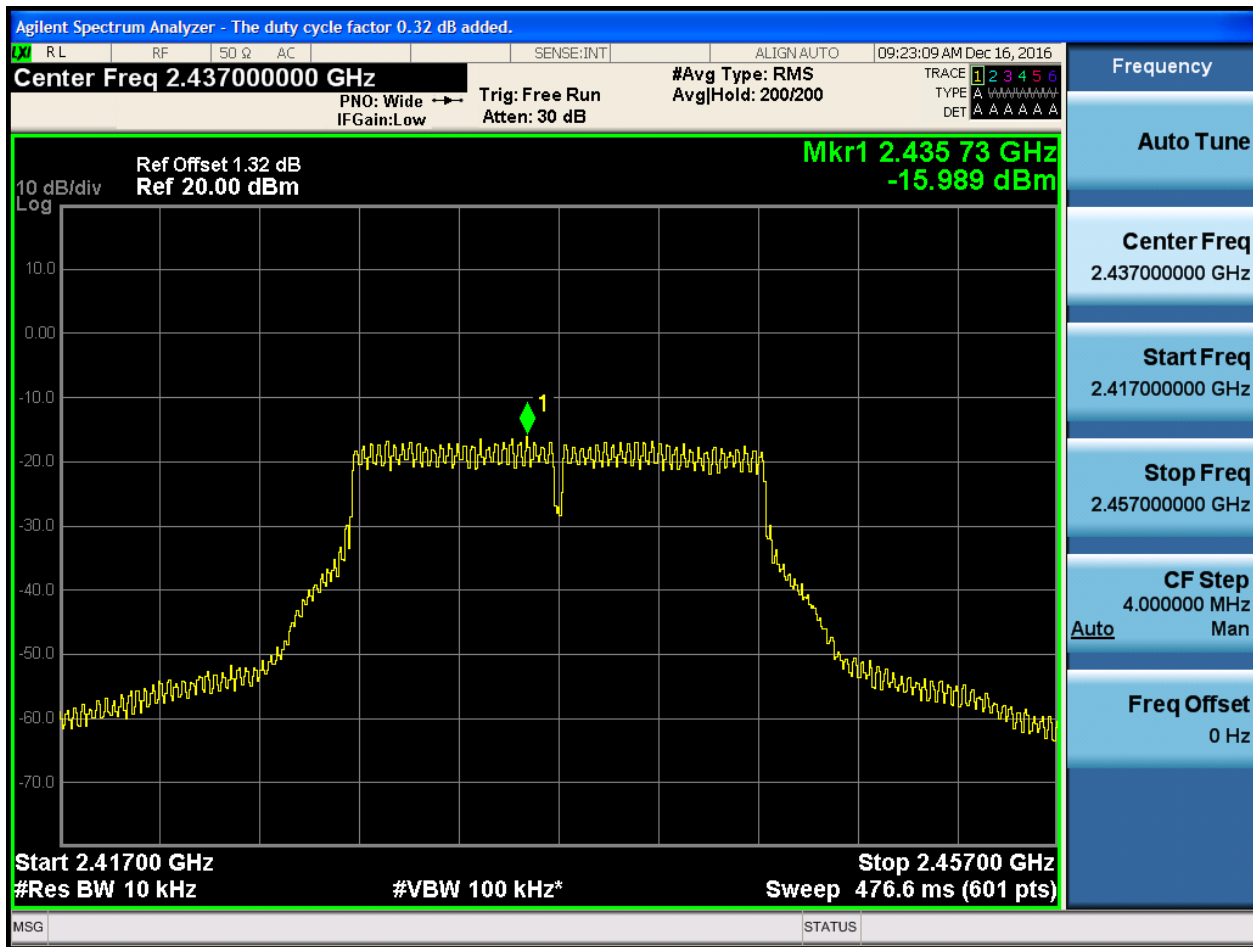


2.27 11G CDD_M@Ant 1



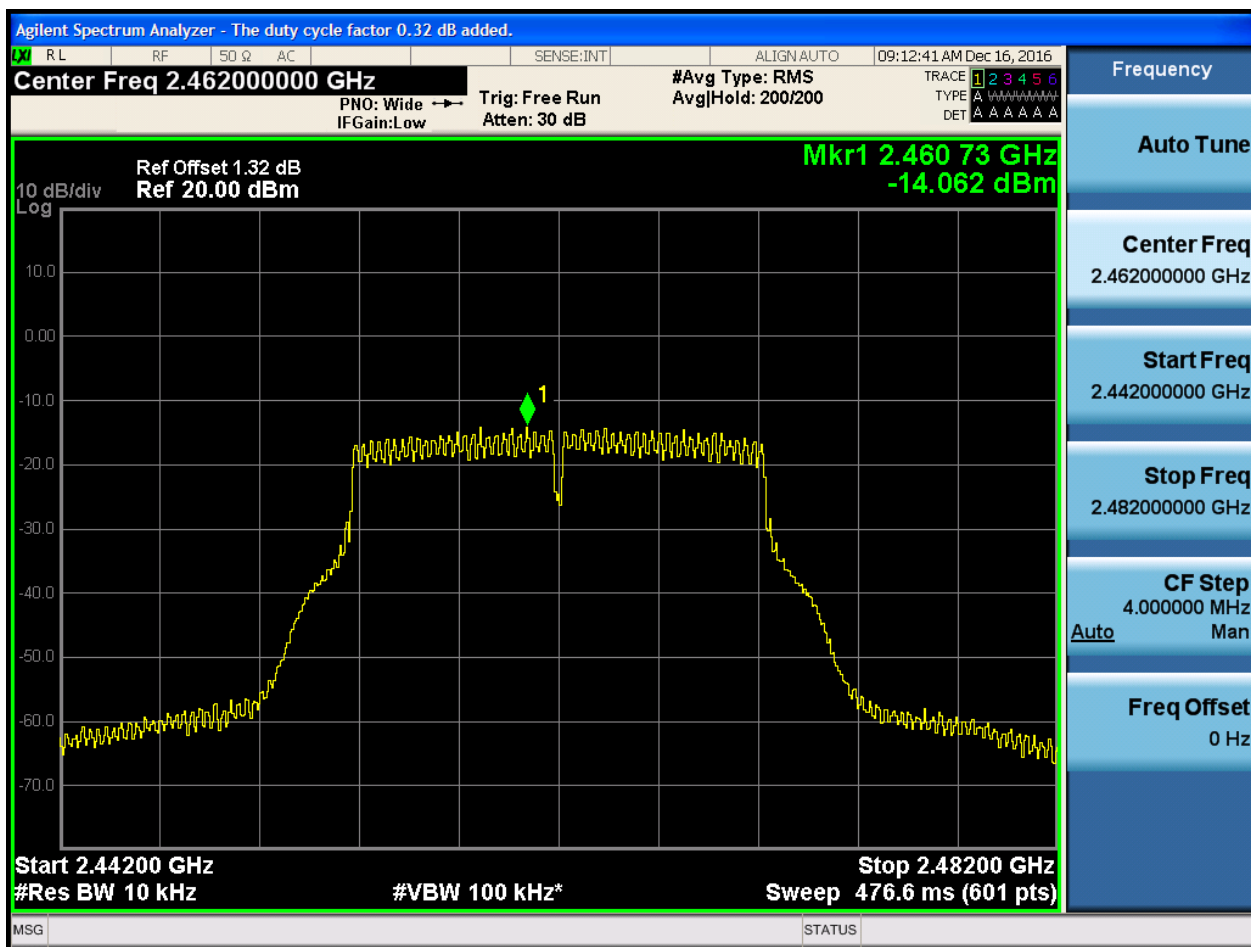


2.28 11G CDD_M@Ant 2



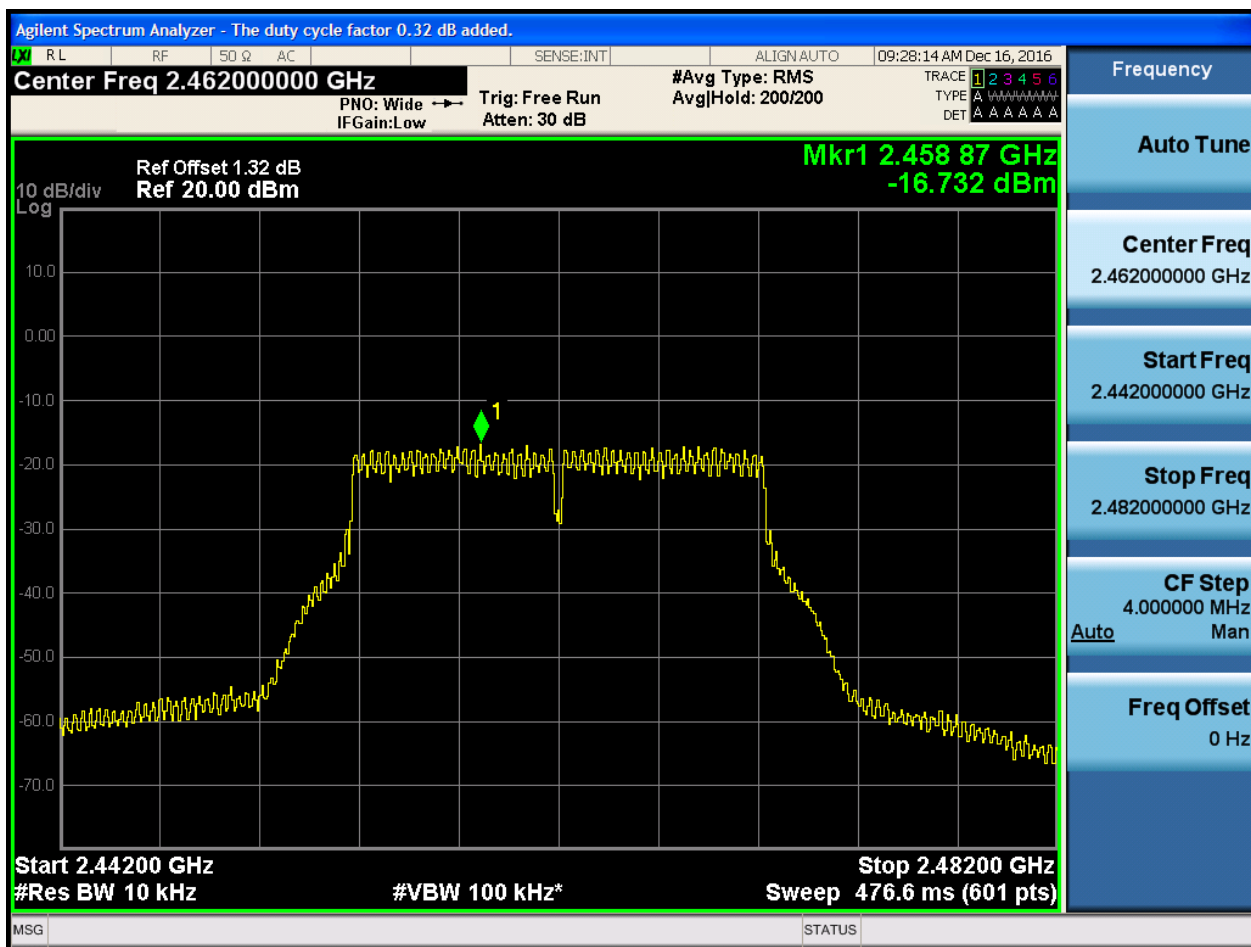


2.29 11G CDD_H@Ant 1





2.30 11G CDD_H@Ant 2



Appendix F: Band Edges Compliance

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
11B	L	2412	Ant 1	9.27	-50.85	pass
11B	L	2412	Ant 2	6.32	-49.87	pass
11B	H	2462	Ant 1	8.95	-49.19	pass
11B	H	2462	Ant 2	5.90	-50.33	pass
11G	L	2412	Ant 1	4.80	-50.36	pass
11G	L	2412	Ant 2	1.64	-44.99	pass
11G	H	2462	Ant 1	4.01	-47.10	pass
11G	H	2462	Ant 2	1.49	-41.33	pass
11N20	L	2412	Ant 1	3.95	-50.32	pass
11N20	L	2412	Ant 2	0.71	-47.08	pass
11N20	H	2462	Ant 1	3.22	-46.64	pass
11N20	H	2462	Ant 2	0.38	-42.84	pass
11N20m	L	2412	Ant 1	3.63	-49.14	pass
11N20m	L	2412	Ant 2	0.71	-45.53	pass
11N20m	H	2462	Ant 1	3.63	-49.14	pass
11N20m	H	2462	Ant 2	0.36	-42.68	pass
11G CDD	L	2412	Ant 1	4.76	-49.14	pass
11G CDD	L	2412	Ant 2	1.51	-44.81	pass
11G CDD	H	2462	Ant 1	3.75	-46.17	pass
11G CDD	H	2462	Ant 2	1.37	-43.78	pass



Part II - Test Plots

2.1 11B_L@Ant 1



2.2 11B_L@Ant 2





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.473500000 GHz

PNO: Wide → Trig: Free Run
IFGain: Low Atten: 40 dB

Avg Type: Log-Pwr
Avg/Hold: 100/100

05:46:19 PM Dec 15, 2016

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

Ref Offset 1 dB
Ref 30.00 dBm

Mkr2 2.483 50 GHz
-49.189 dBm

10 dB/div
Log

Start 2.45350 GHz
#Res BW 100 kHz

#VBW 300 kHz

Stop 2.49350 GHz
#Sweep 100.0 ms (601 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.461 50 GHz	8.946 dBm			
2	N	1	f	2.483 50 GHz	-49.189 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq
2.473500000 GHz

Start Freq
2.453500000 GHz

Stop Freq
2.493500000 GHz

CF Step
4.000000 MHz

Auto

Man

Freq Offset
0 Hz

2.4 11B_H@Ant 2





2.5 11G_L@Ant 1





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.40000000 GHz

Ref Offset 1 dB
Ref 30.00 dBm

Mkr2 2.390 00 GHz
-44.986 dBm

Start 2.38000 GHz
#Res BW 100 kHz

Stop 2.42000 GHz
#Sweep 100.0 ms (601 pts)

#VBW 300 kHz

10 dB/div
Log

20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

2.414 47 GHz
1.643 dBm

2.390 00 GHz
-44.986 dBm

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.414 47 GHz	1.643 dBm			
2	N	1	f	2.390 00 GHz	-44.986 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

Frequency

Auto Tune

Center Freq
2.40000000 GHz

Start Freq
2.38000000 GHz

Stop Freq
2.42000000 GHz

CF Step
4.000000 MHz

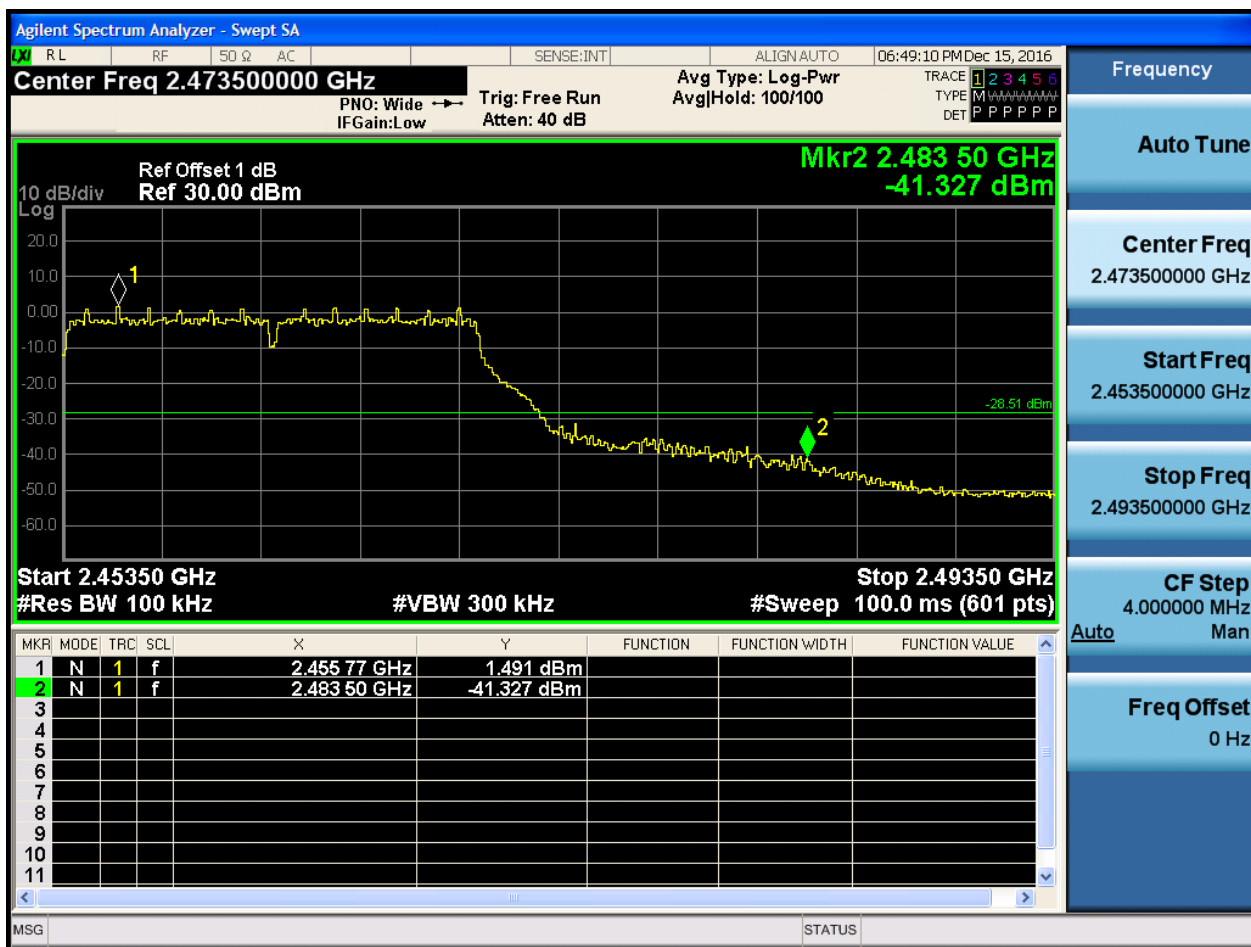
Auto

Freq Offset
0 Hz

2.7 11G_H@Ant 1

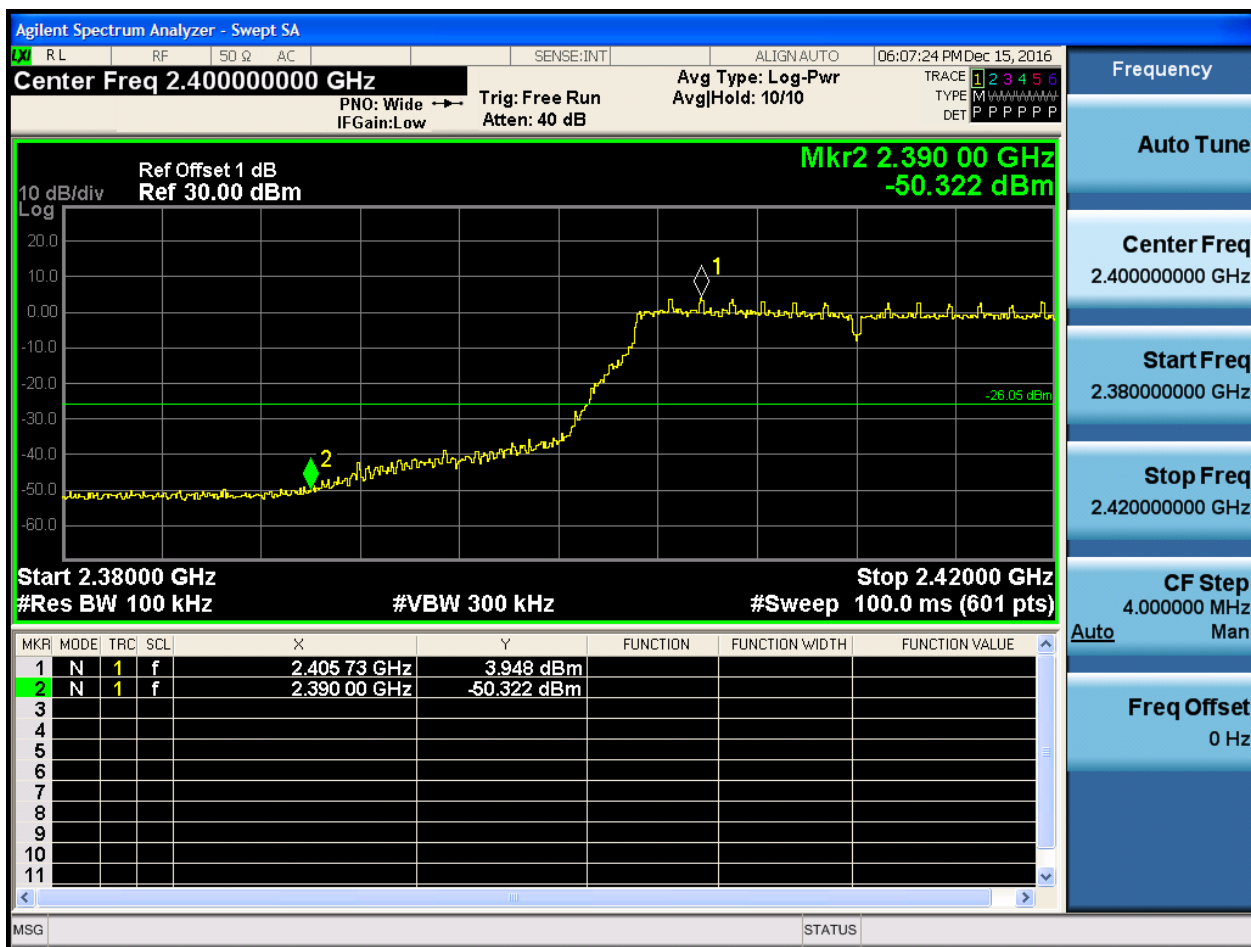


2.8 11G_H@Ant 2

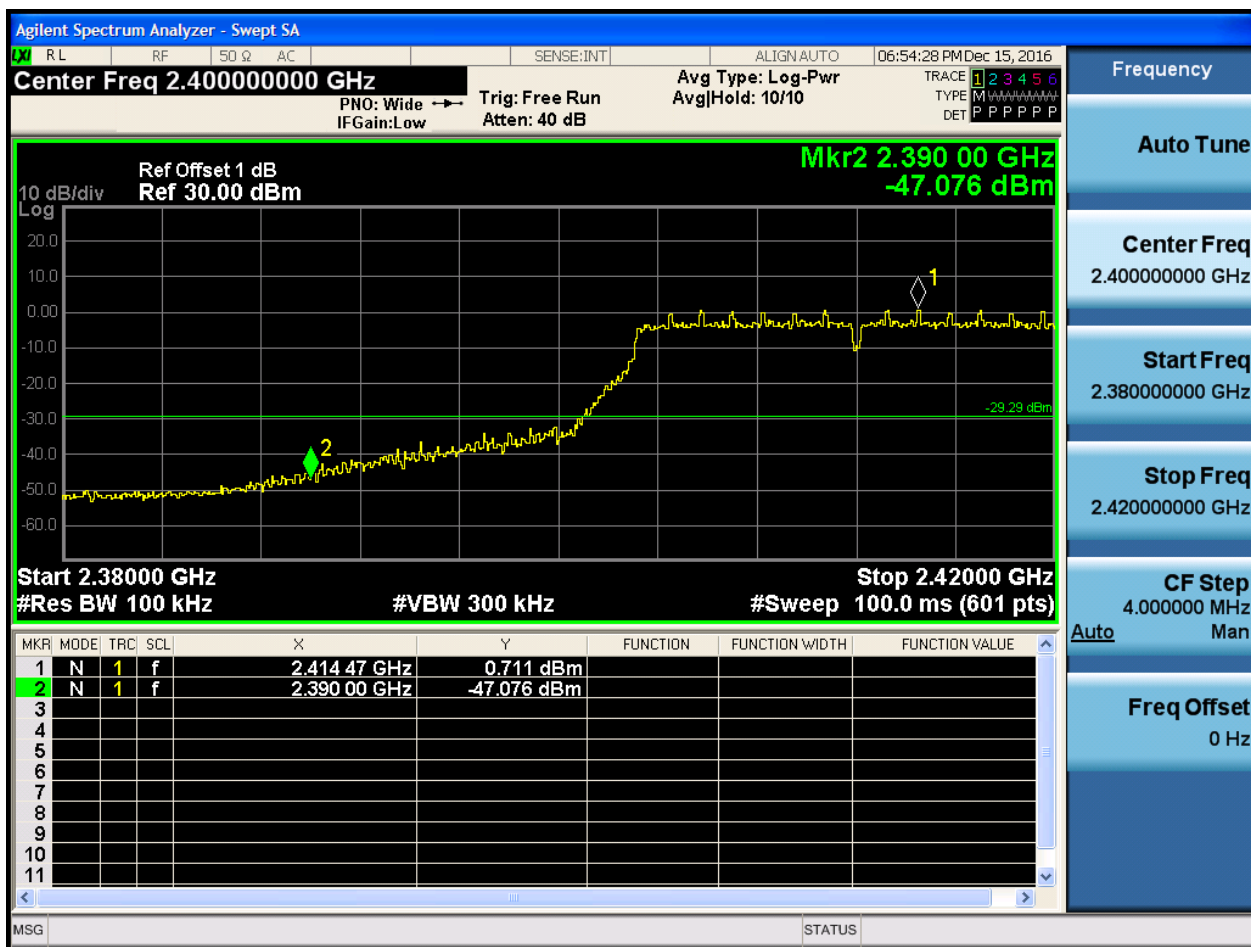




2.9 11N20_L@Ant 1



2.10 11N20_L@Ant 2





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.473500000 GHz

Ref Offset 1 dB
Ref 30.00 dBm

Mkr2 2.483 50 GHz
-46.645 dBm

10 dB/div
Log

Start 2.45350 GHz
#Res BW 100 kHz

Stop 2.49350 GHz
#Sweep 100.0 ms (601 pts)

#VBW 300 kHz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.464 50 GHz	3.218 dBm			
2	N	1	f	2.483 50 GHz	-46.645 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

Frequency

Auto Tune

Center Freq
2.473500000 GHz

Start Freq
2.453500000 GHz

Stop Freq
2.493500000 GHz

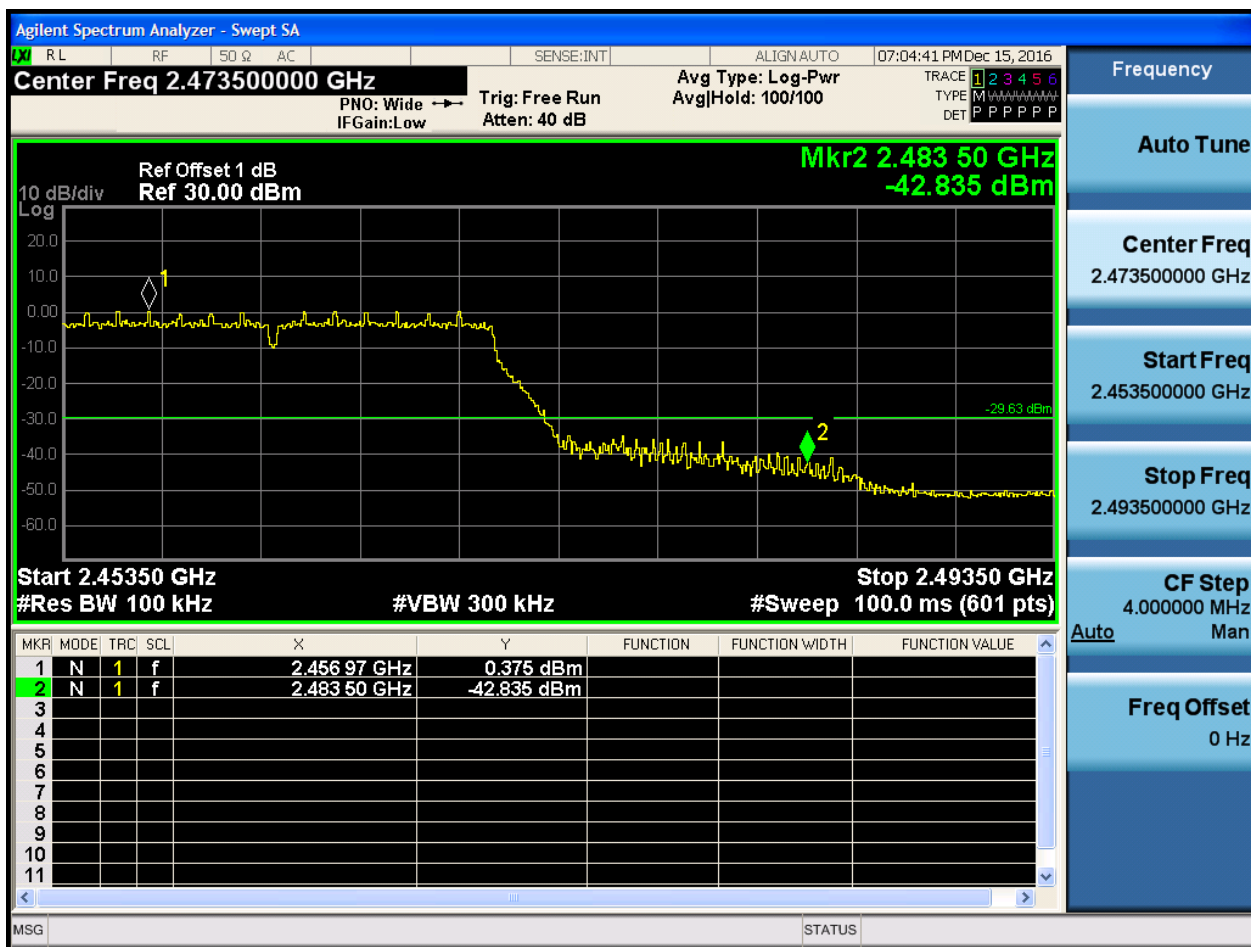
CF Step
4.000000 MHz
Man

Freq Offset
0 Hz

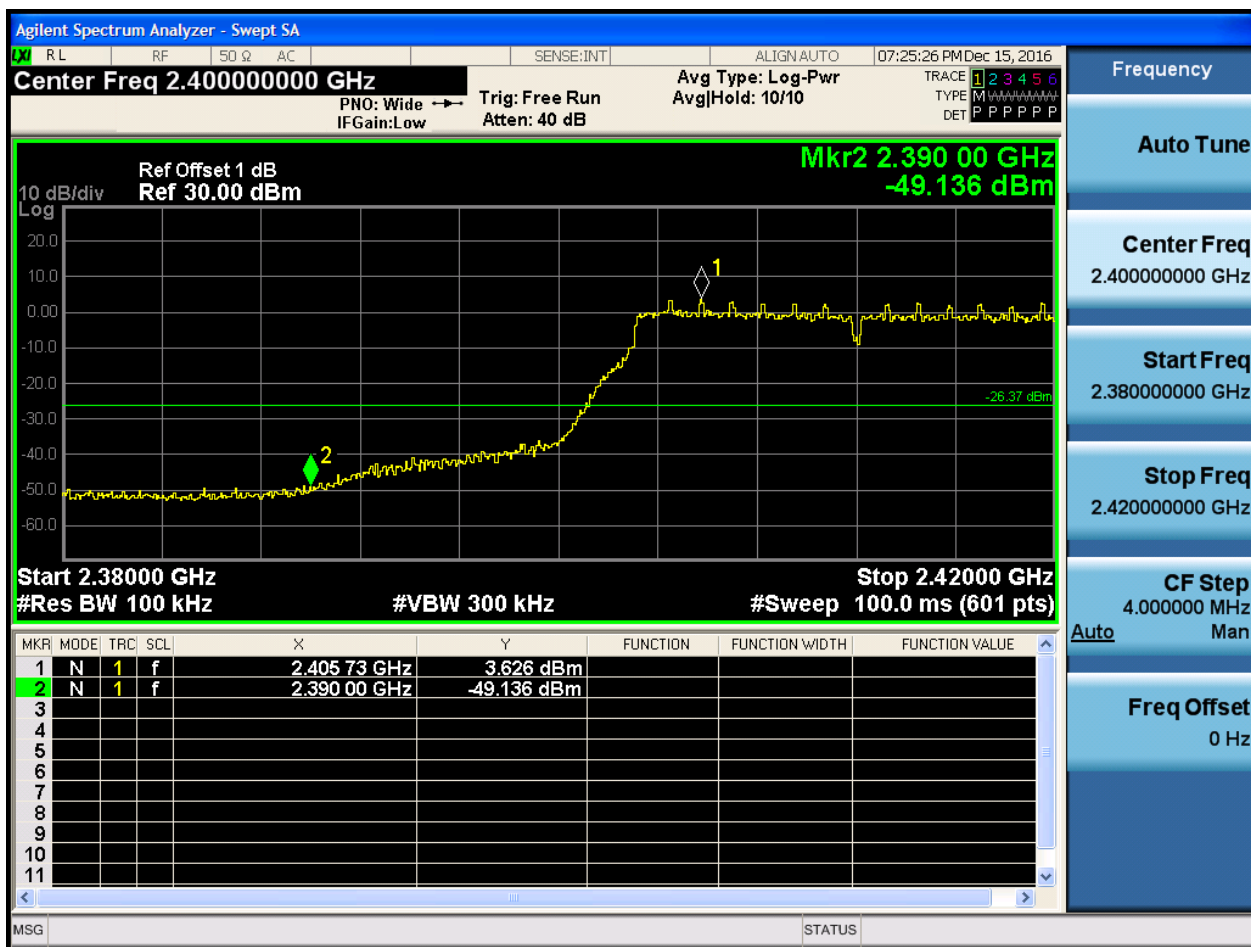
MSG

STATUS

2.12 11N20_H@Ant 2



2.13 11N20m_L@Ant 1





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.40000000 GHz Avg Type: Log-Pwr Trace 1 2 3 4 5 6
PNO: Wide → Trig: Free Run AvgHold: 10/10 TYPE M W W W W W W W W W
IFGain: Low Atten: 40 dB DET P P P P P P

Ref Offset 1 dB
Ref 30.00 dBm

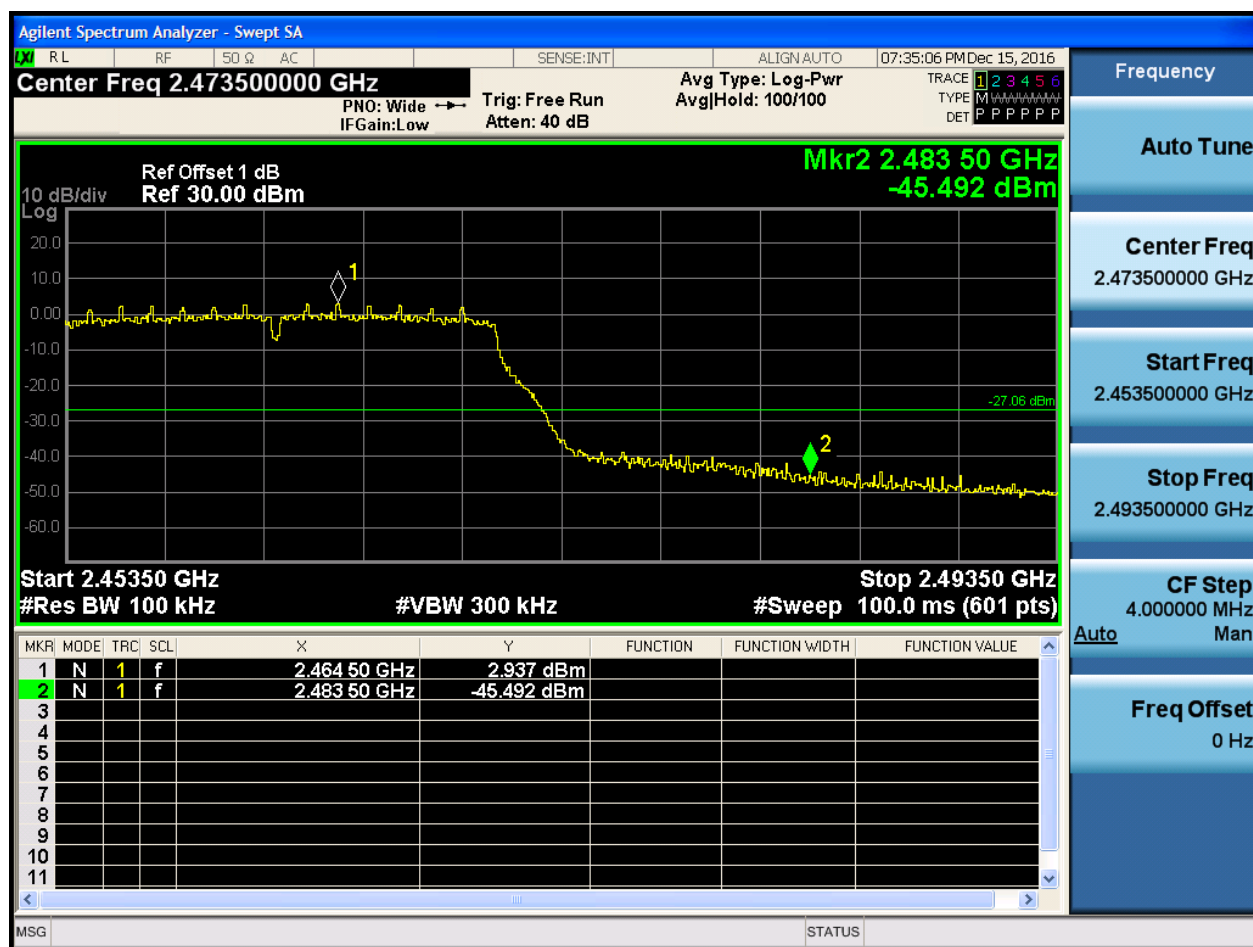
Mkr2 2.390 00 GHz
-45.530 dBm

Start 2.38000 GHz Stop 2.42000 GHz
#Res BW 100 kHz #VBW 300 kHz #Sweep 100.0 ms (601 pts)

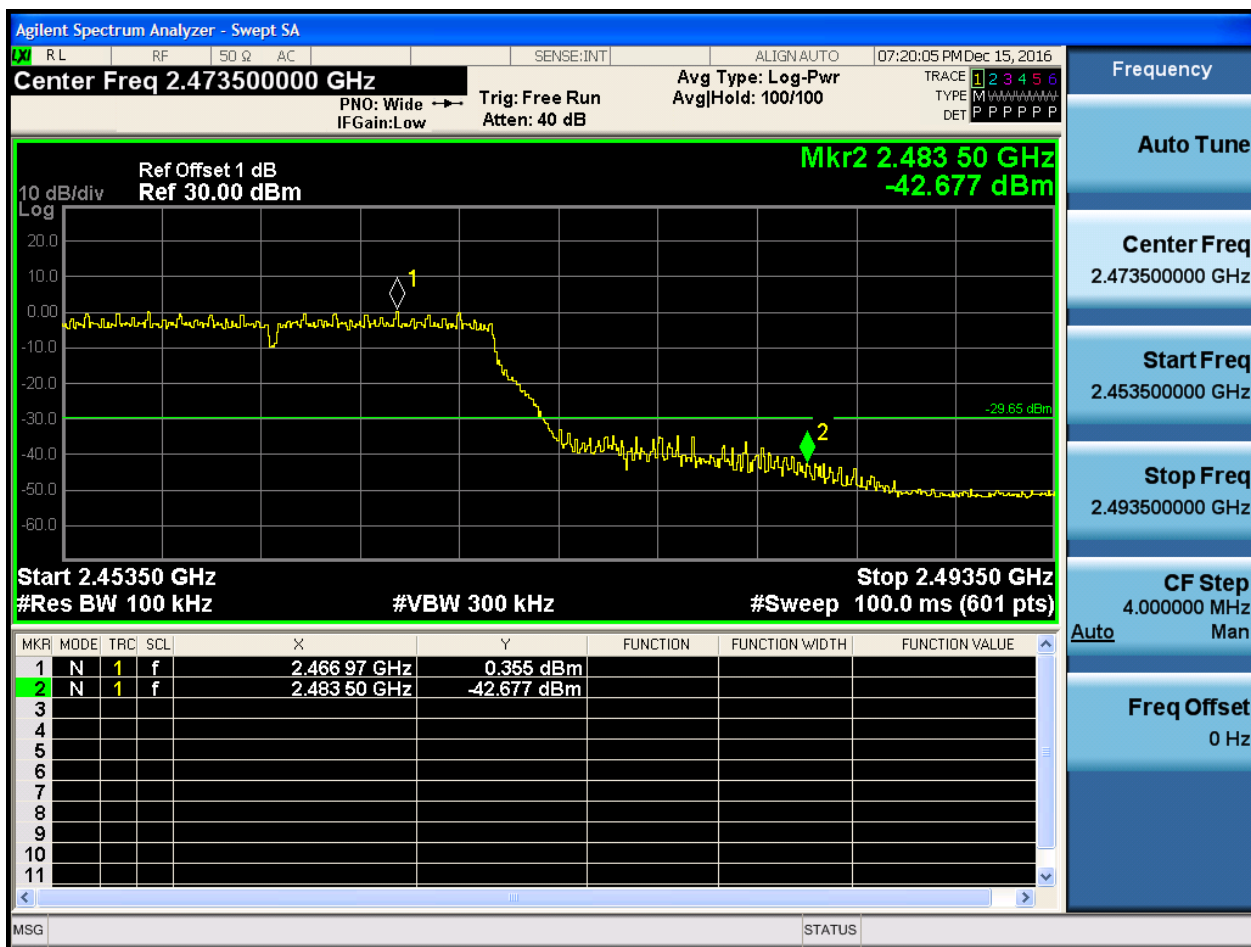
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.417 00 GHz	0.707 dBm			
2	N	1	f	2.390 00 GHz	-45.530 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

Frequency Auto Tune Center Freq 2.40000000 GHz Start Freq 2.38000000 GHz Stop Freq 2.42000000 GHz CF Step 4.000000 MHz Man Freq Offset 0 Hz

2.15 11N20m_H@Ant 1

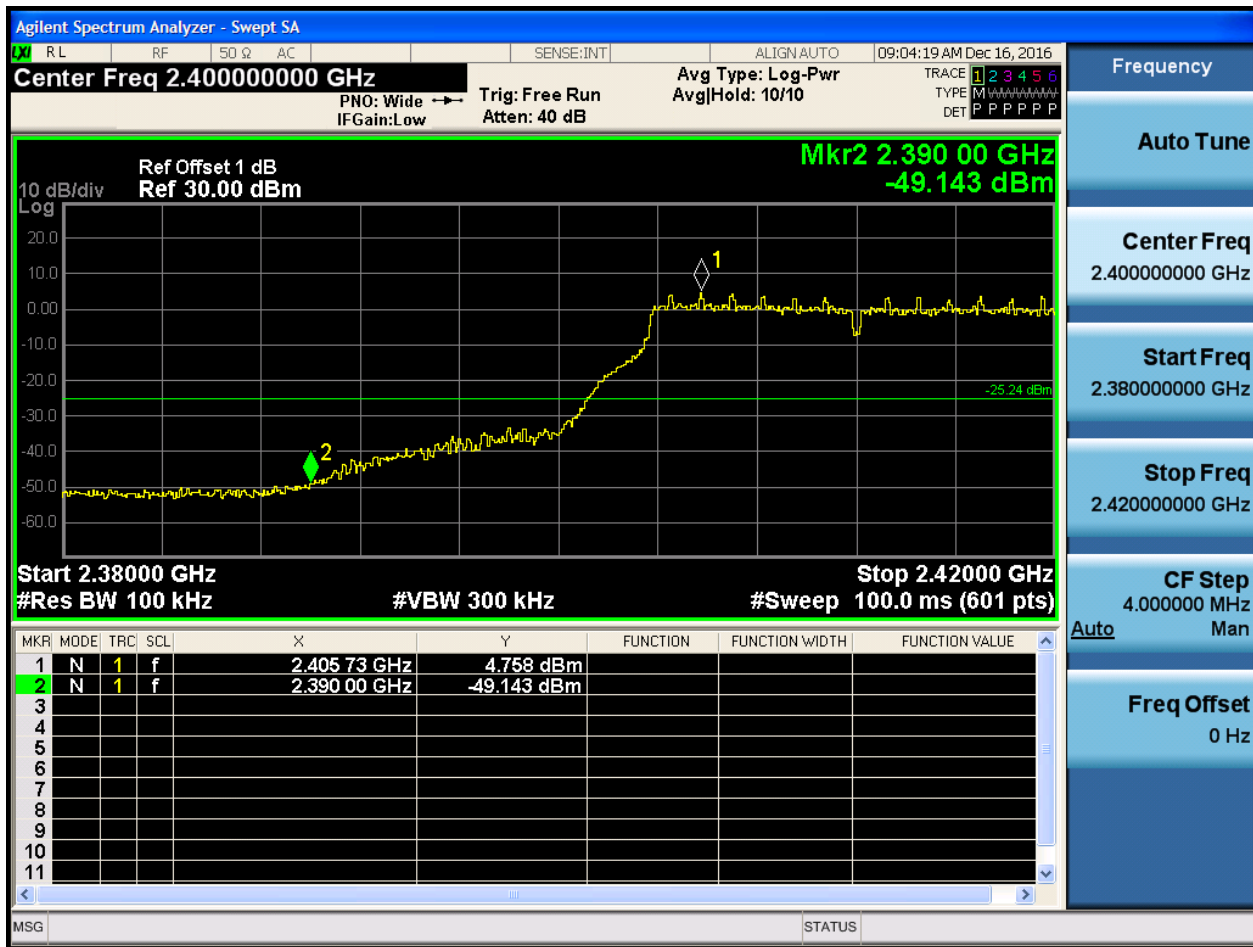


2.16 11N20m_H@Ant 2

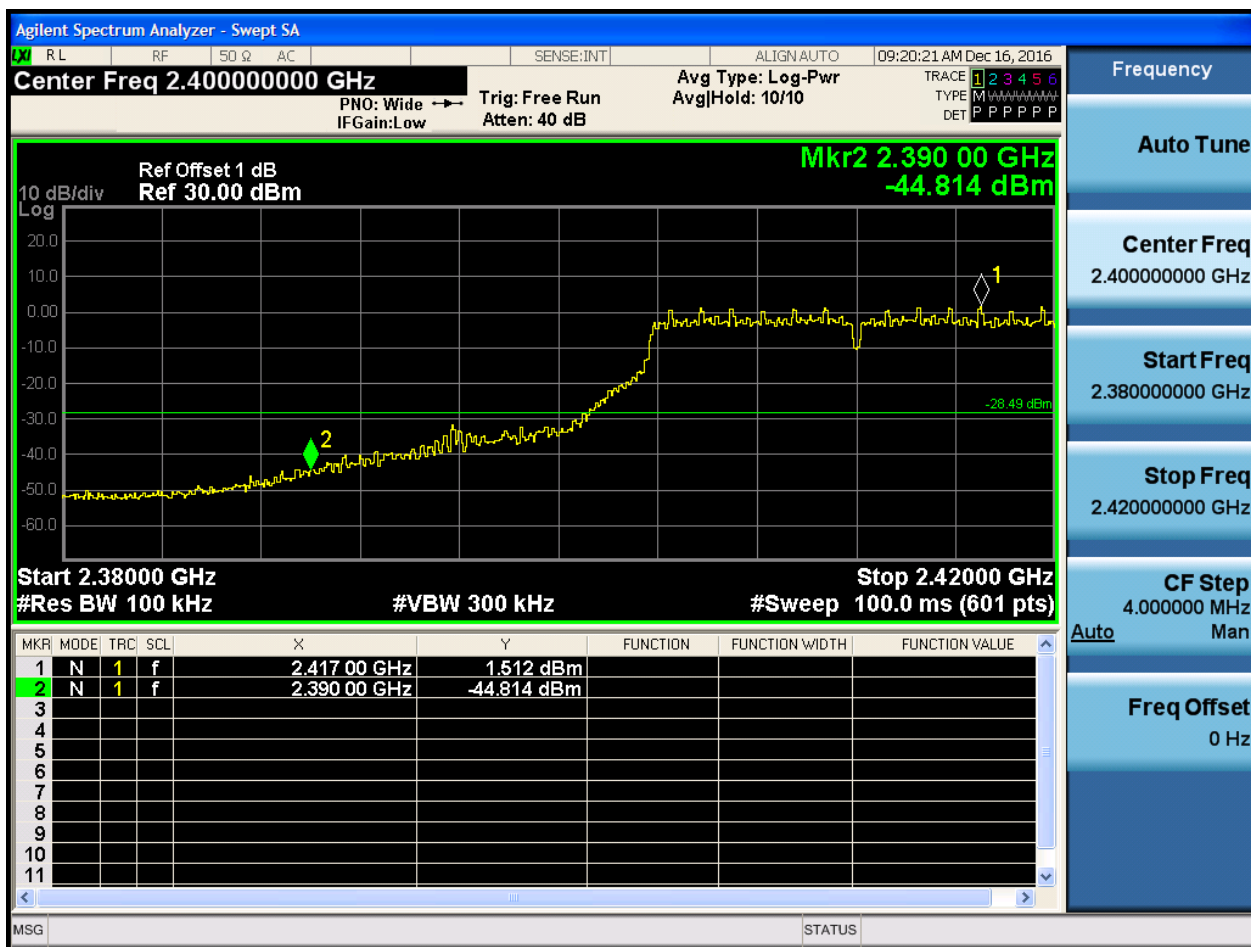




2.17 11G CDD_L@Ant 1



2.18 11G CDD_L@Ant 2





2.19 11G CDD_H@Ant 1





2.20 11G CDD_H@Ant 2



Appendix G: Unwanted Emissions into Non-Restricted Frequency

Bands

In this Appendix, the "Pref", which is used as the reference level, refers to the peak power level in any 100 kHz bandwidth within the fundamental emission, the "Puw" refers to the maximum emission power in 100 kHz band segments outside of the authorized frequency band.

Considering that the higher ratio of RBW to the span for the frequency ranges below 30 MHz makes the results determination be complicated, a narrower RBW other than 100 kHz is used for these ranges. The measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \times \lg(100 [kHz]/\text{narrower RBW} [kHz])$. As to this Appendix, the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain and used as respective results for each chain, due to the relative-limit requirement.

In the result table, the "< Limit" denotes that "The Puw [dBm] is less than Pref[dBm]-30[dBm], see test plots for detailed".

Part I - Test Results

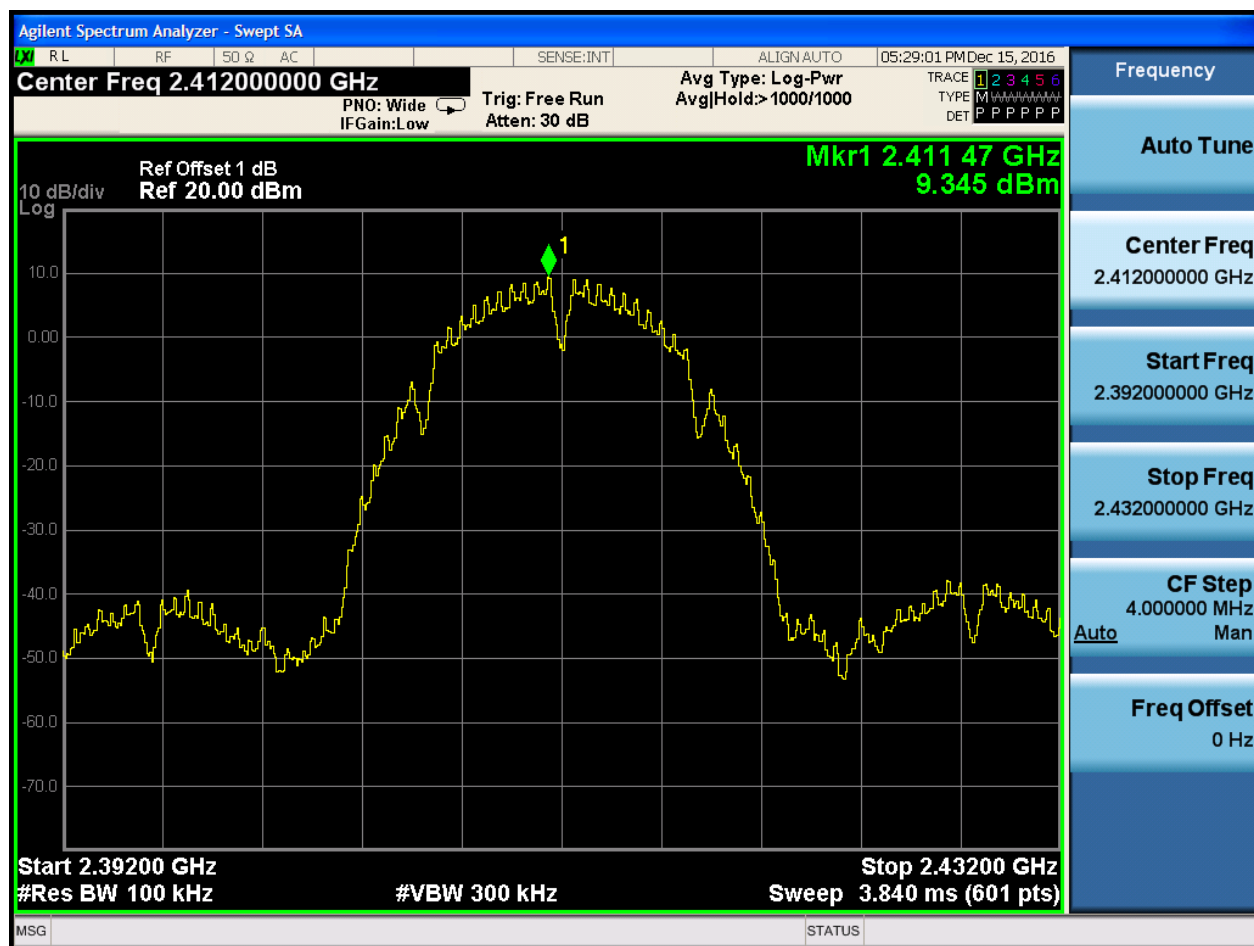
Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11B	L	2412	Ant 1	9.35	<limit	pass
11B	L	2412	Ant 2	6.62	<limit	pass
11B	M	2437	Ant 1	9.63	<limit	pass
11B	M	2437	Ant 2	6.52	<limit	pass
11B	H	2462	Ant 1	9.21	<limit	pass
11B	H	2462	Ant 2	5.60	<limit	pass
11G	L	2412	Ant 1	4.96	<limit	pass
11G	L	2412	Ant 2	1.89	<limit	pass
11G	M	2437	Ant 1	4.99	<limit	pass
11G	M	2437	Ant 2	2.27	<limit	pass
11G	H	2462	Ant 1	3.99	<limit	pass
11G	H	2462	Ant 2	1.63	<limit	pass
11N20	L	2412	Ant 1	4.18	<limit	pass
11N20	L	2412	Ant 2	0.87	<limit	pass
11N20	M	2437	Ant 1	4.10	<limit	pass
11N20	M	2437	Ant 2	1.36	<limit	pass
11N20	H	2462	Ant 1	3.56	<limit	pass

Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11N20	H	2462	Ant 2	0.62	<limit	pass
11N20m	L	2412	Ant 1	3.86	<limit	pass
11N20m	L	2412	Ant 2	0.90	<limit	pass
11N20m	M	2437	Ant 1	3.95	<limit	pass
11N20m	M	2437	Ant 2	0.76	<limit	pass
11N20m	H	2462	Ant 1	3.54	<limit	pass
11N20m	H	2462	Ant 2	0.43	<limit	pass
11G CDD	L	2412	Ant 1	4.92	<limit	pass
11G CDD	L	2412	Ant 2	1.58	<limit	pass
11G CDD	M	2437	Ant 1	4.94	<limit	pass
11G CDD	M	2437	Ant 2	1.81	<limit	pass
11G CDD	H	2462	Ant 1	4.33	<limit	pass
11G CDD	H	2462	Ant 2	1.39	<limit	pass

Part II - Test Plots

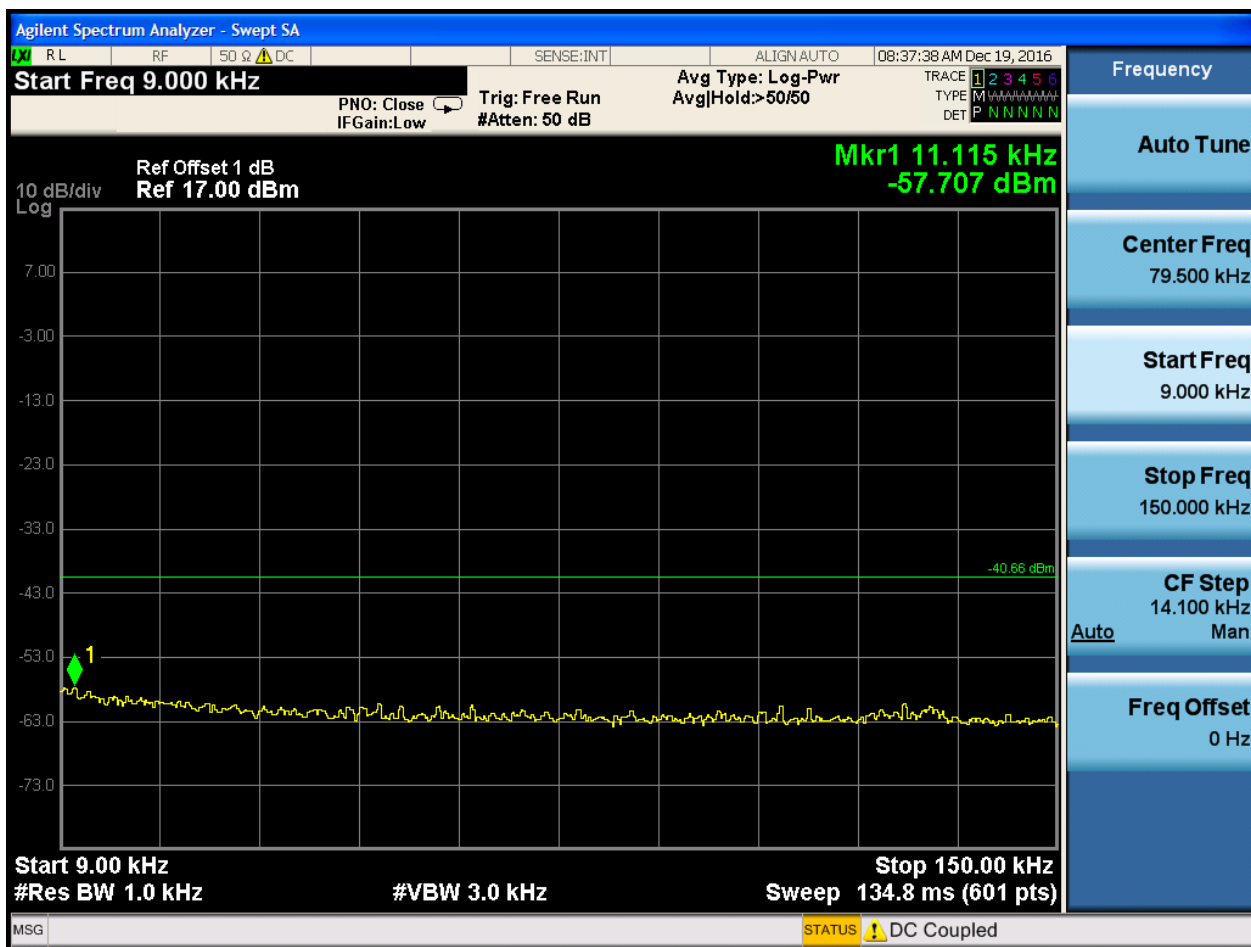
2.1 11B L@Ant 1

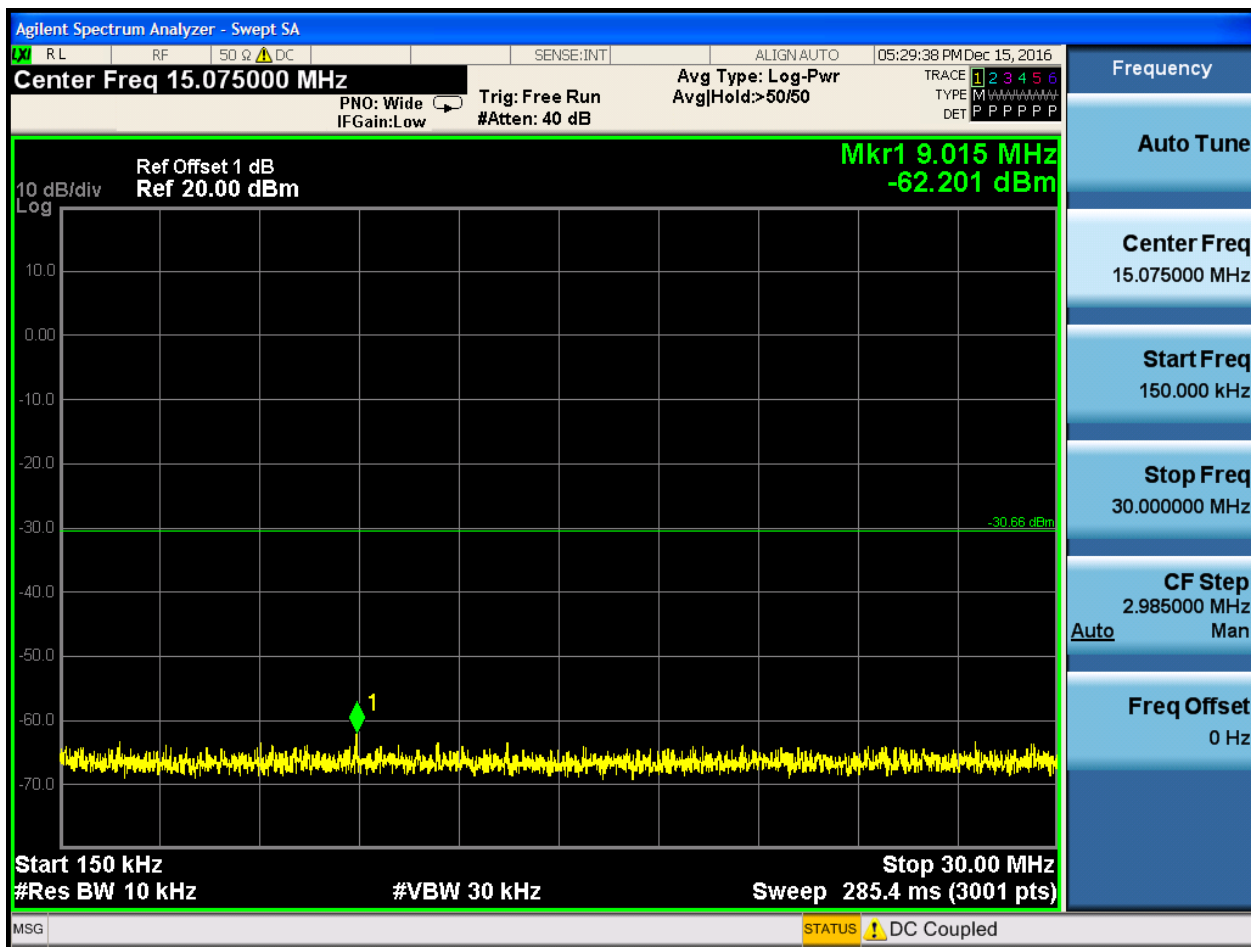
Pref:

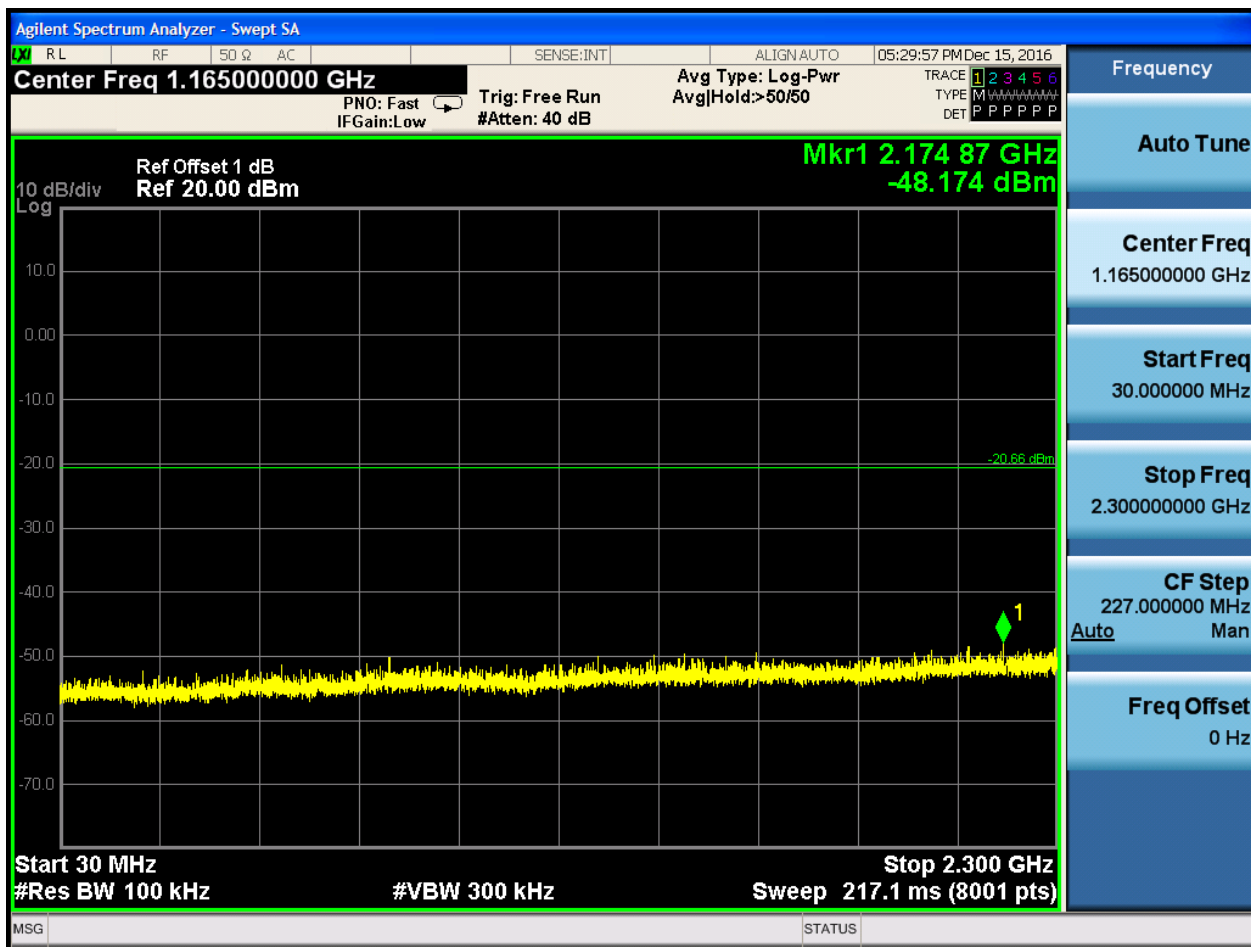


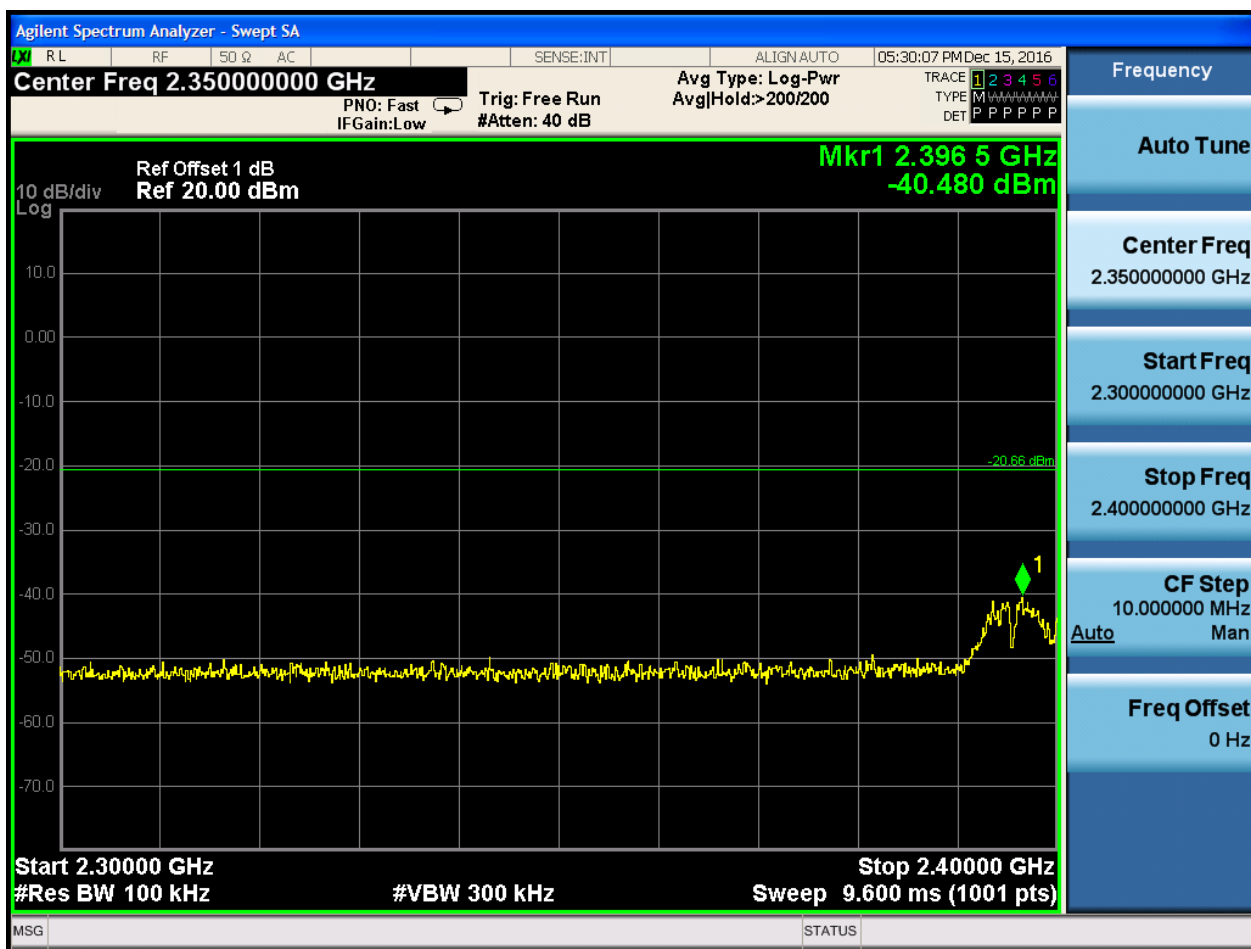


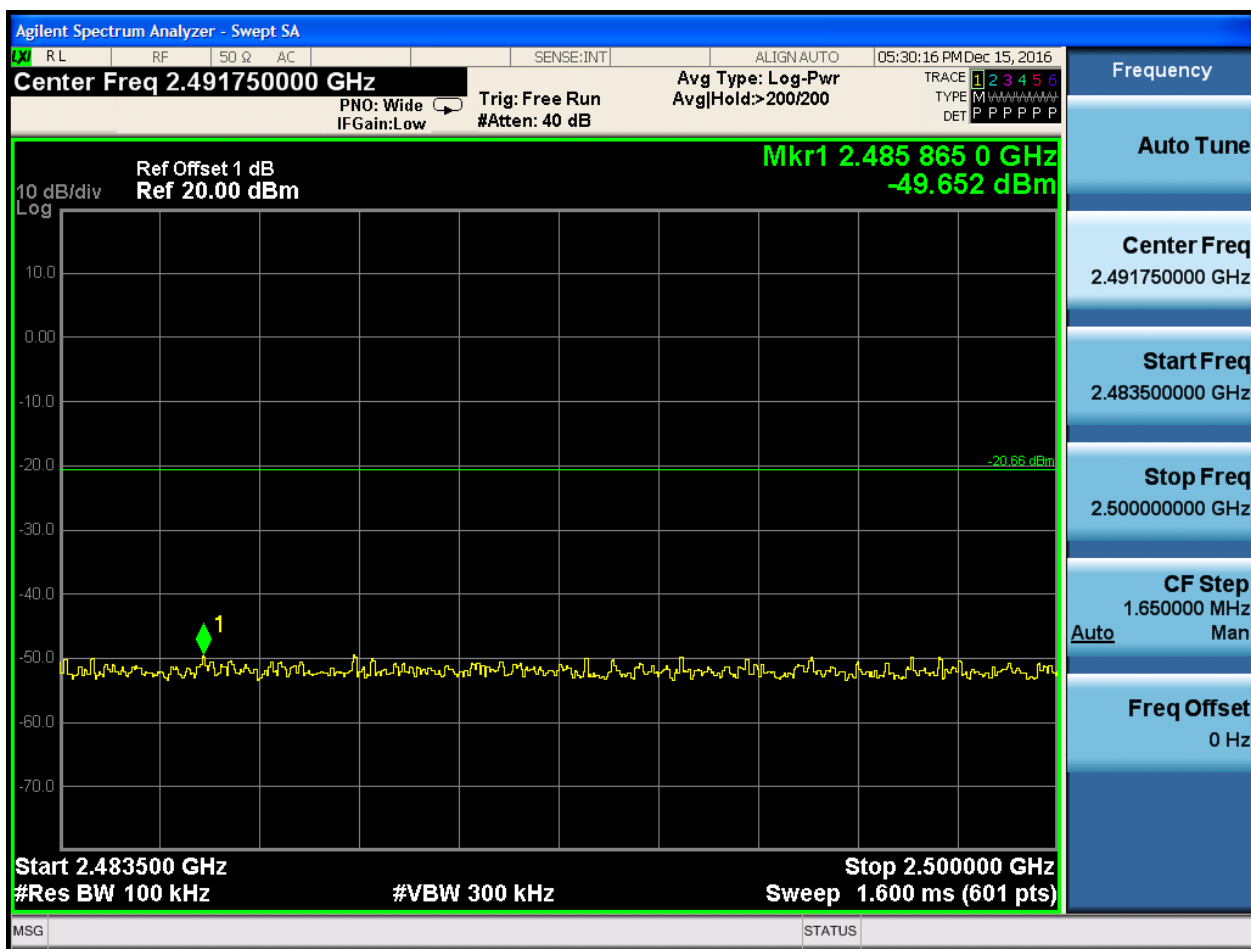
Puw:









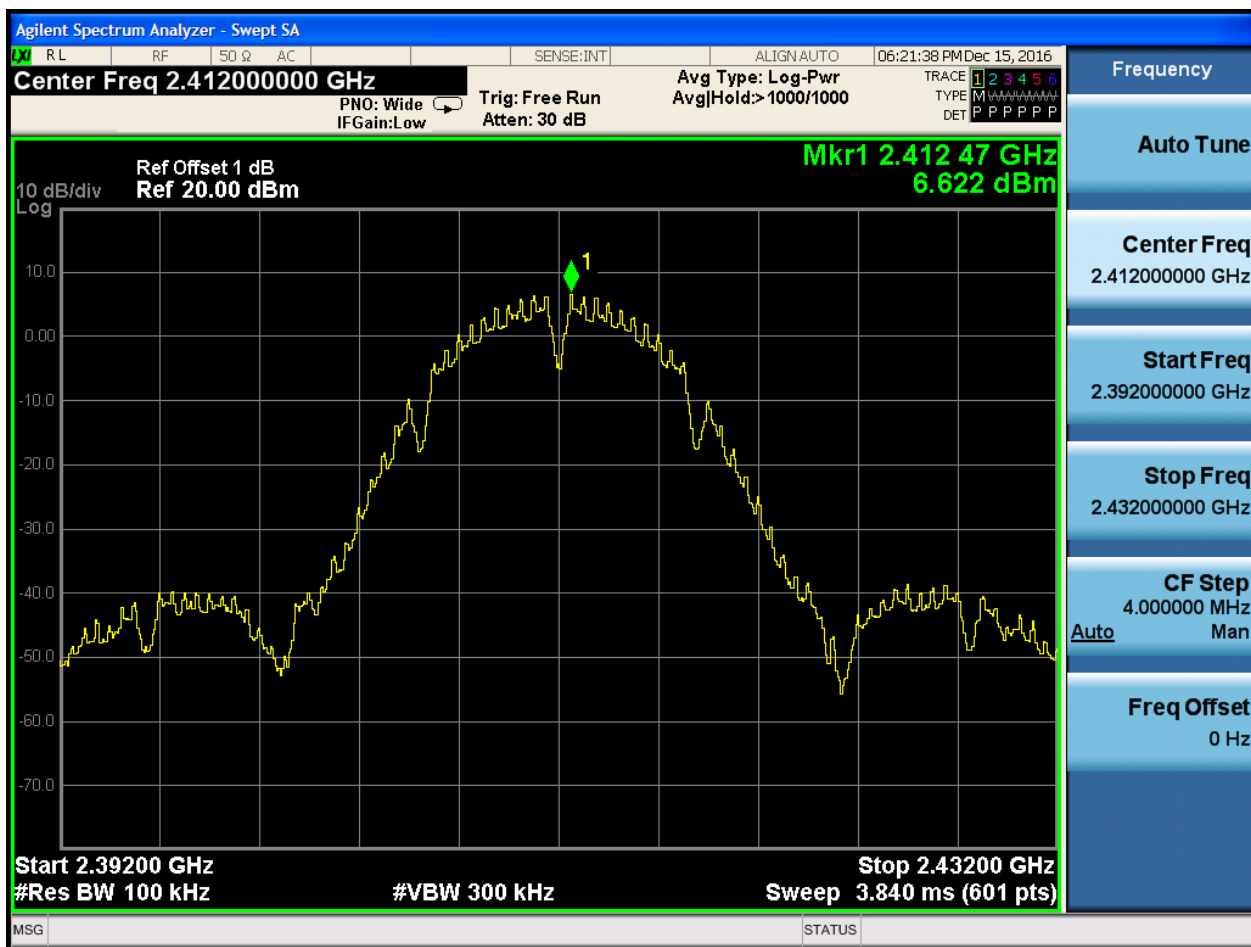






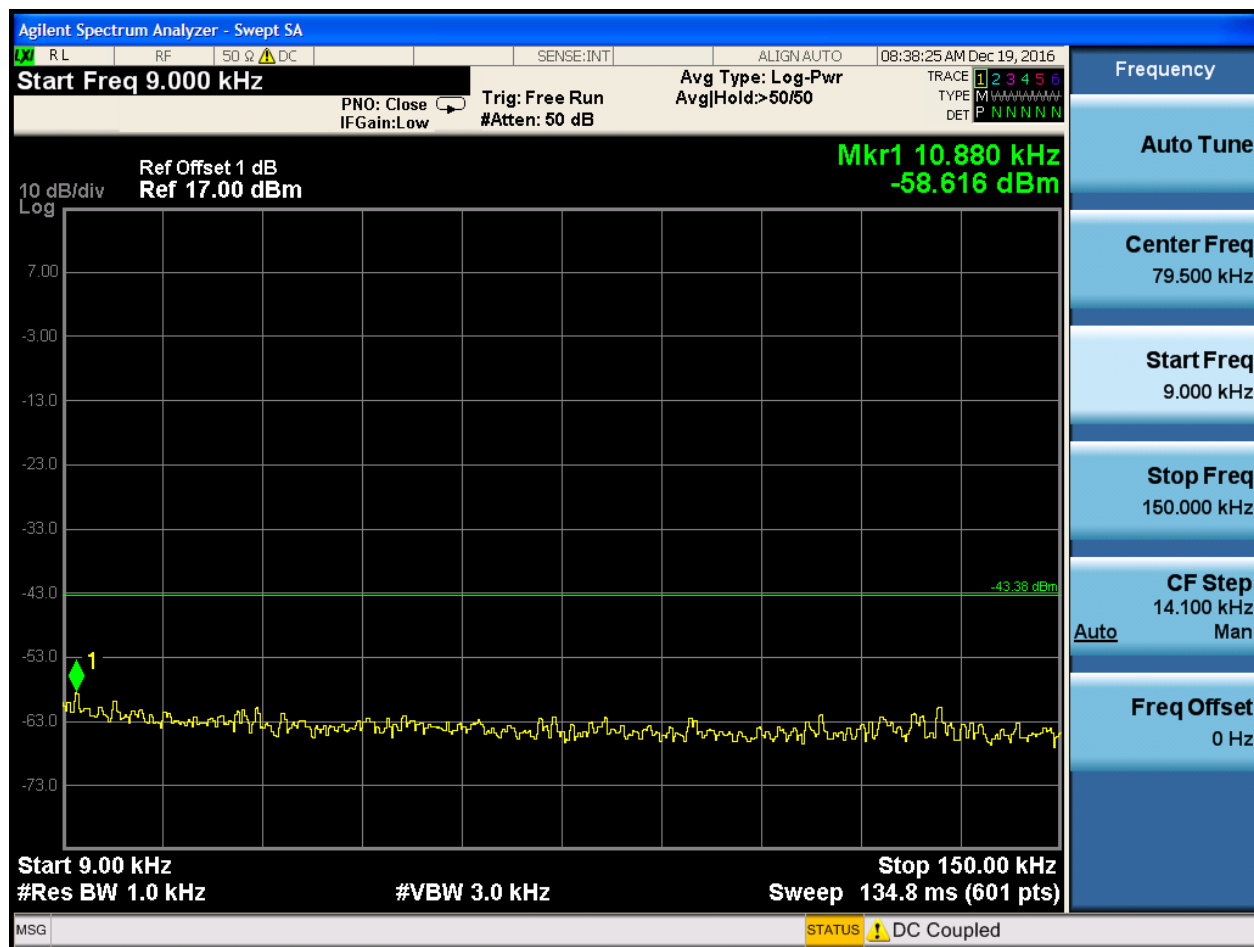
2.2 11B_L@Ant 2

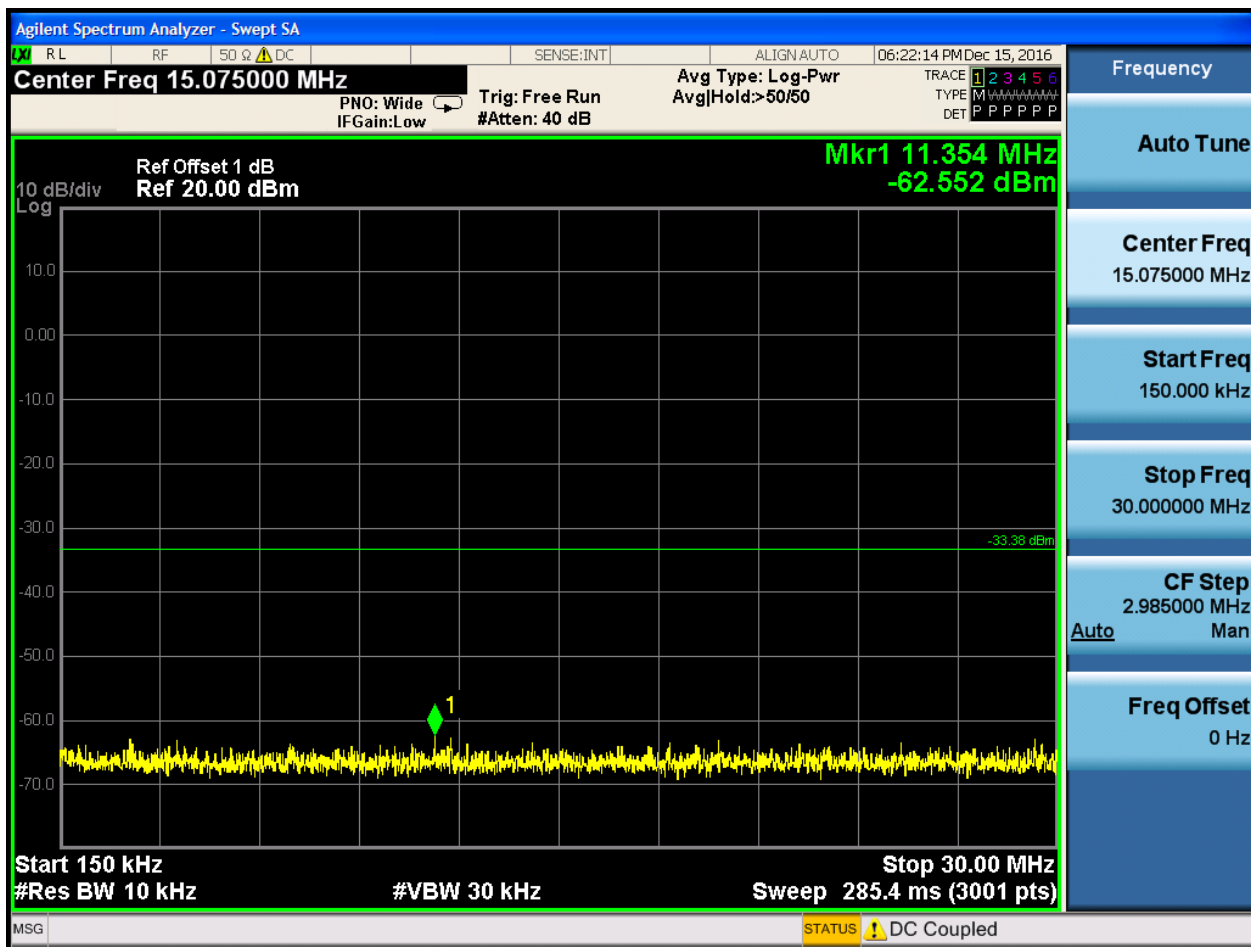
Pref:

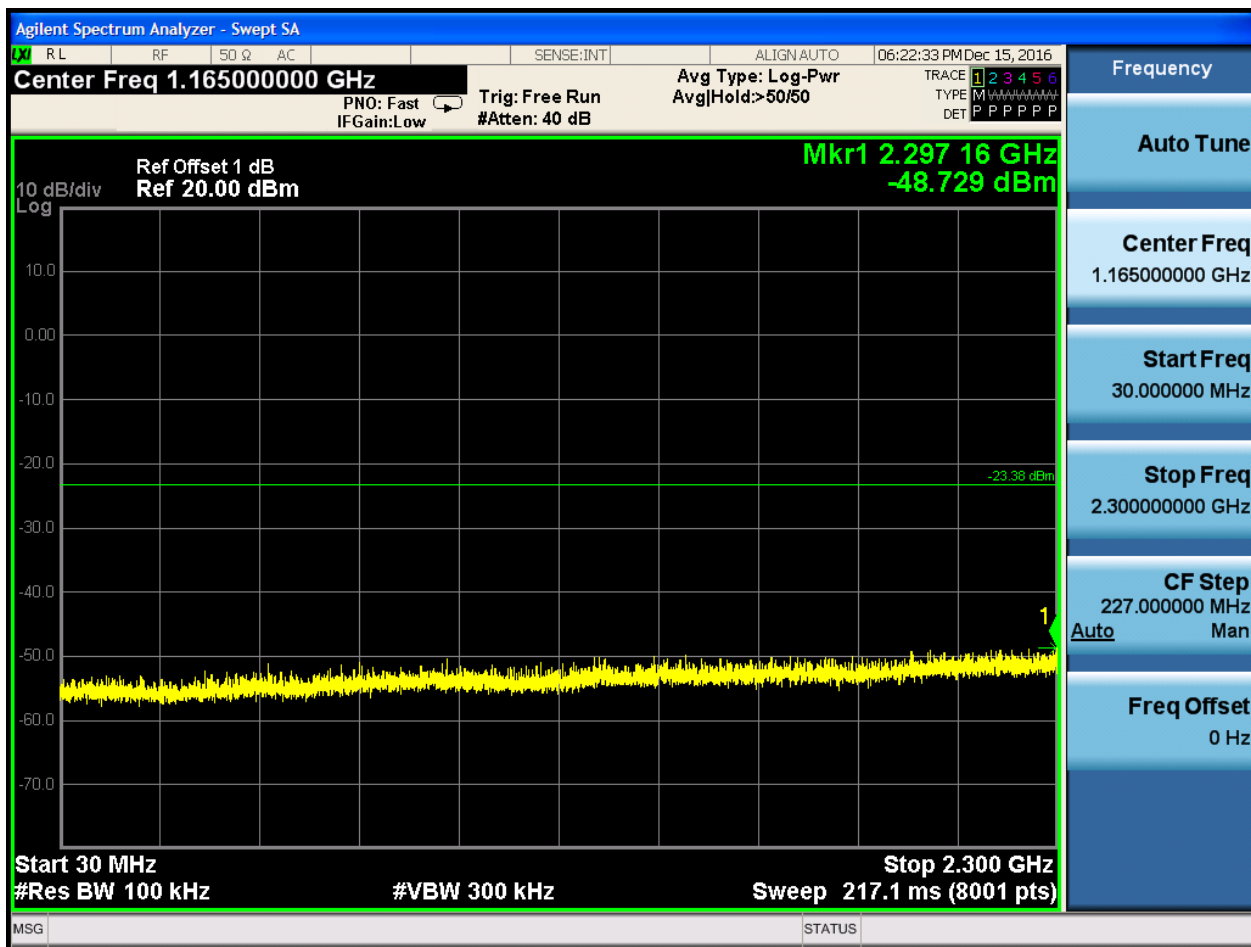


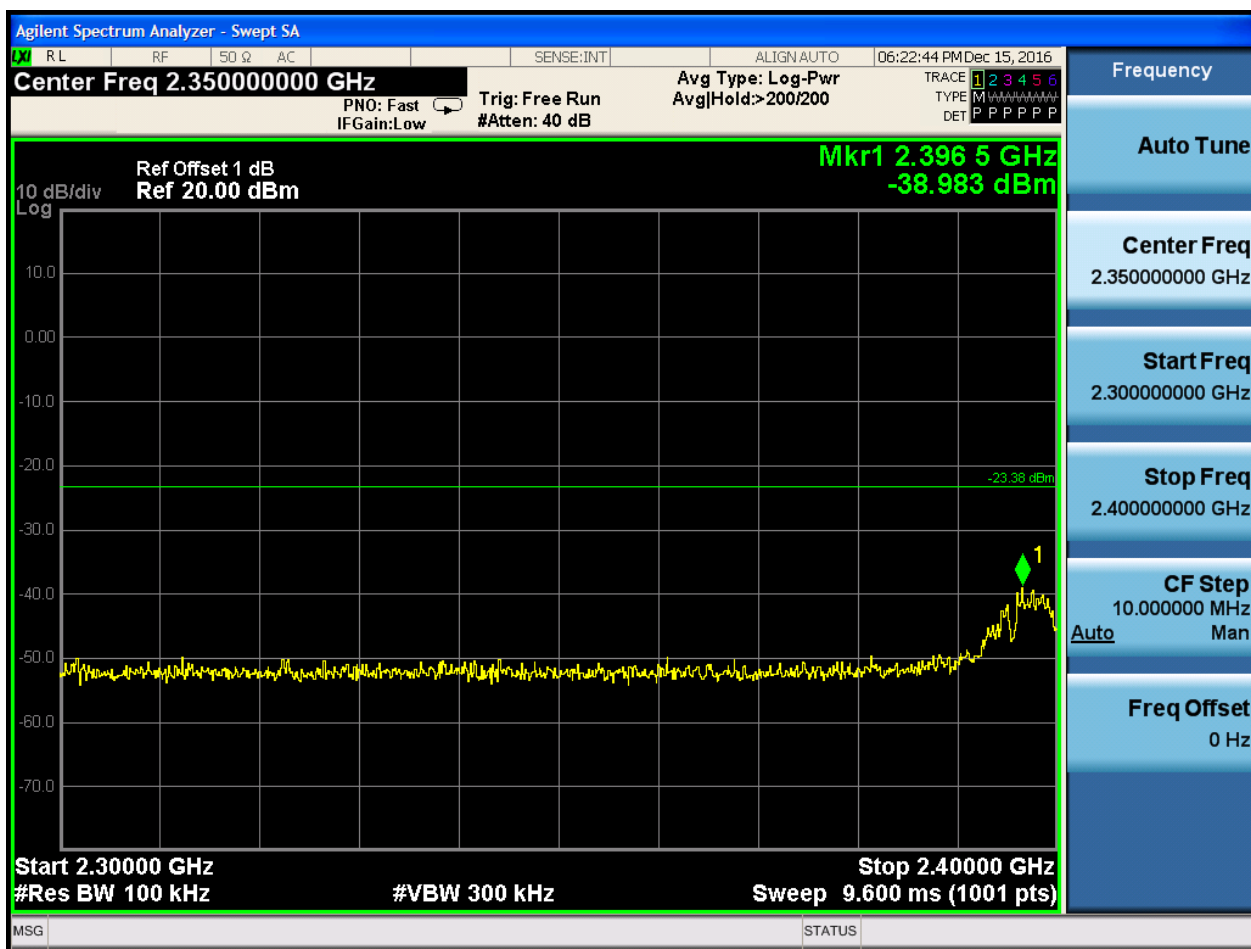


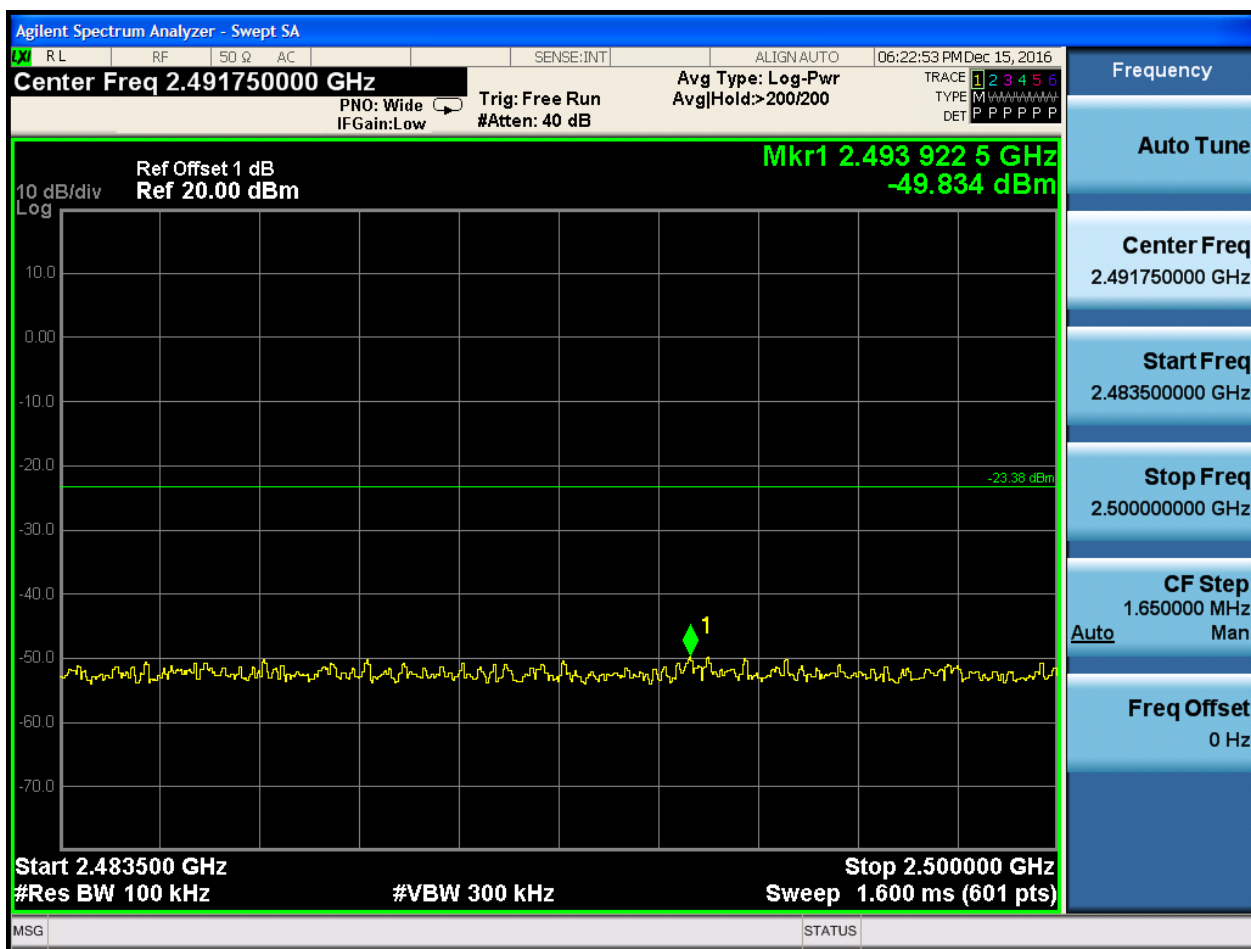
Puw:









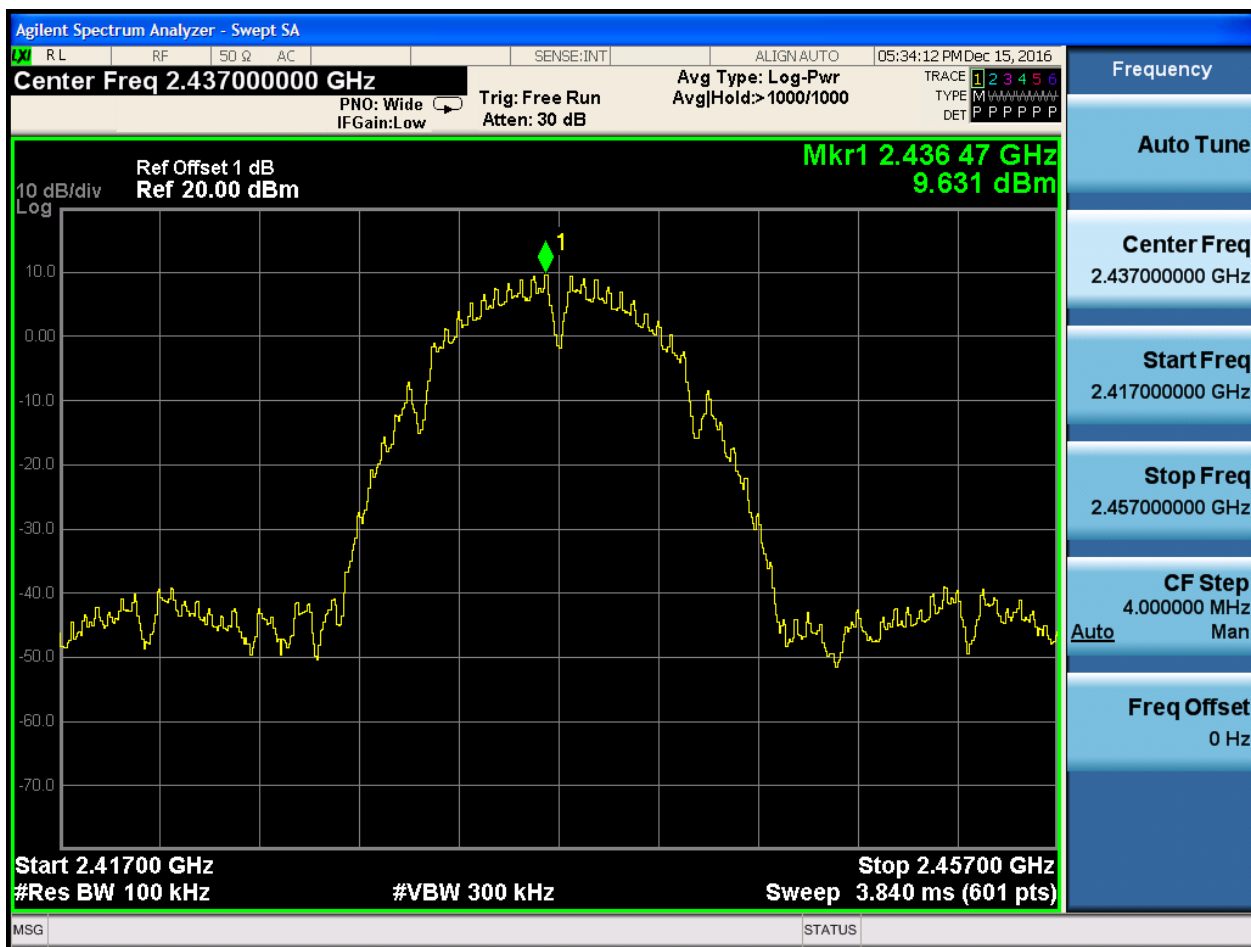






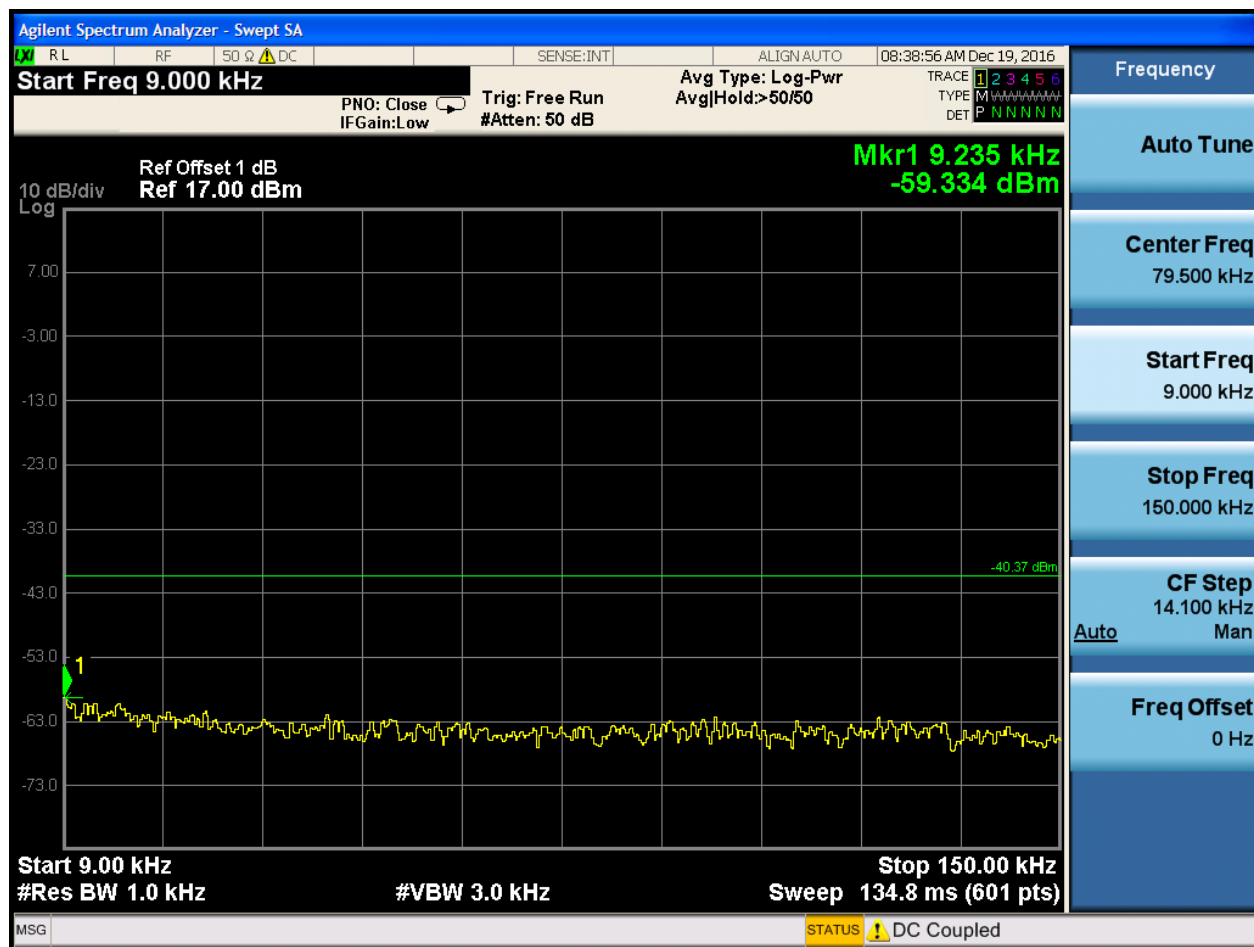
2.3 11B_M@Ant 1

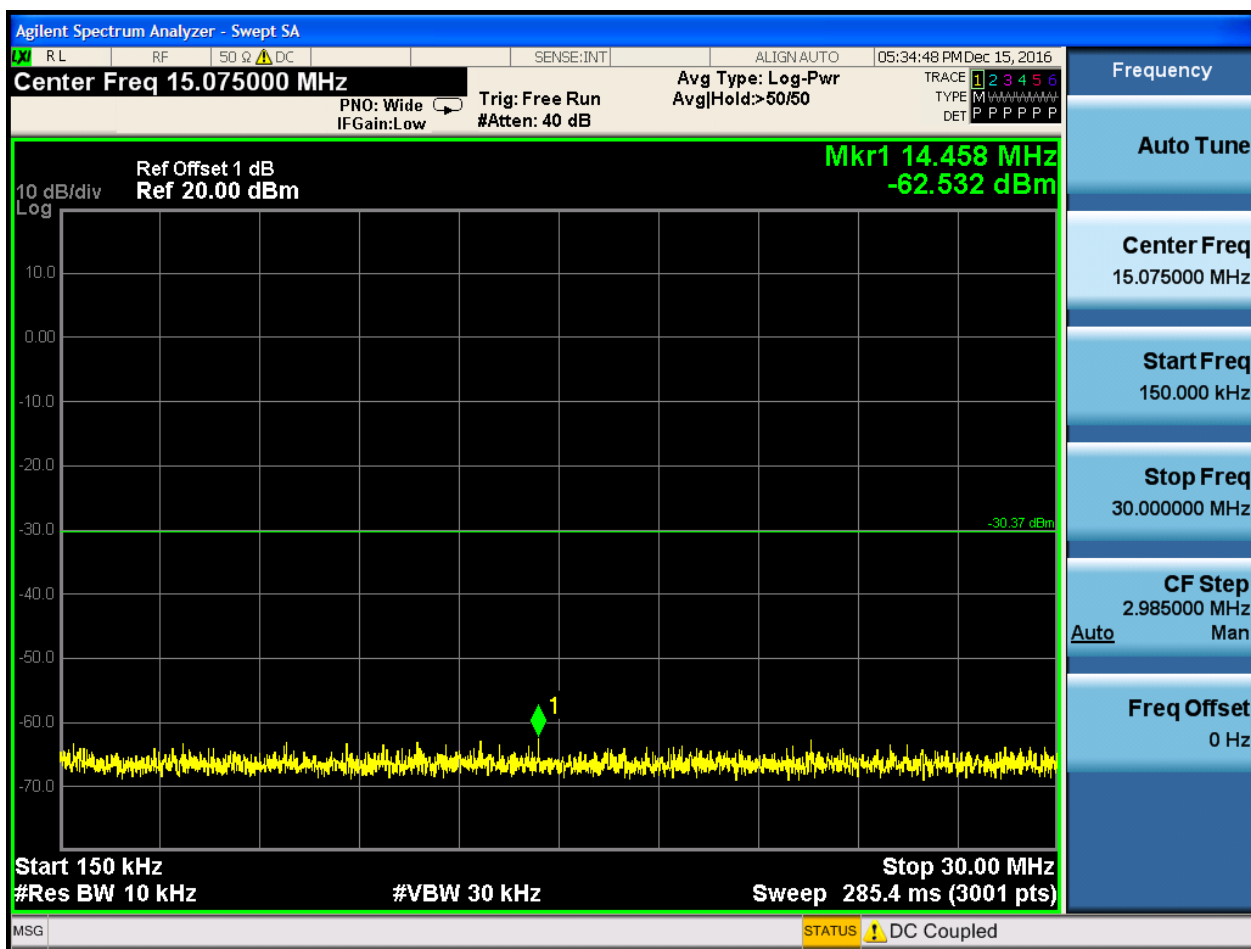
Pref:

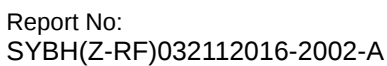


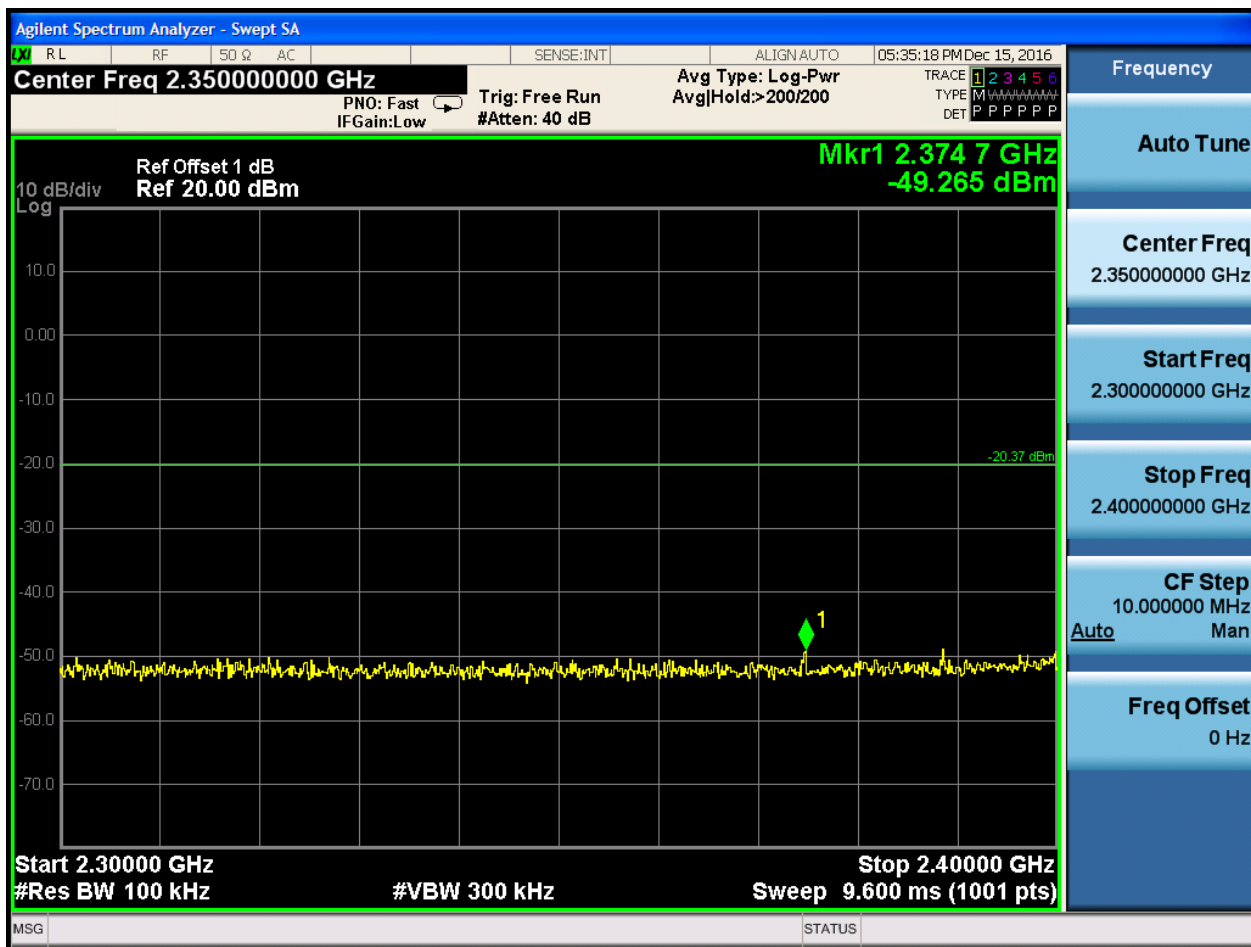


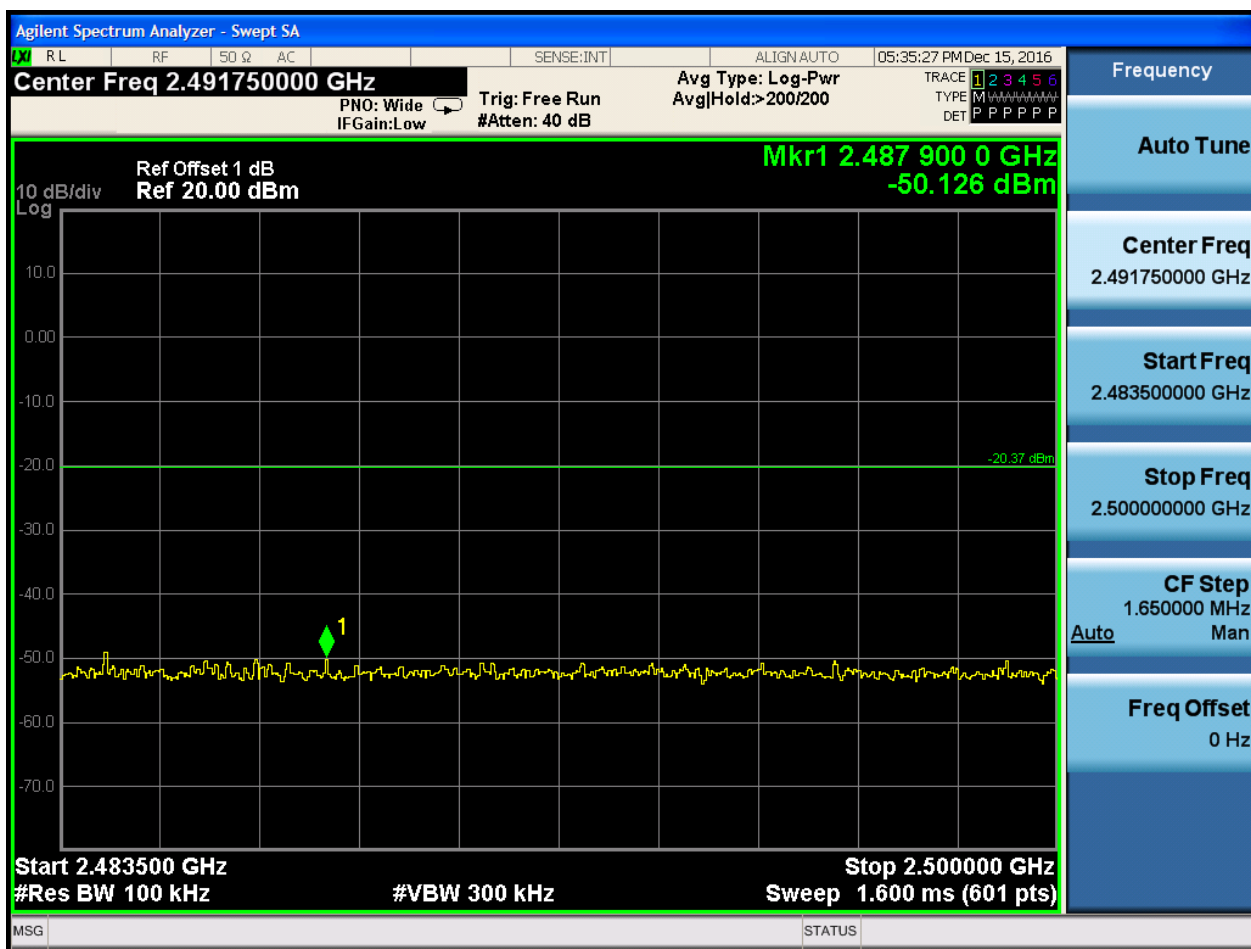
Puw:









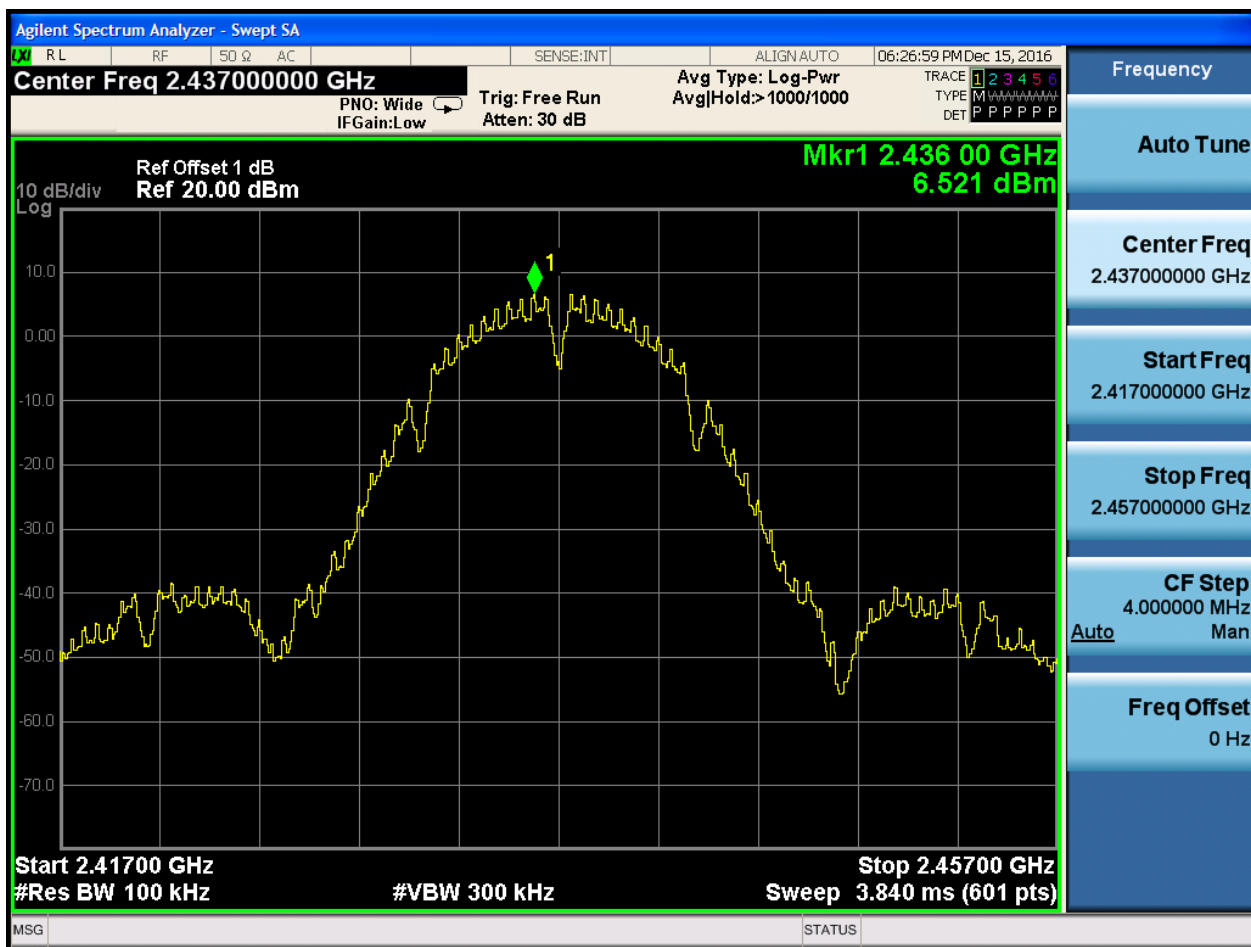






2.4 11B_M@Ant 2

Pref:





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω DC SENSE:INT ALIGN AUTO 08:40:12 AM Dec 19, 2016

Start Freq 9.000 kHz Avg Type: Log-Pwr PNO: Close Trig: Free Run IFGain:Low #Atten: 50 dB

TRACE 1 2 3 4 5 6 TYPE M N N N N N N DET P N N N N N N

Ref Offset 1 dB Ref 17.00 dBm Mkr1 13.700 kHz -60.307 dBm

10 dB/div Log

7.00 -3.00 -13.0 -23.0 -33.0 -43.0 -53.0 -63.0 -73.0

Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Stop 150.00 kHz Sweep 134.8 ms (601 pts)

MSG STATUS DC Coupled

Frequency

Auto Tune

Center Freq 79.500 kHz

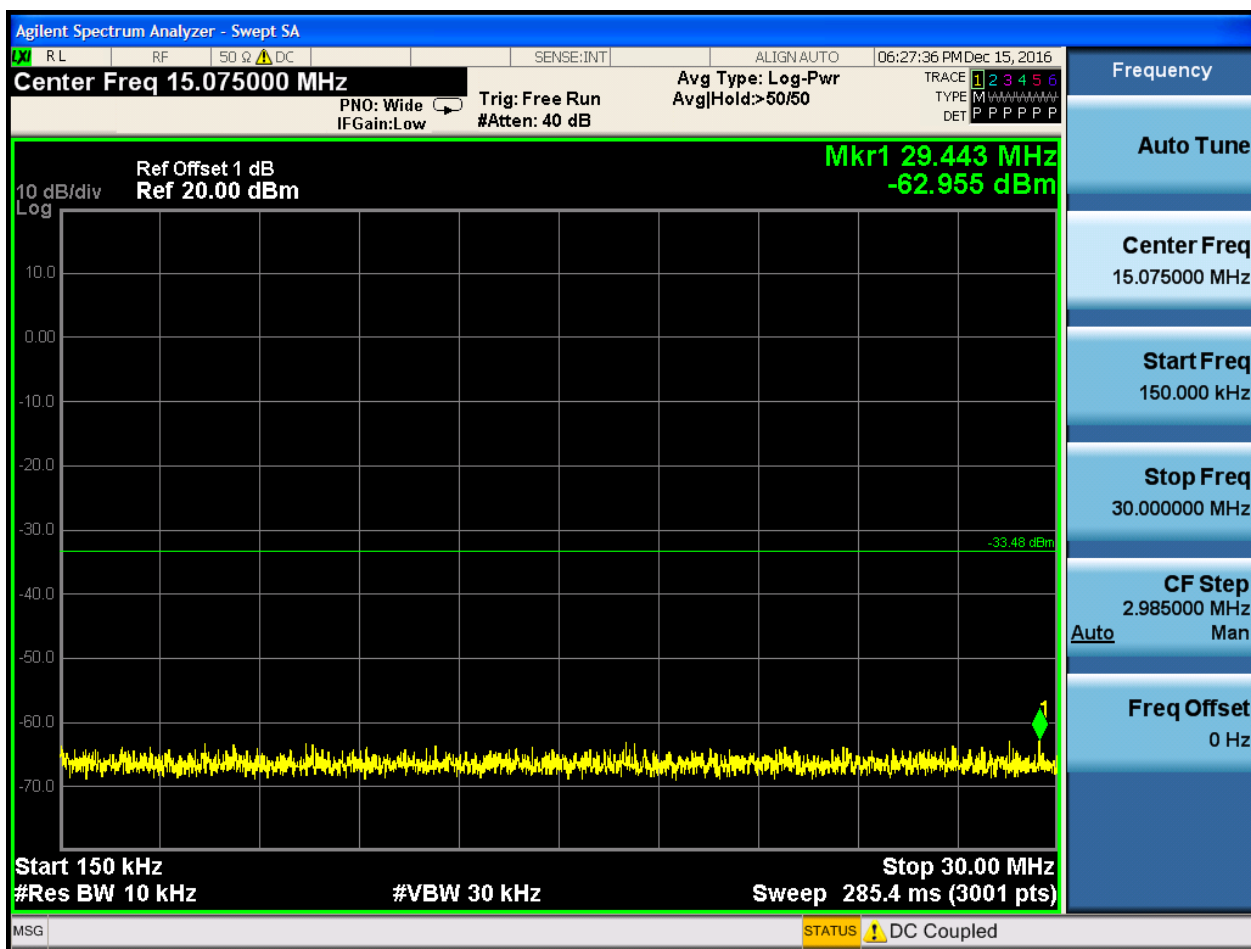
Start Freq 9.000 kHz

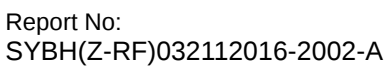
Stop Freq 150.000 kHz

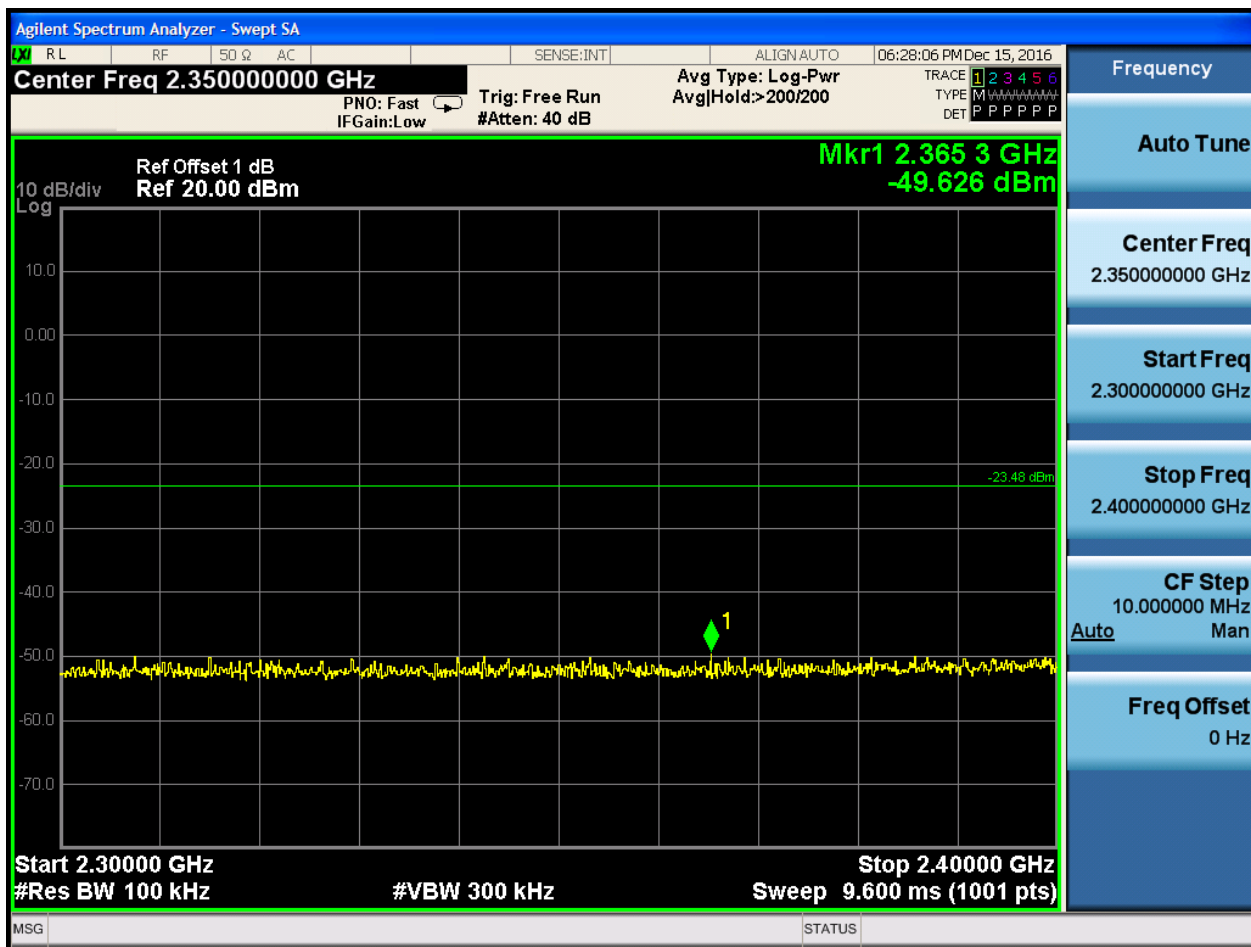
CF Step 14.100 kHz Man

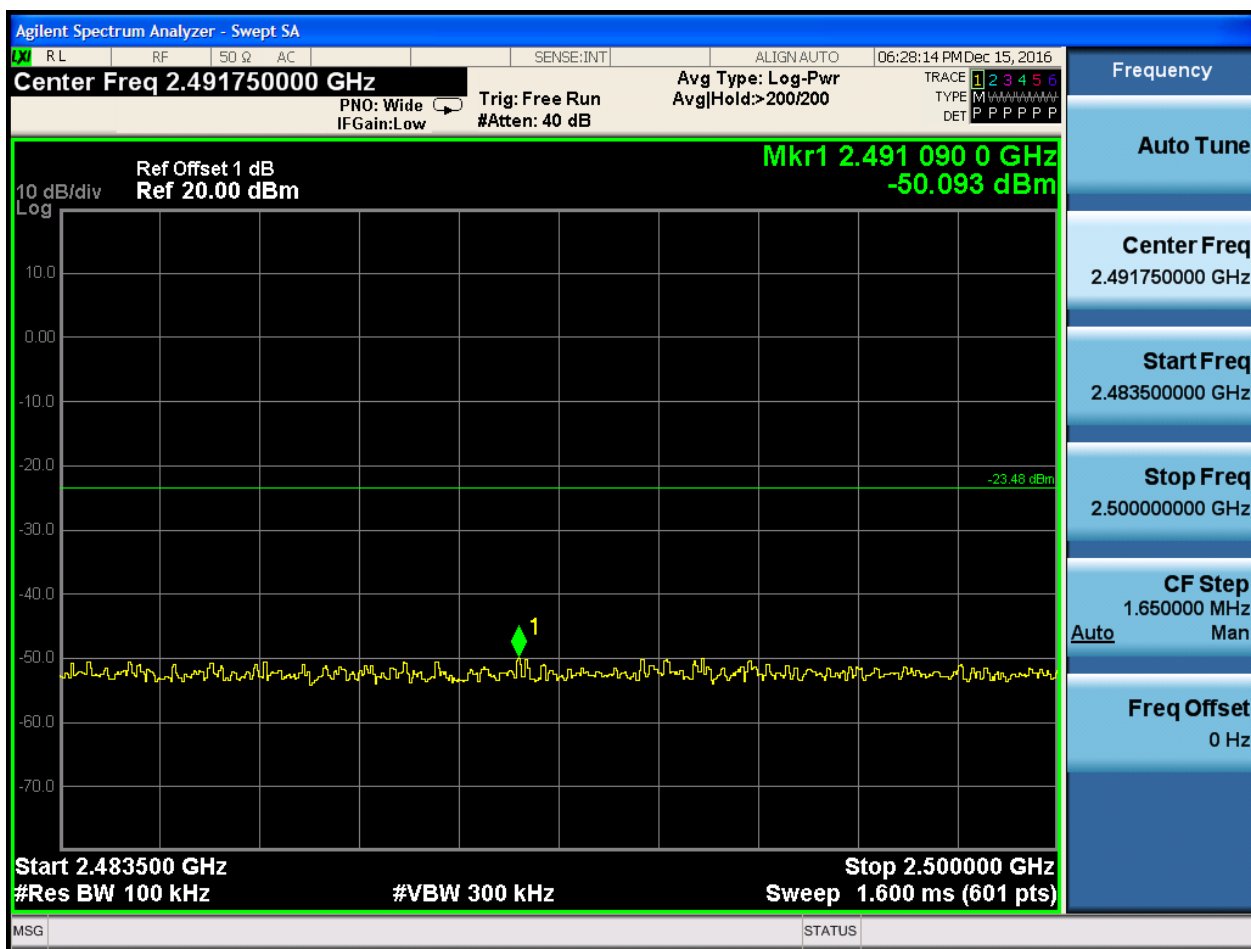
Auto

Freq Offset 0 Hz







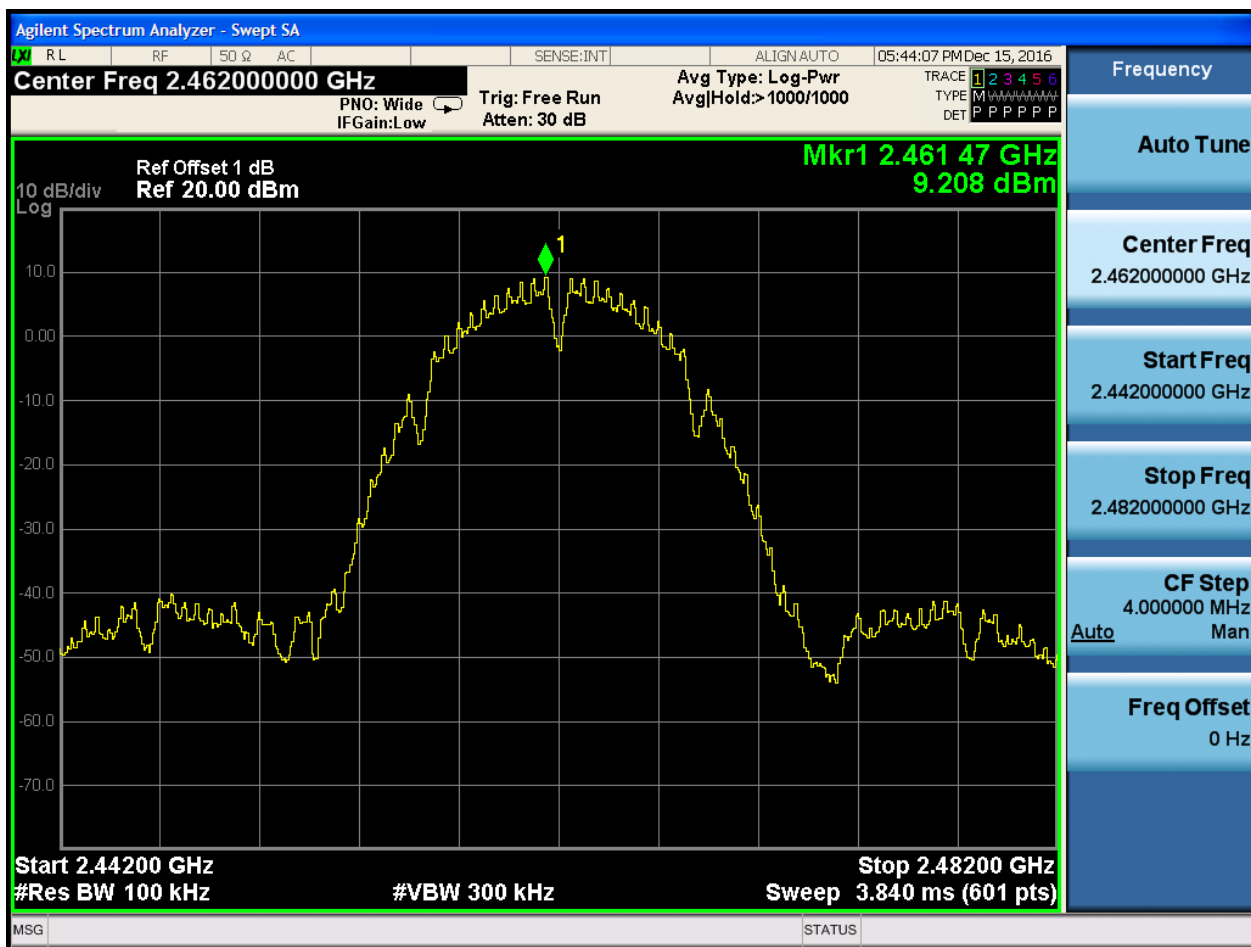






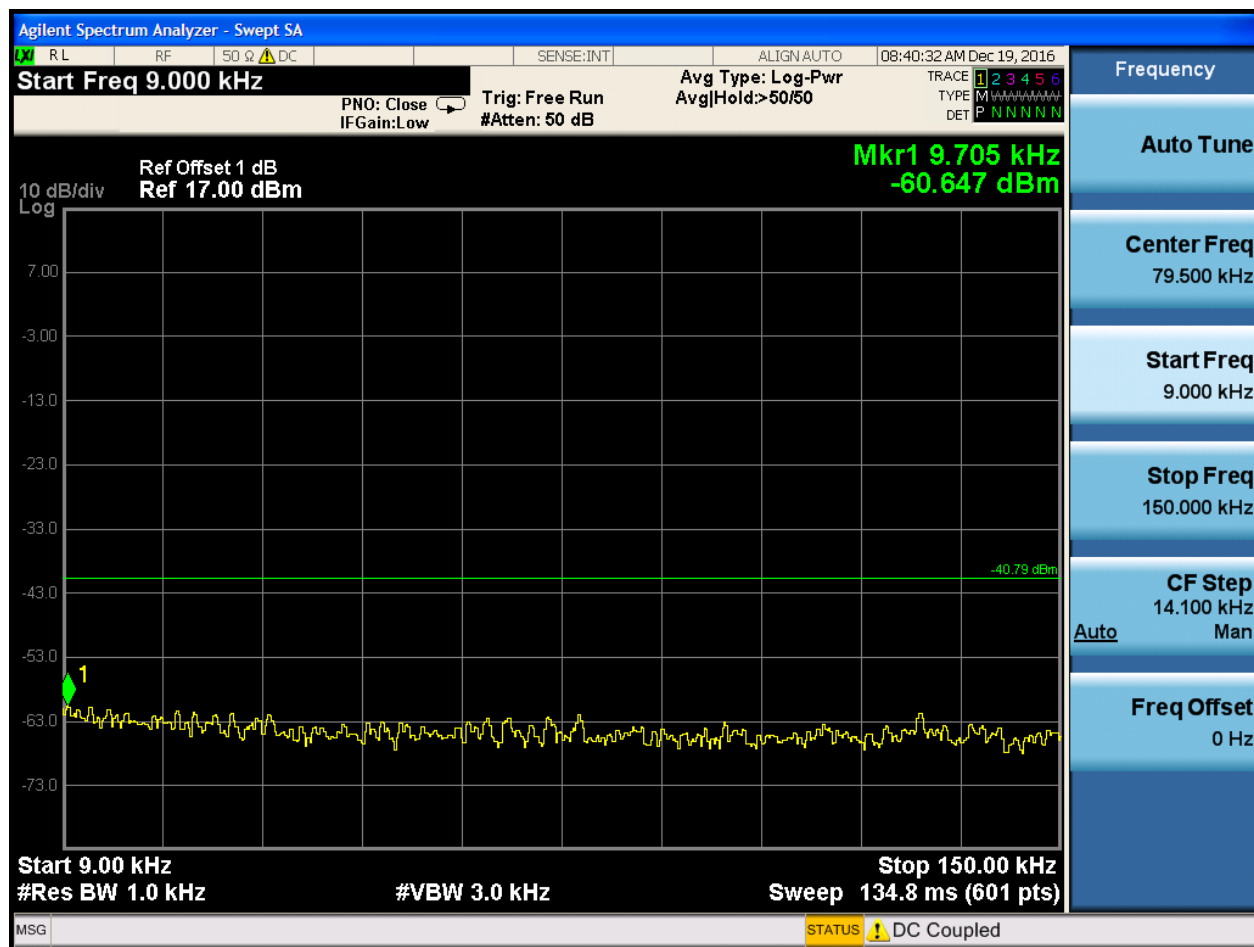
2.5 11B_H@Ant 1

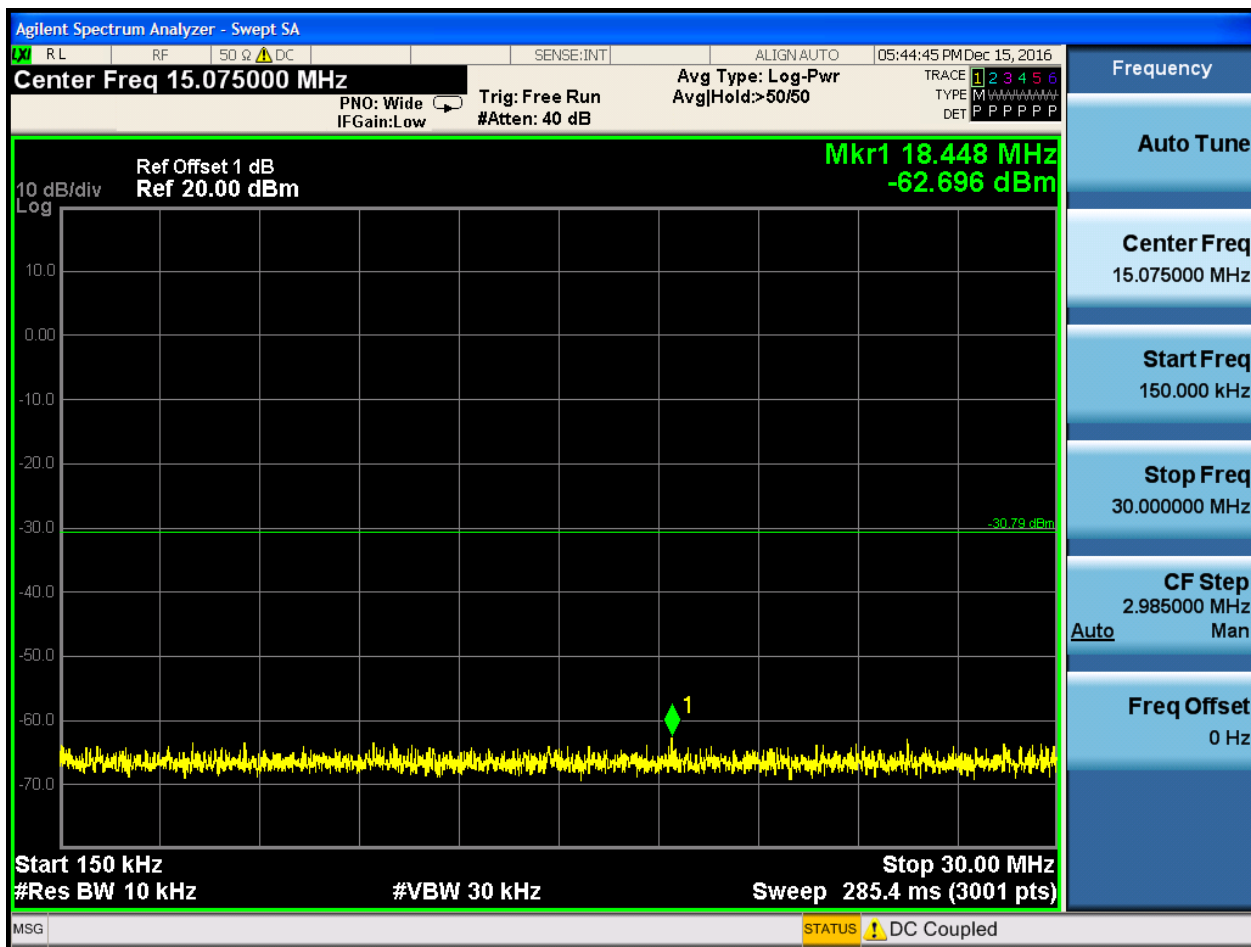
Pref:

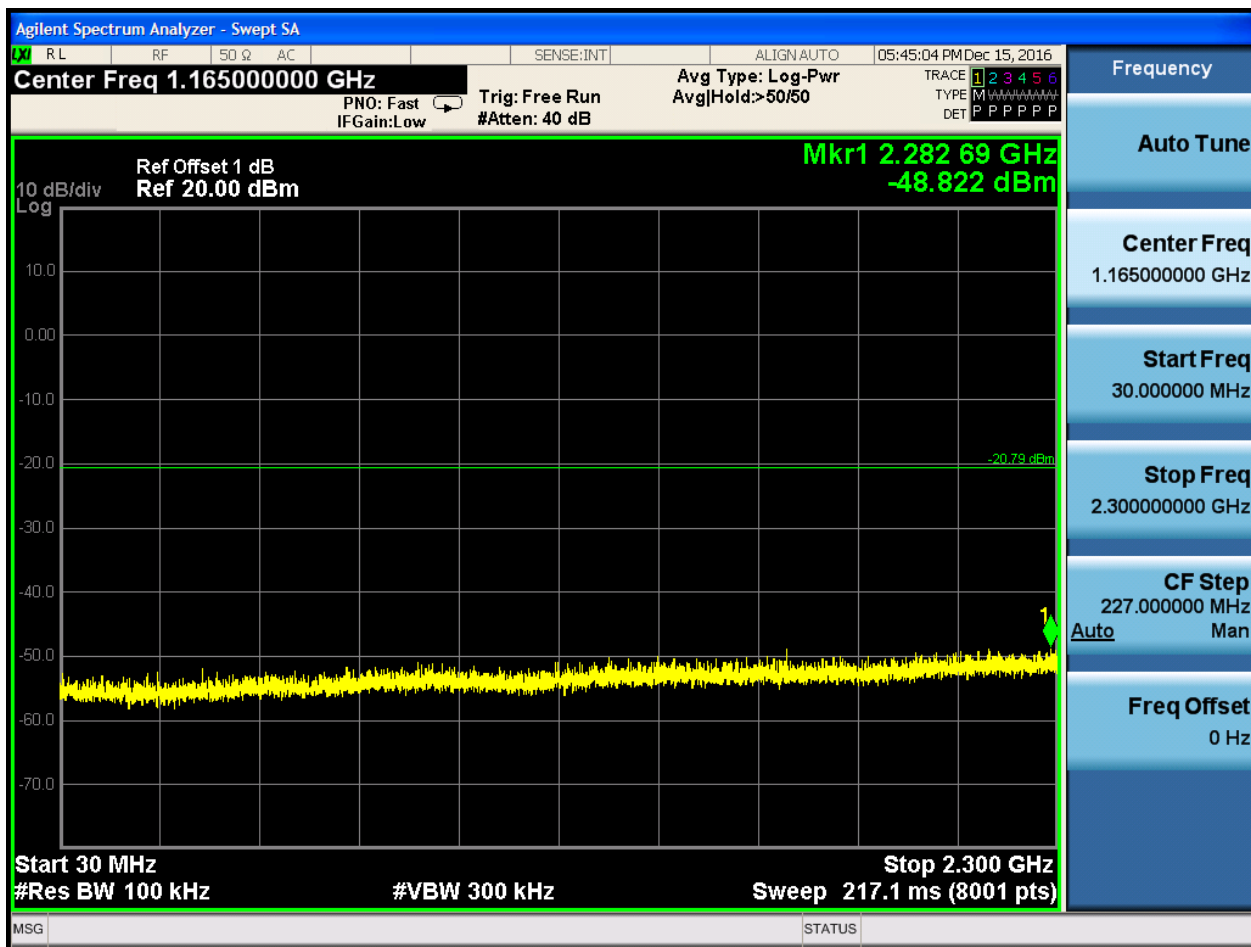


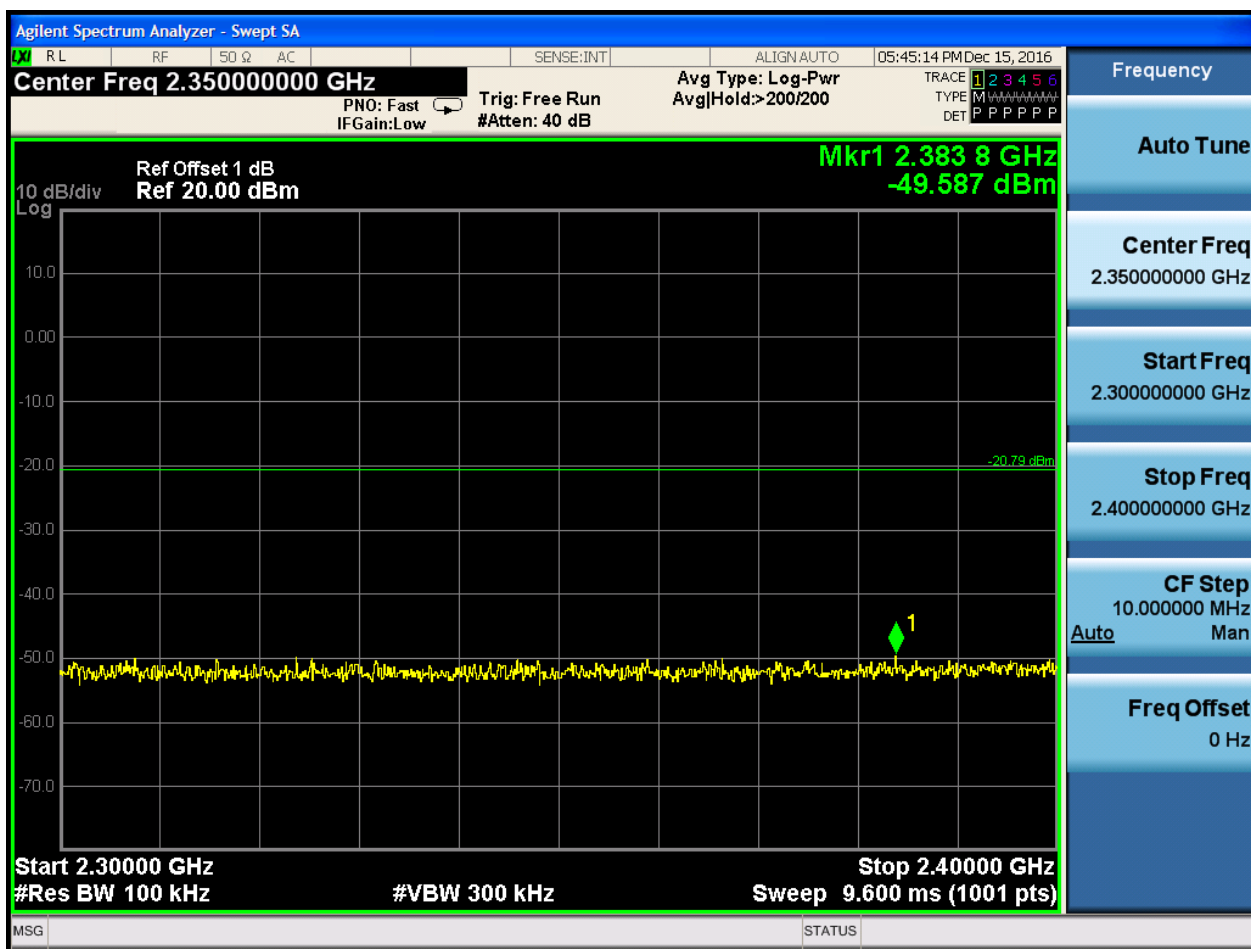


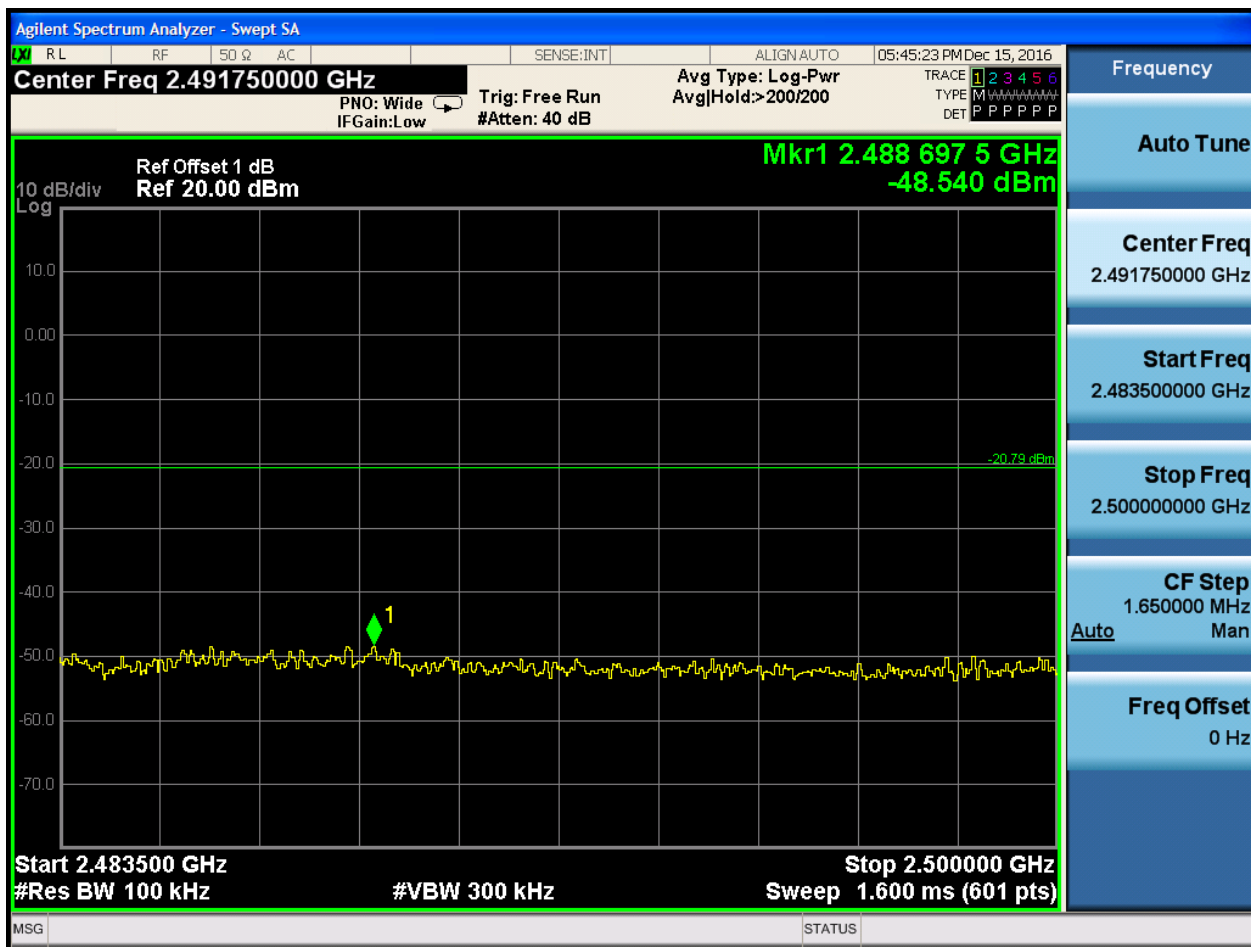
Puw:









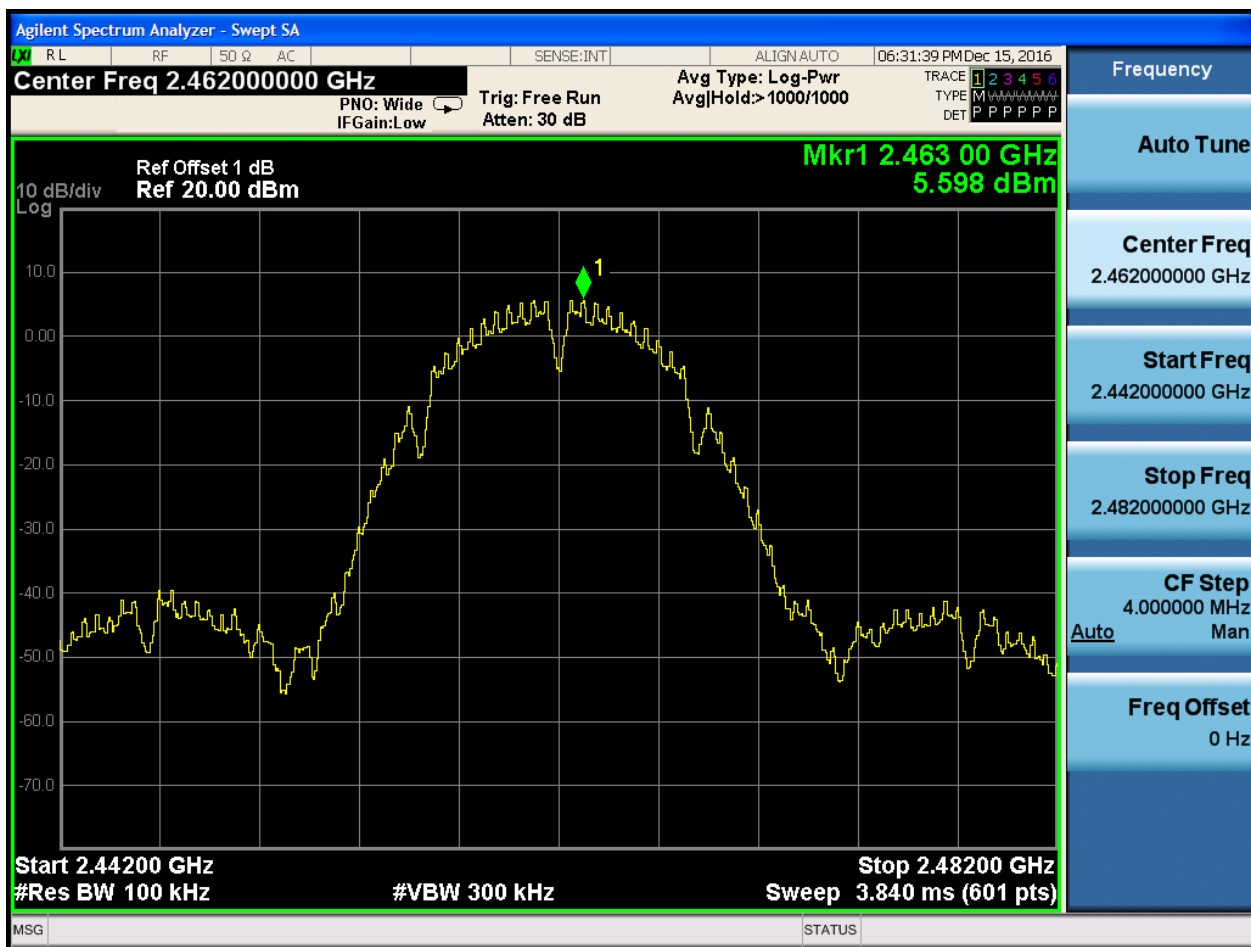






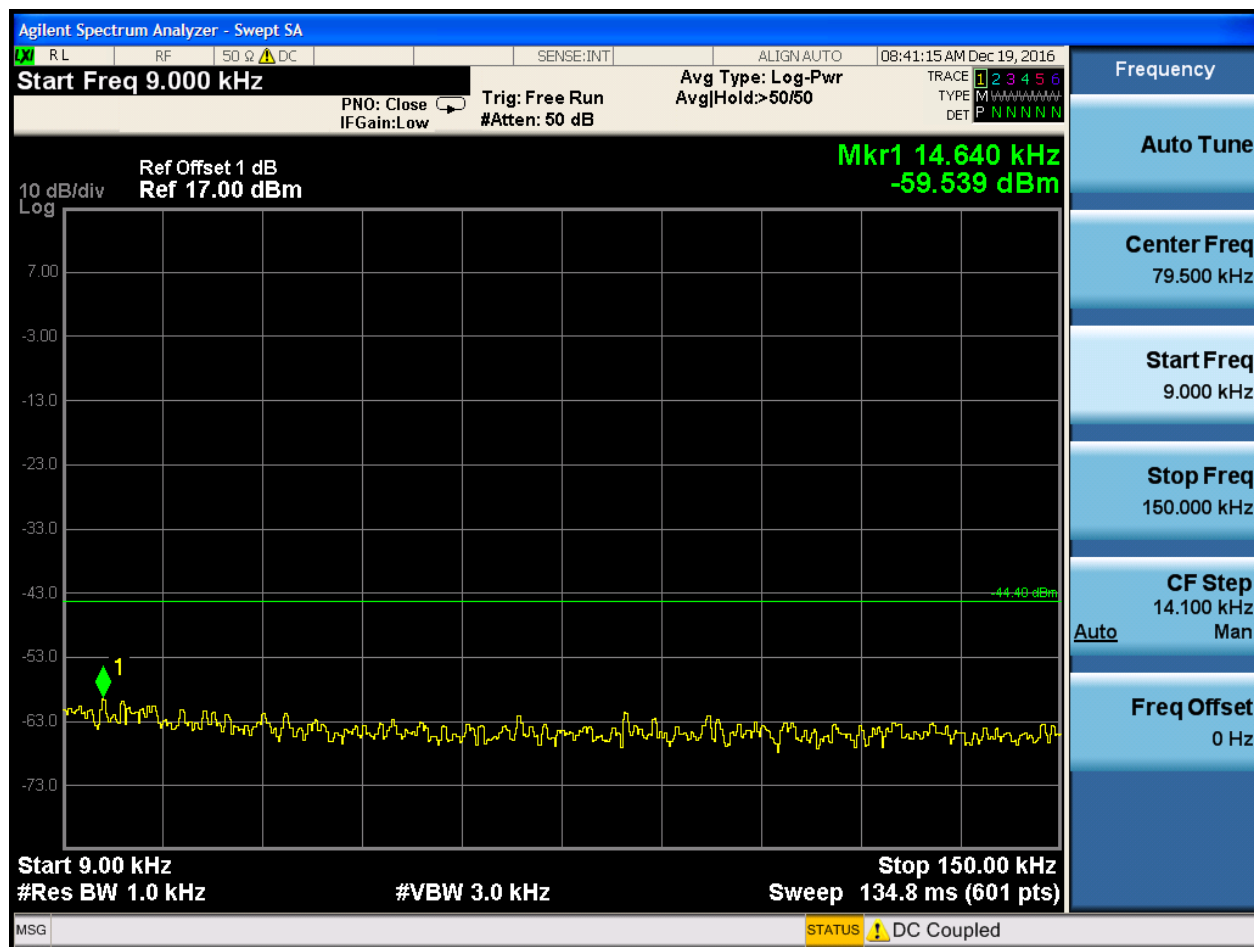
2.6 11B_H@Ant 2

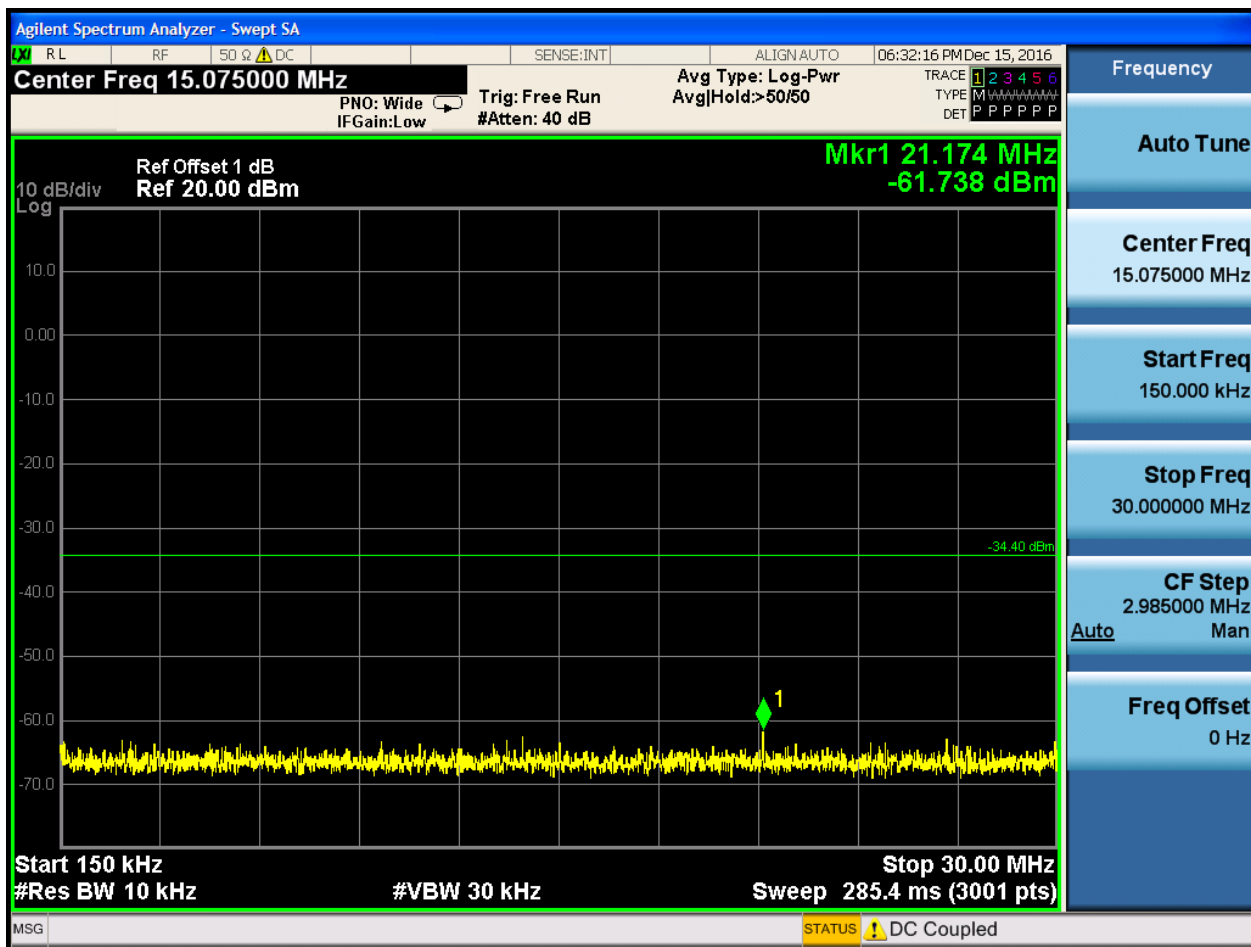
Pref:

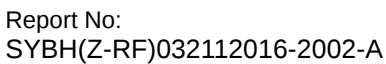


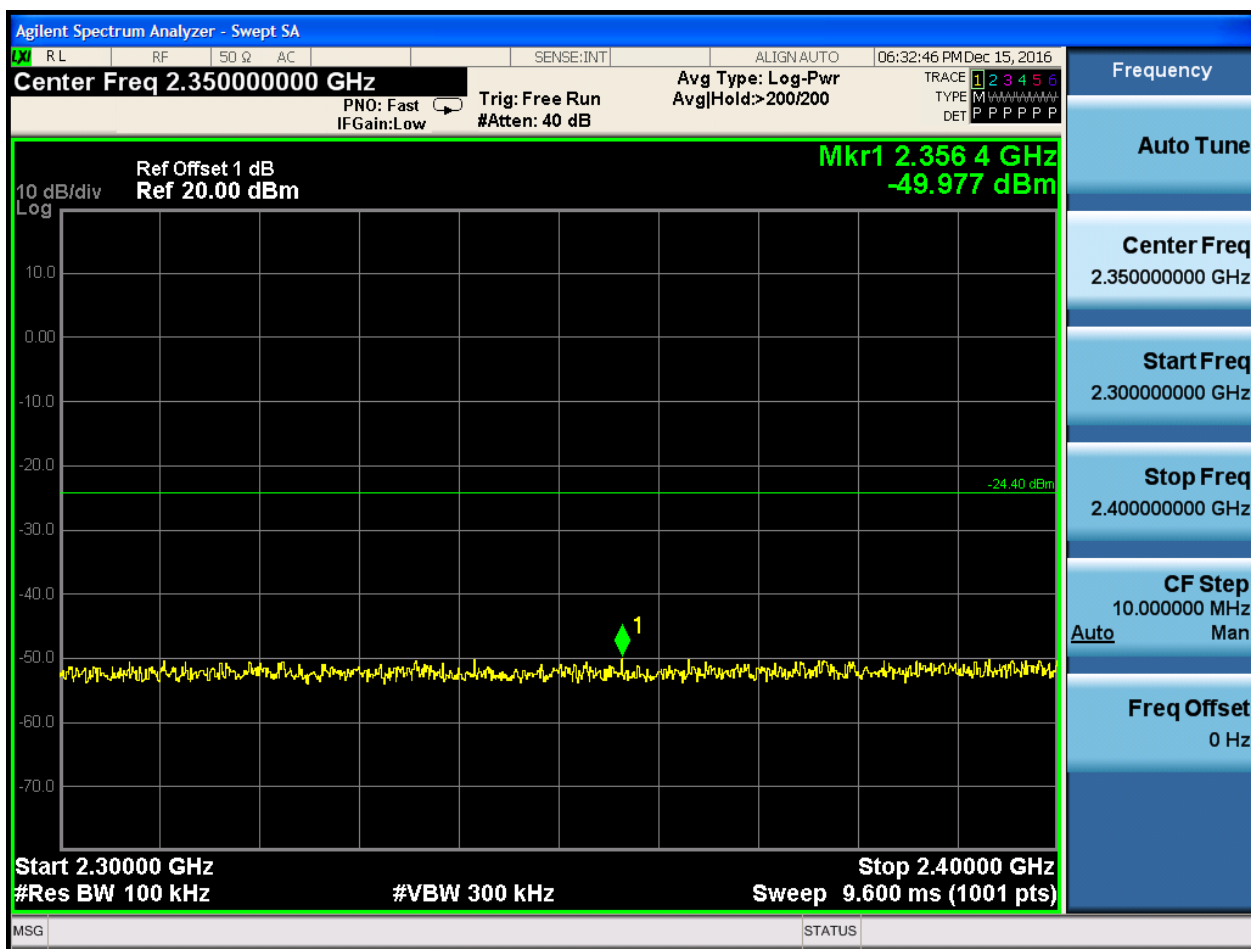


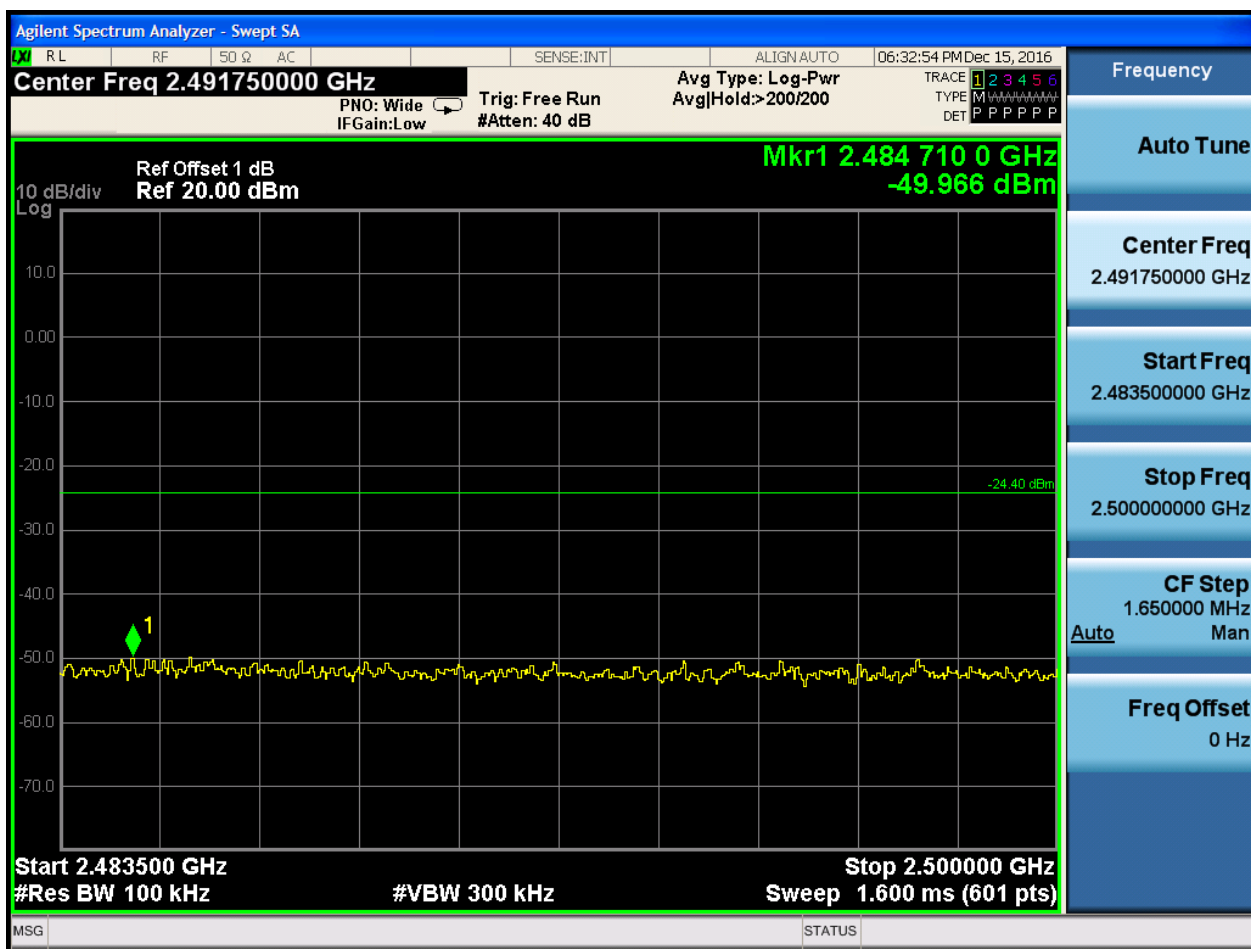
Puw:









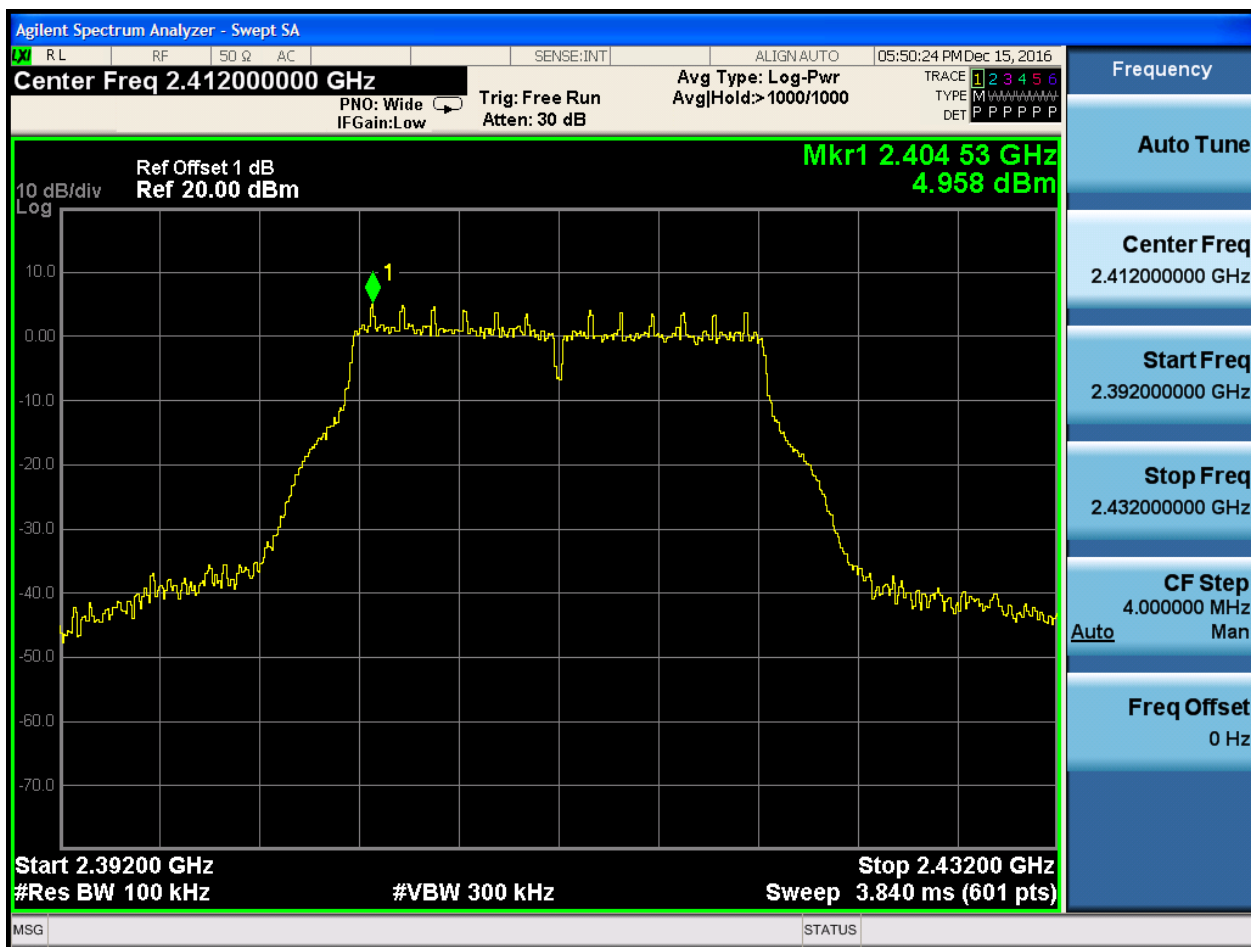






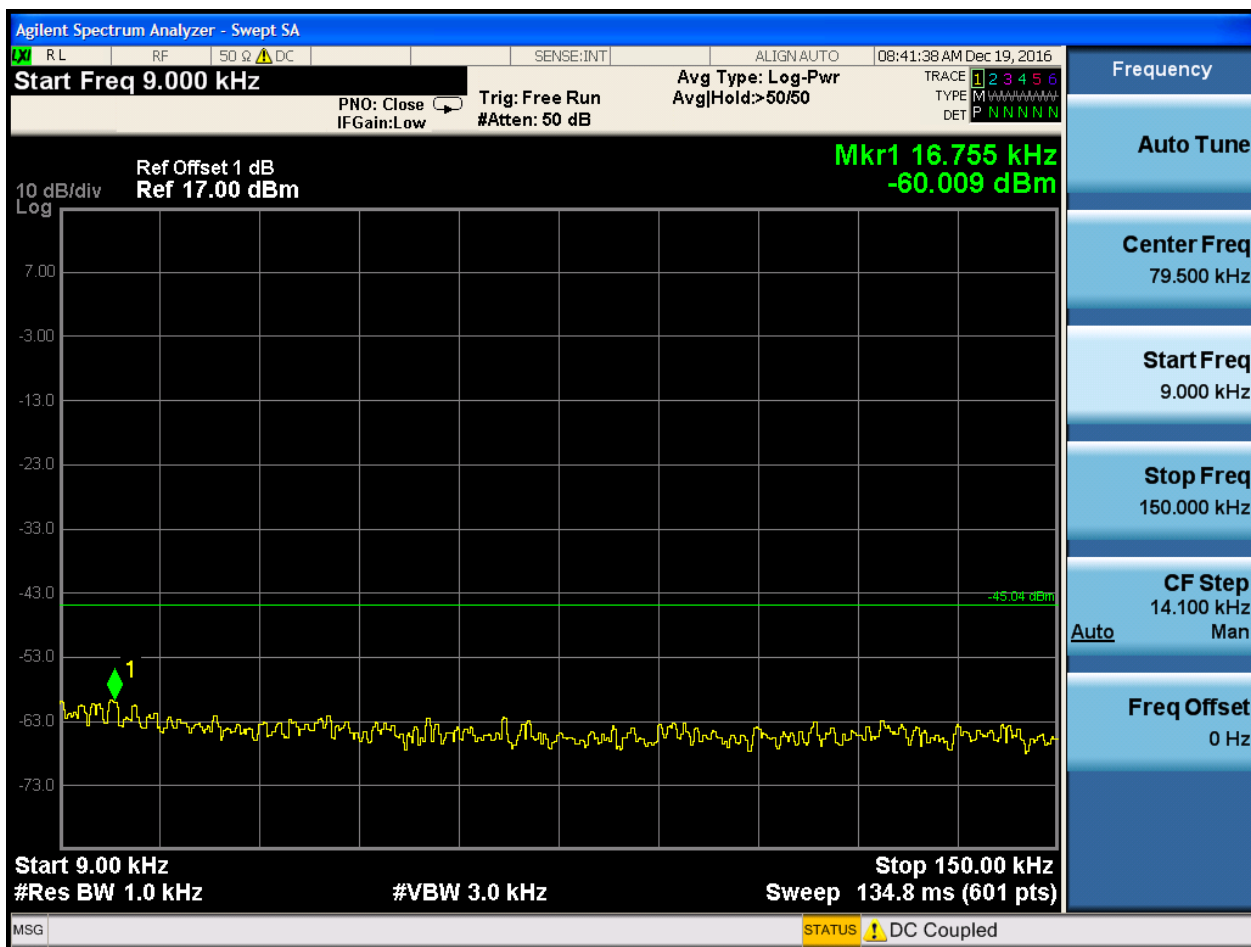
2.7 11G_L@Ant 1

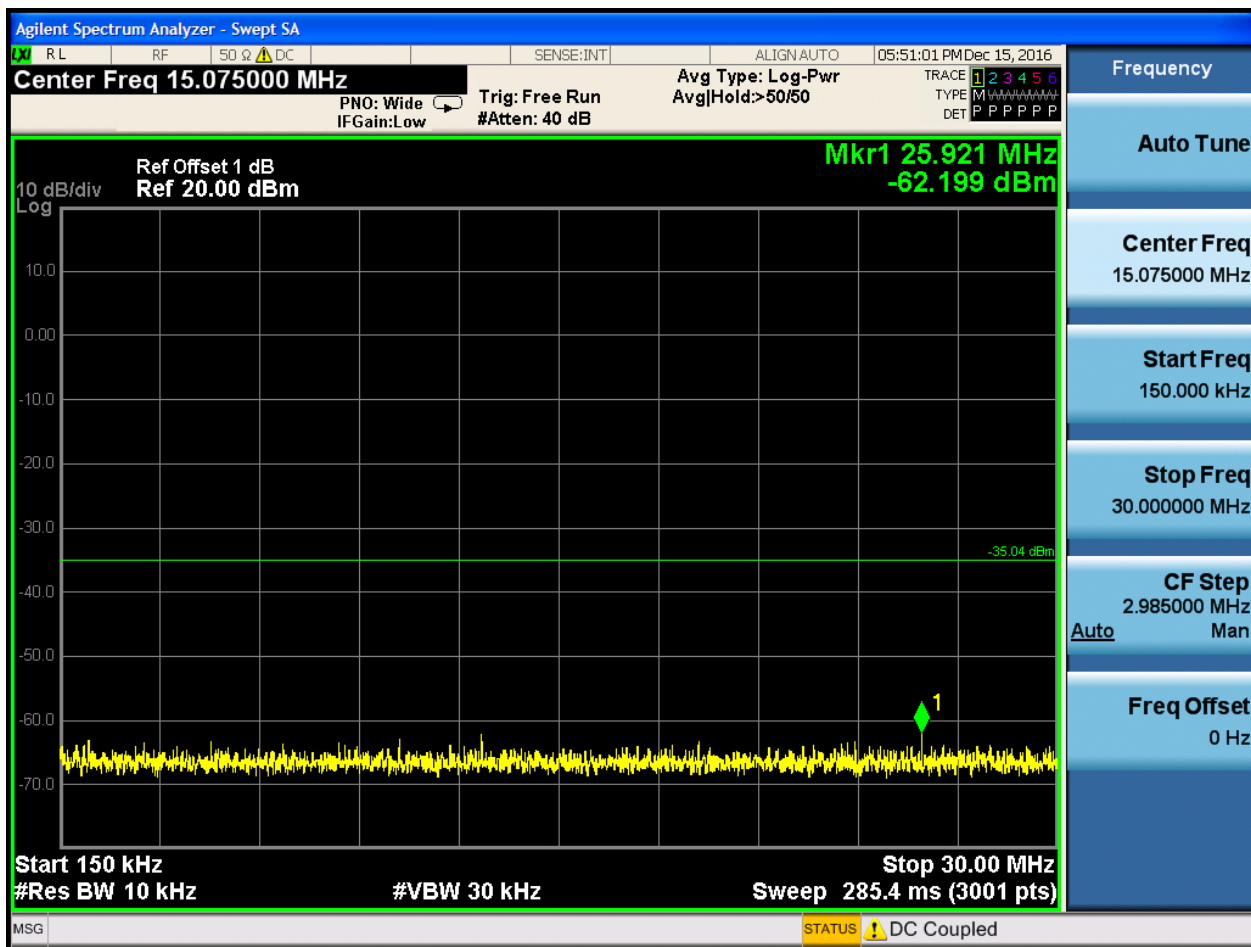
Pref:

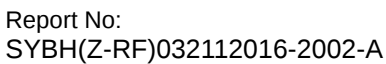


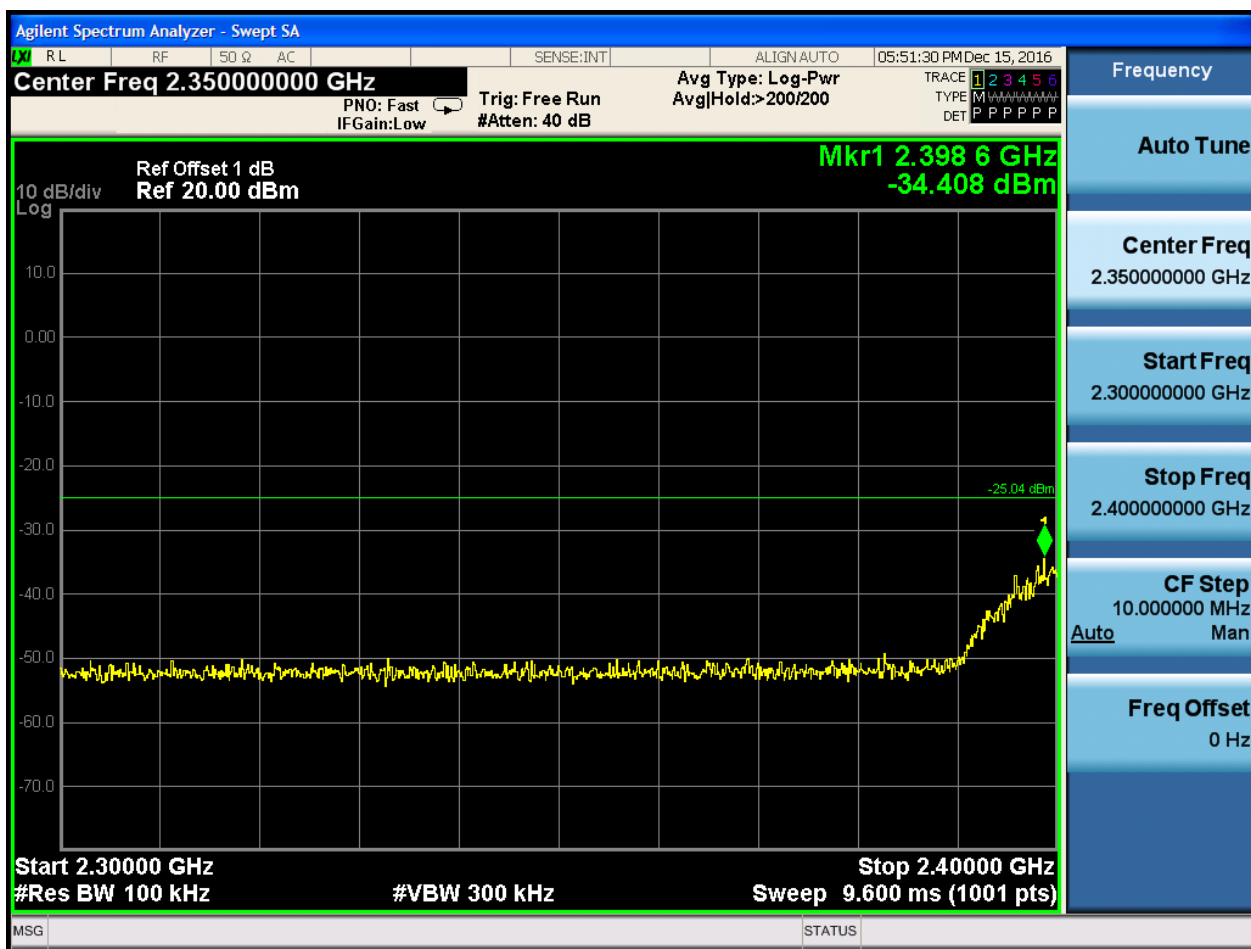


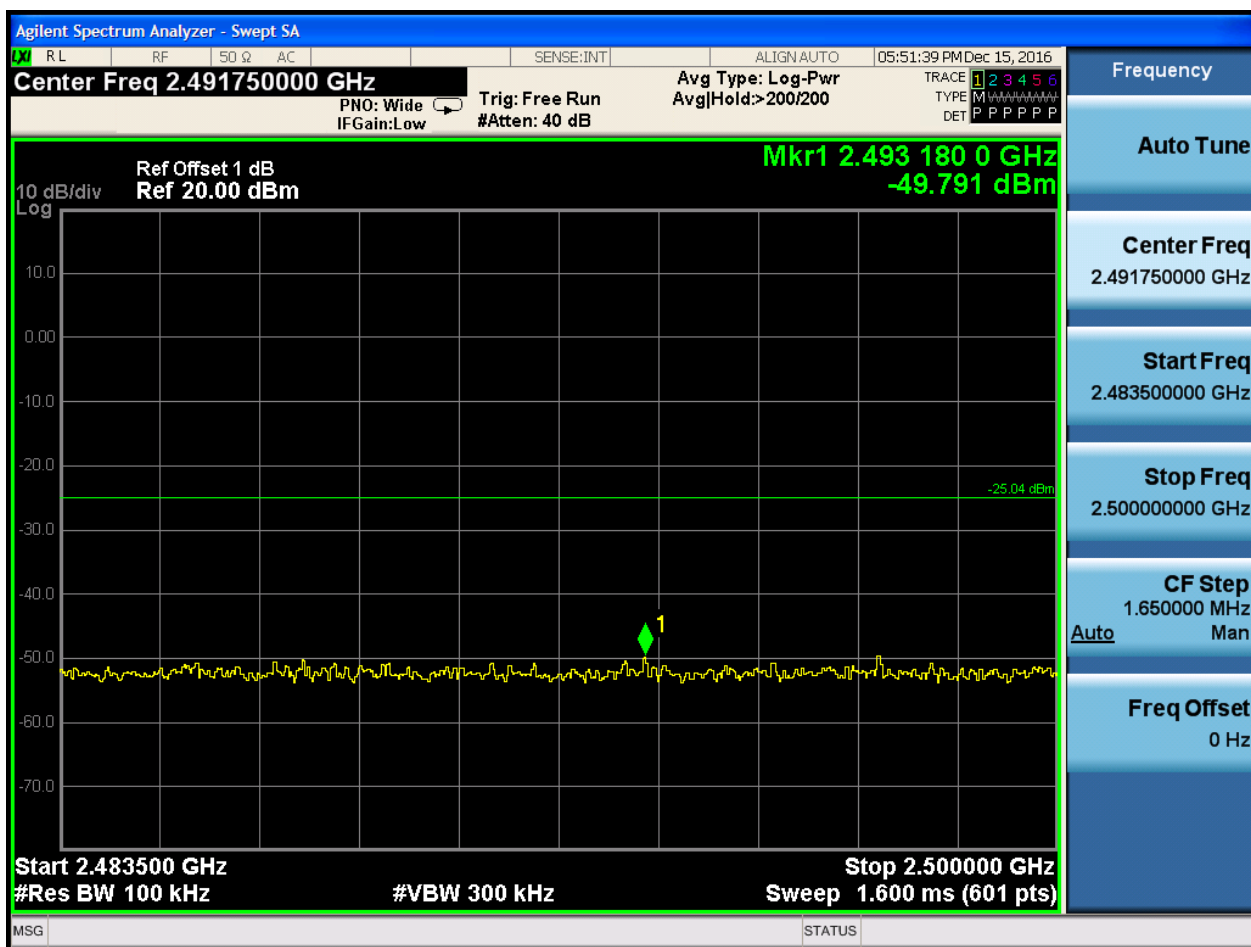
Puw:

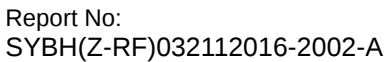








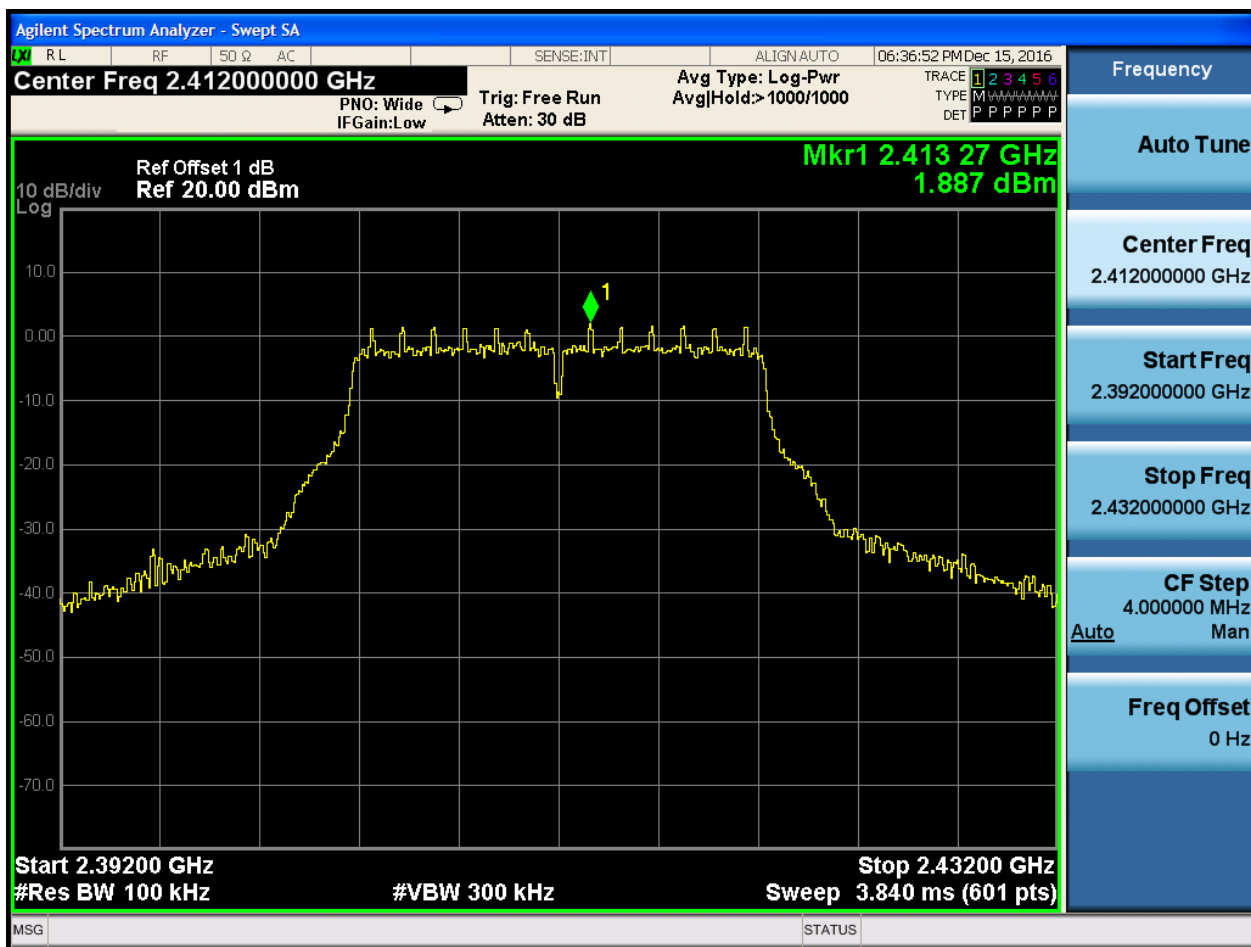






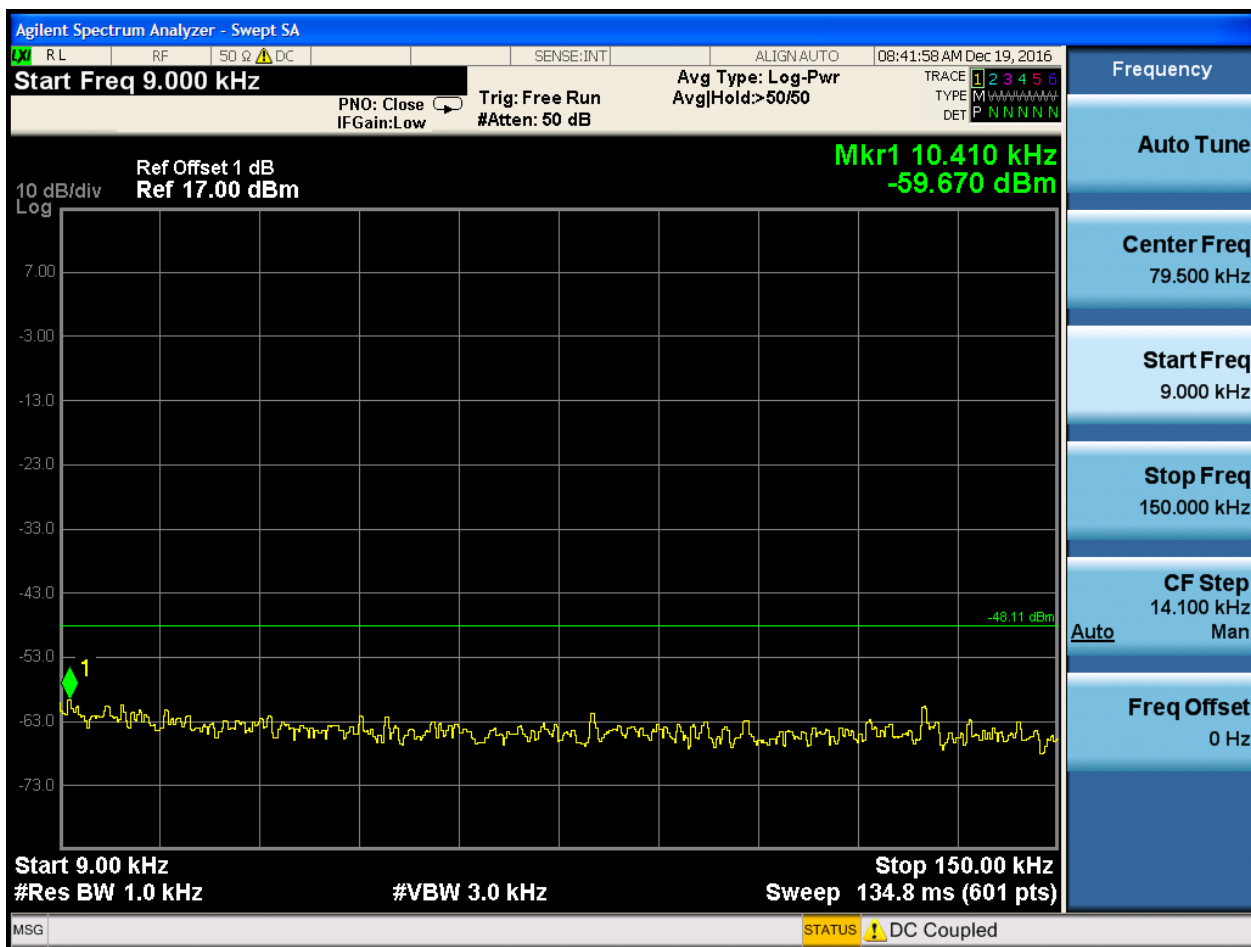
2.8 11G_L@Ant 2

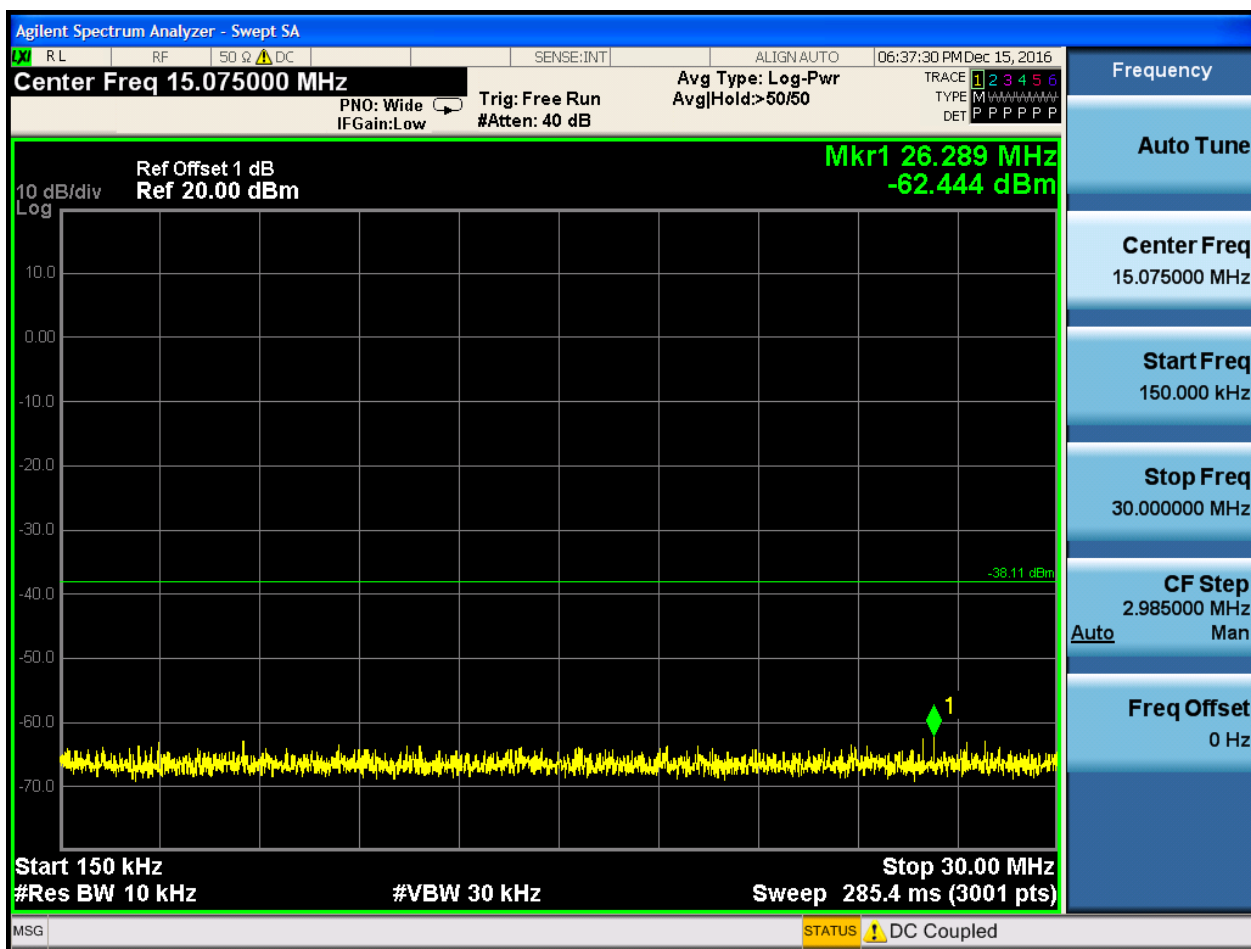
Pref:

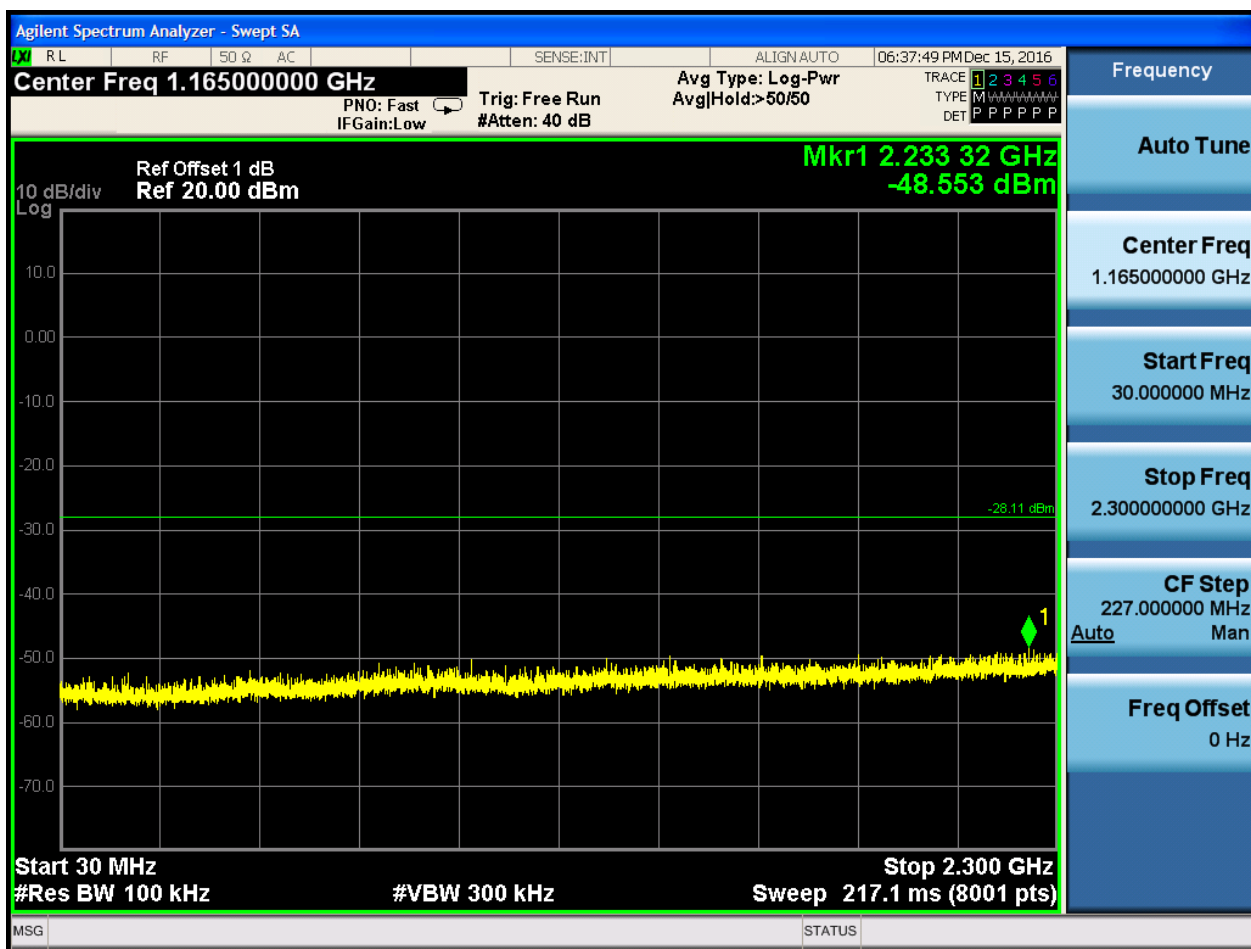


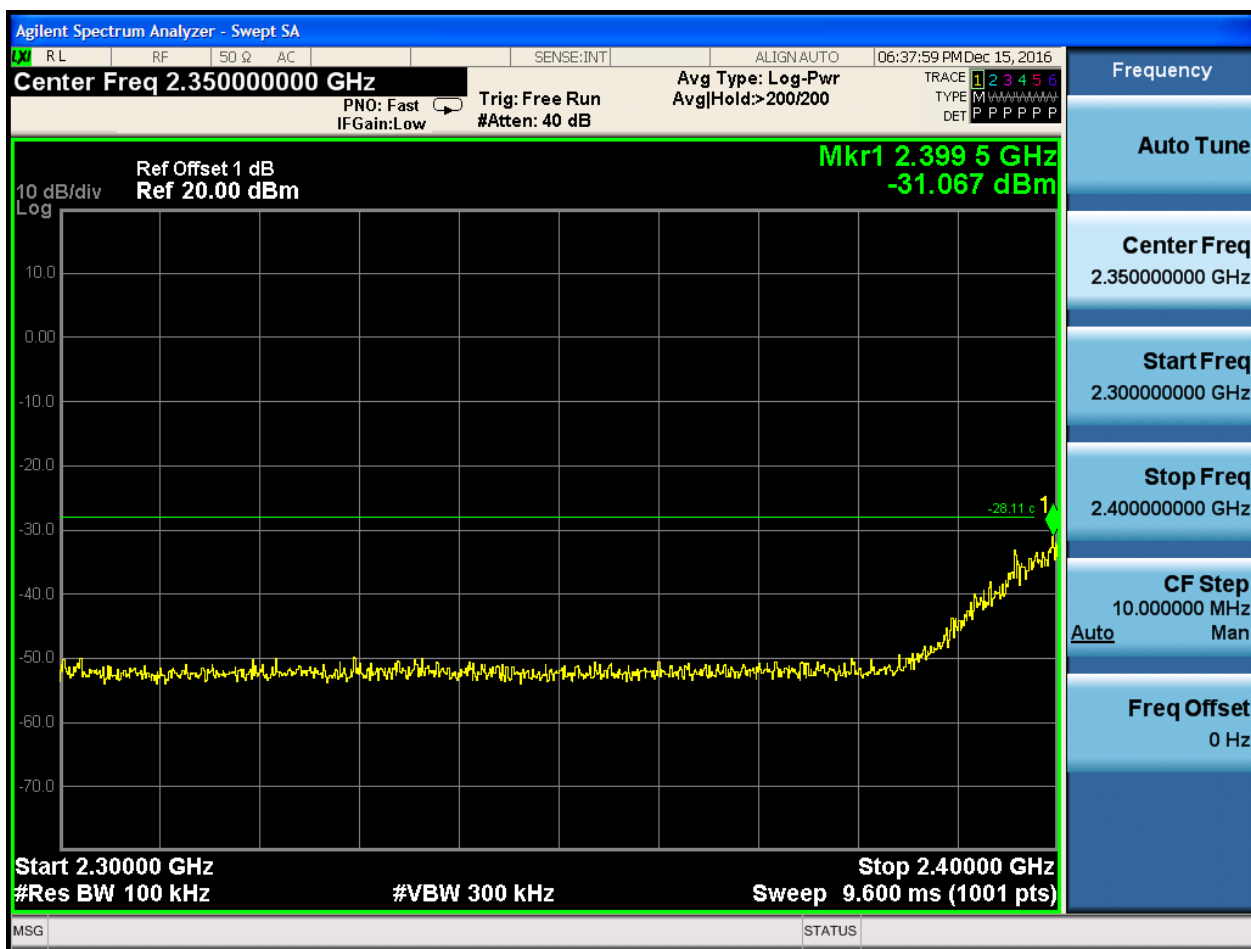


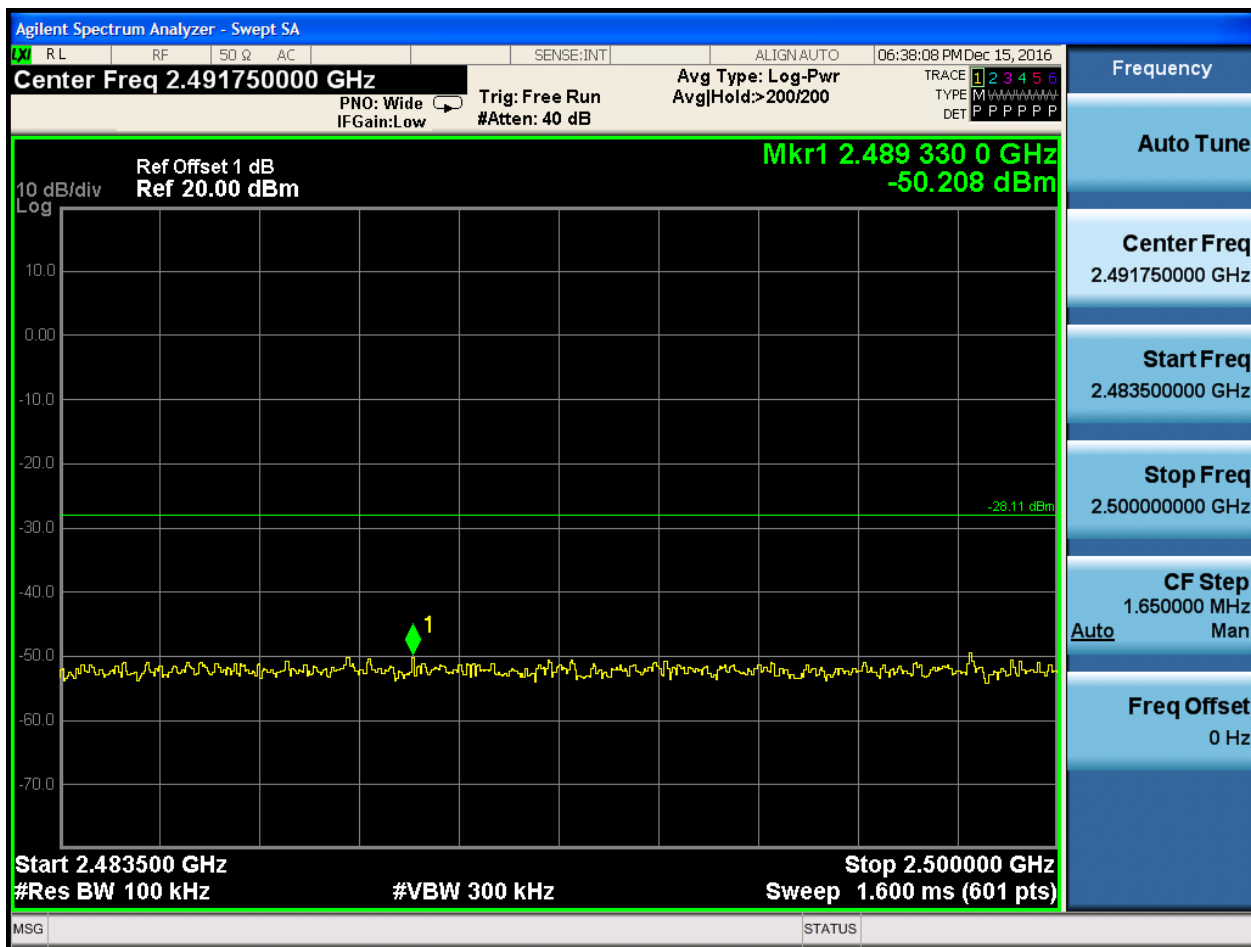
Puw:









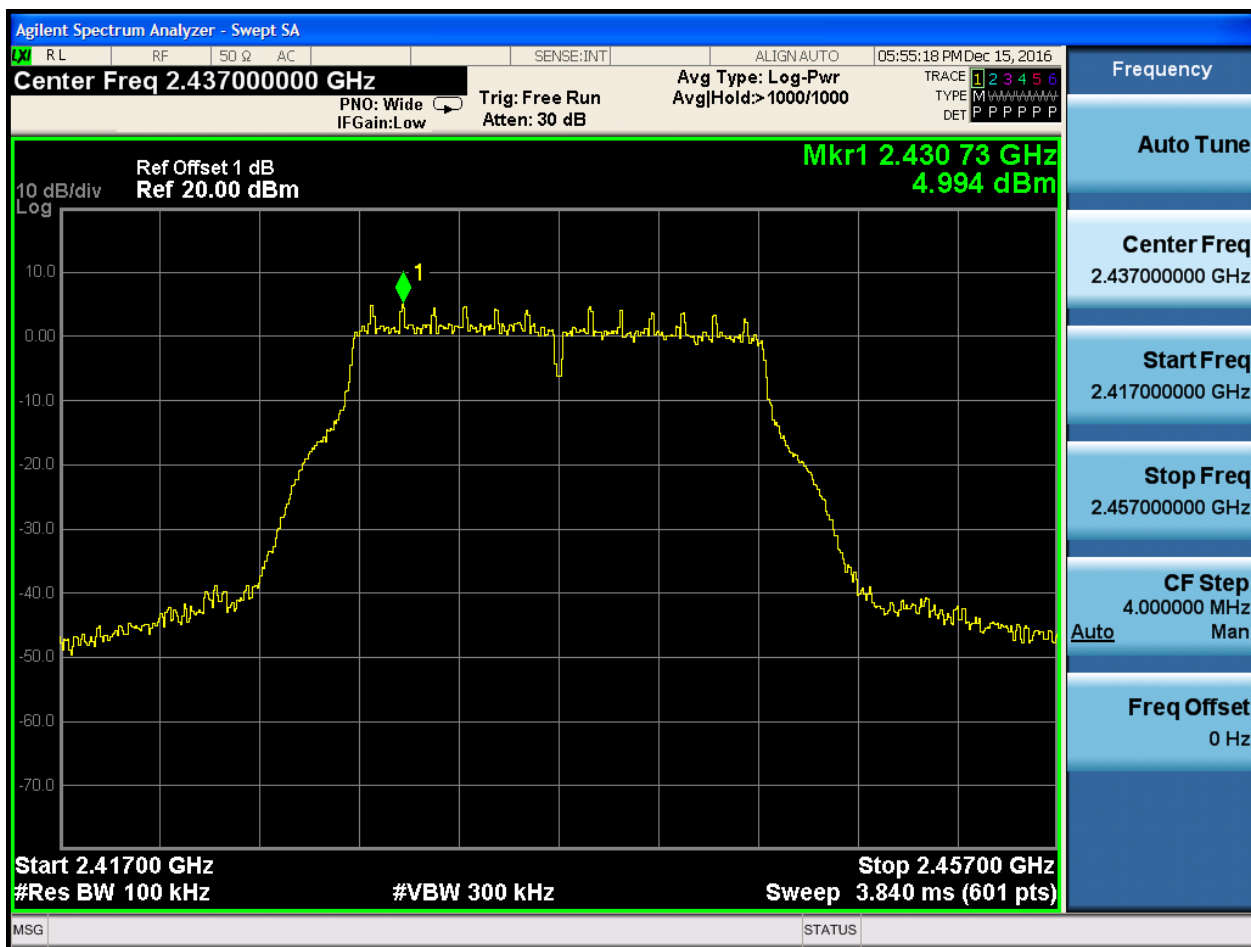






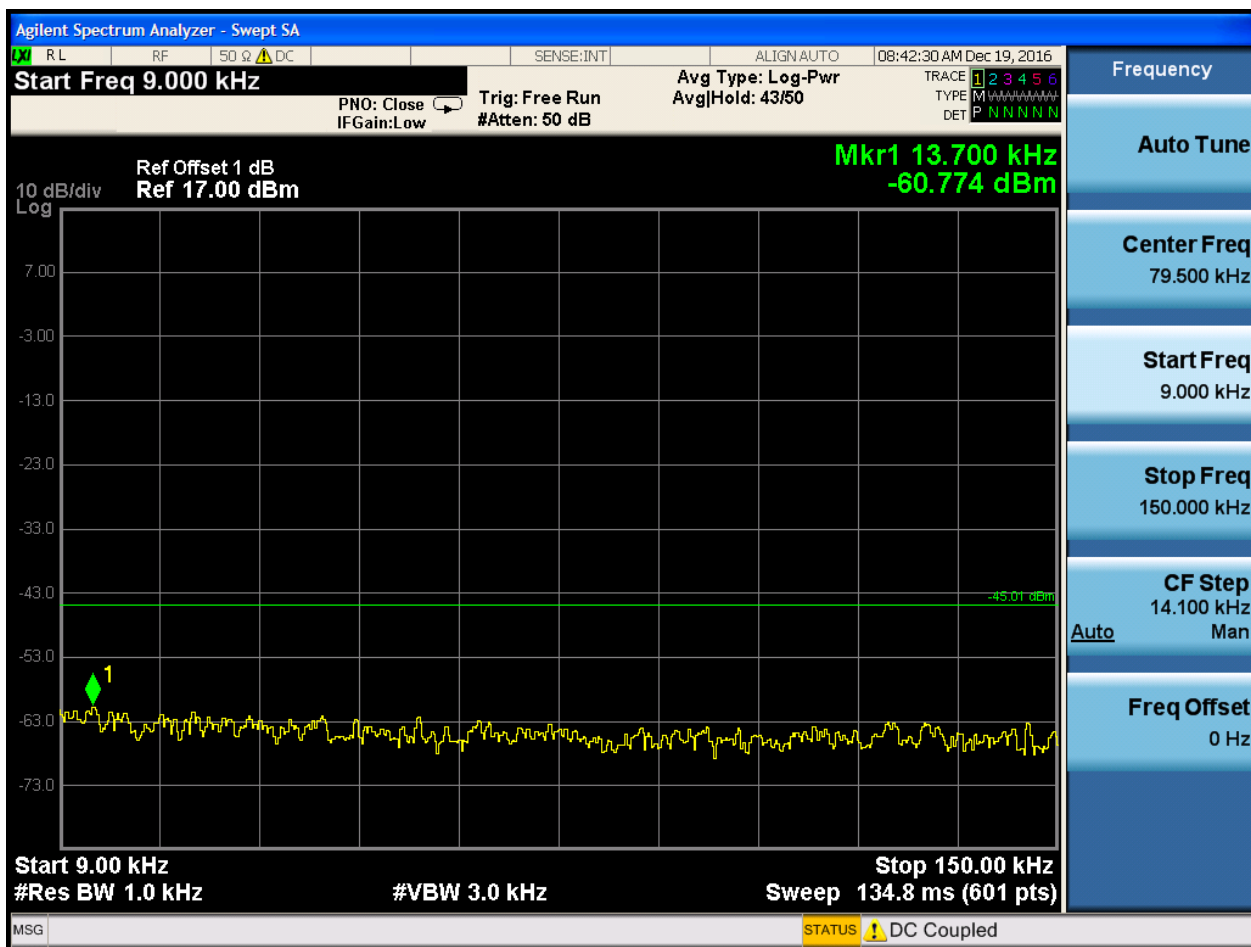
2.9 11G_M@Ant 1

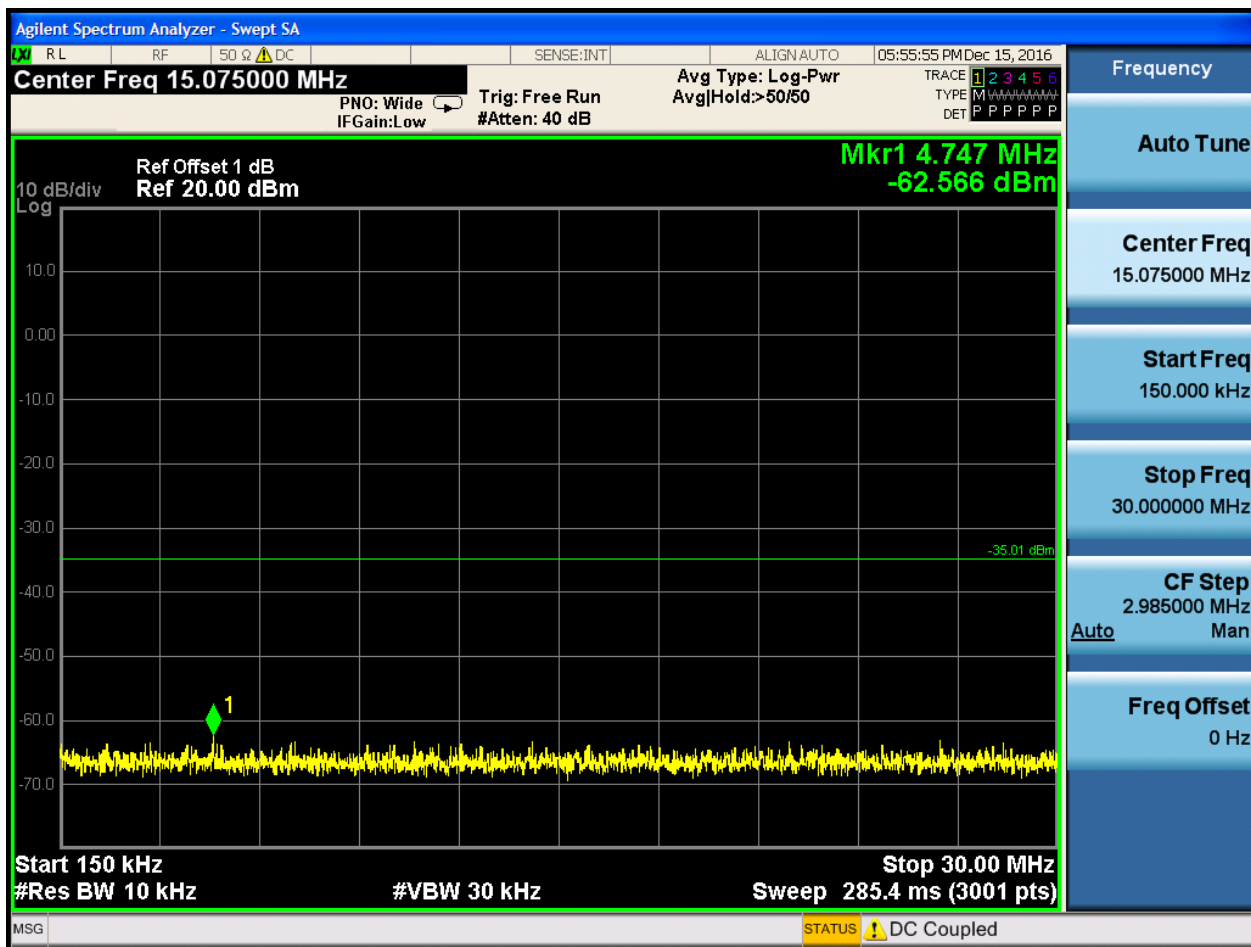
Pref:

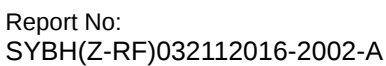


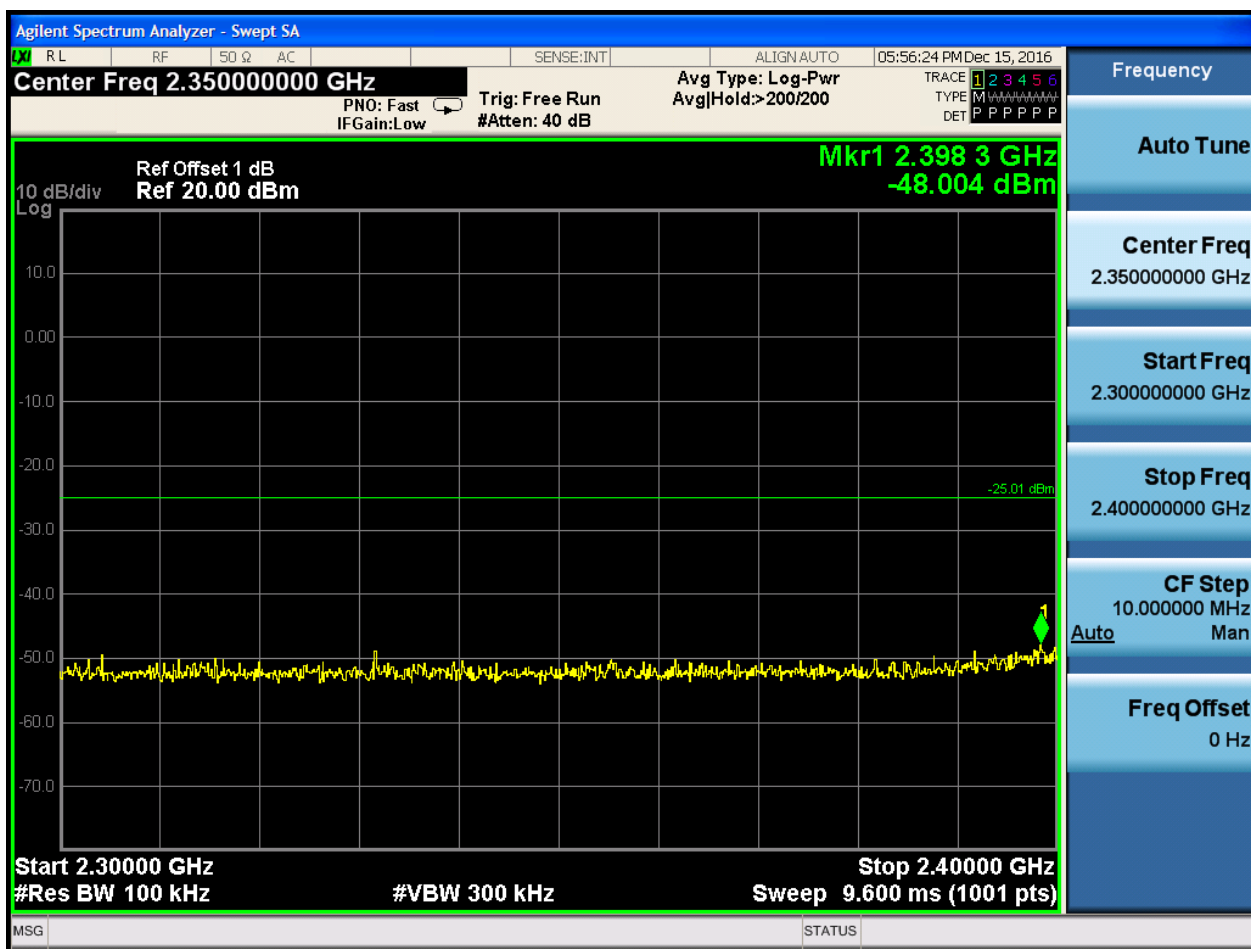


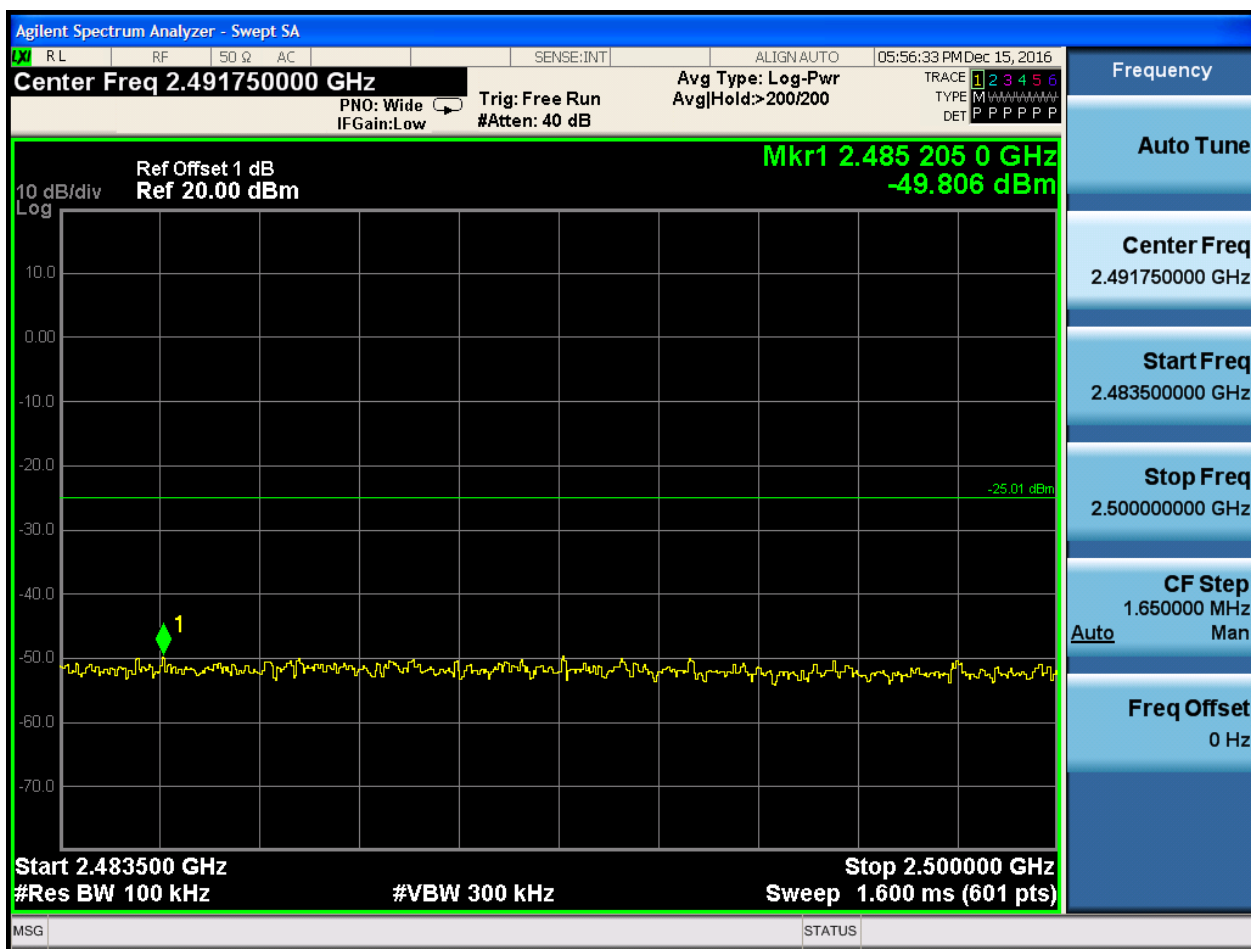
Puw:









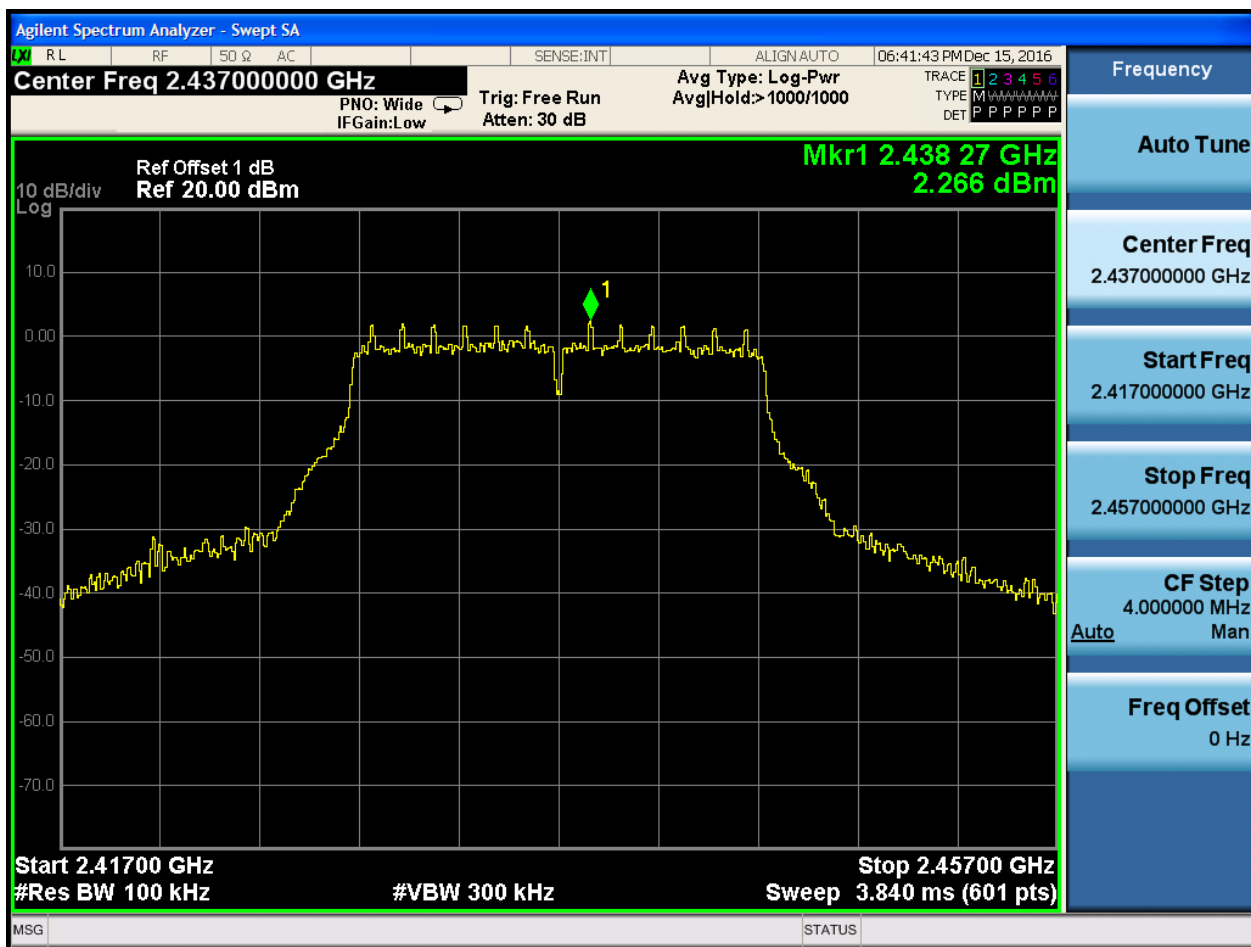






2.10 11G_M@Ant 2

Pref:





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω DC SENSE:INT ALIGN AUTO 08:42:47 AM Dec 19, 2016

Start Freq 9.000 kHz Avg Type: Log-Pwr PNO: Close Trig: Free Run IFGain:Low #Atten: 50 dB

TRACE 1 2 3 4 5 6 TYPE M N N N N N N N DET P N N N N N N

Ref Offset 1 dB Ref 17.00 dBm Mkr1 14.170 kHz -60.492 dBm

10 dB/div Log

7.00 -3.00 -13.0 -23.0 -33.0 -43.0 -53.0 -63.0 -73.0

Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Stop 150.00 kHz Sweep 134.8 ms (601 pts)

MSG STATUS DC Coupled

Frequency

Auto Tune

Center Freq 79.500 kHz

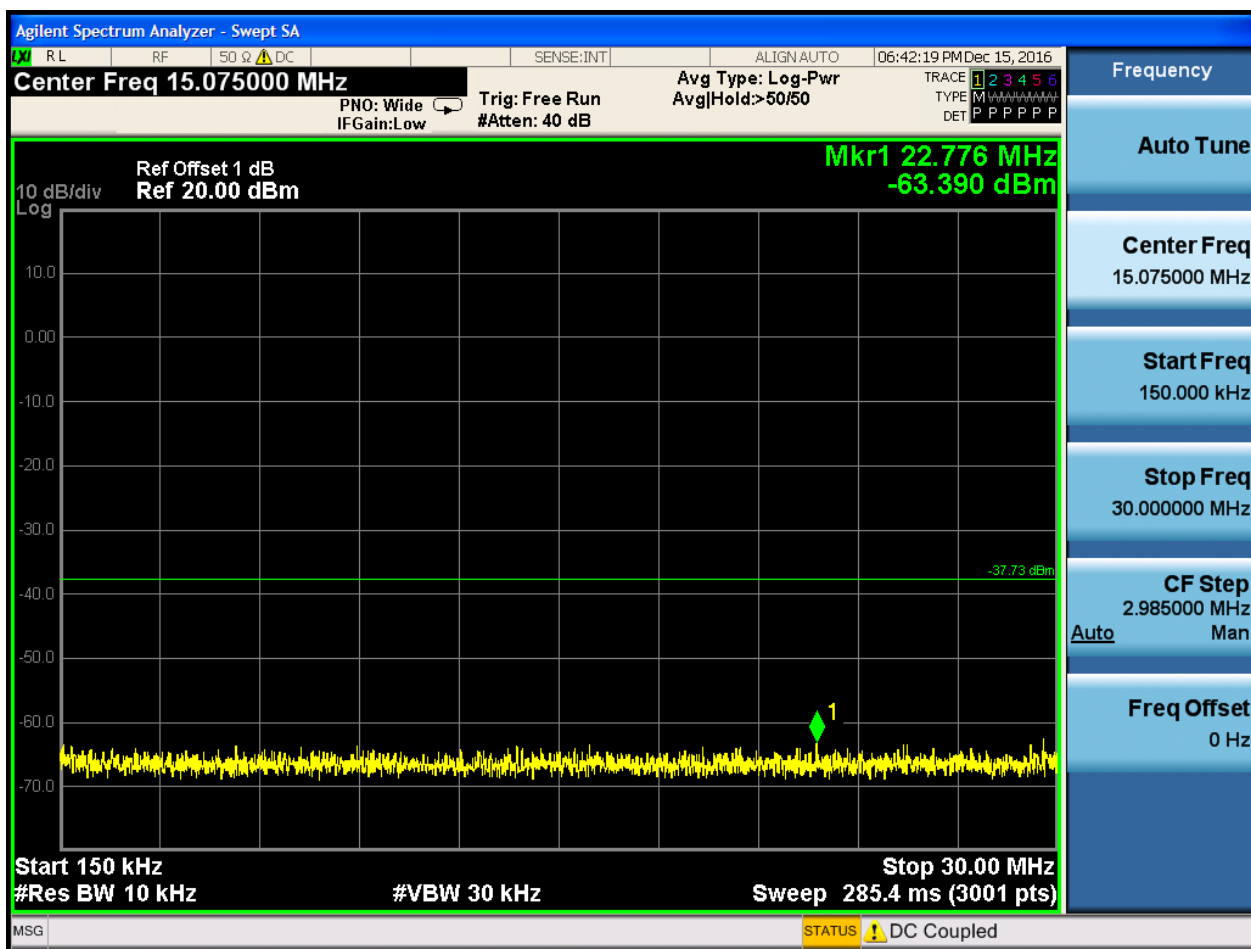
Start Freq 9.000 kHz

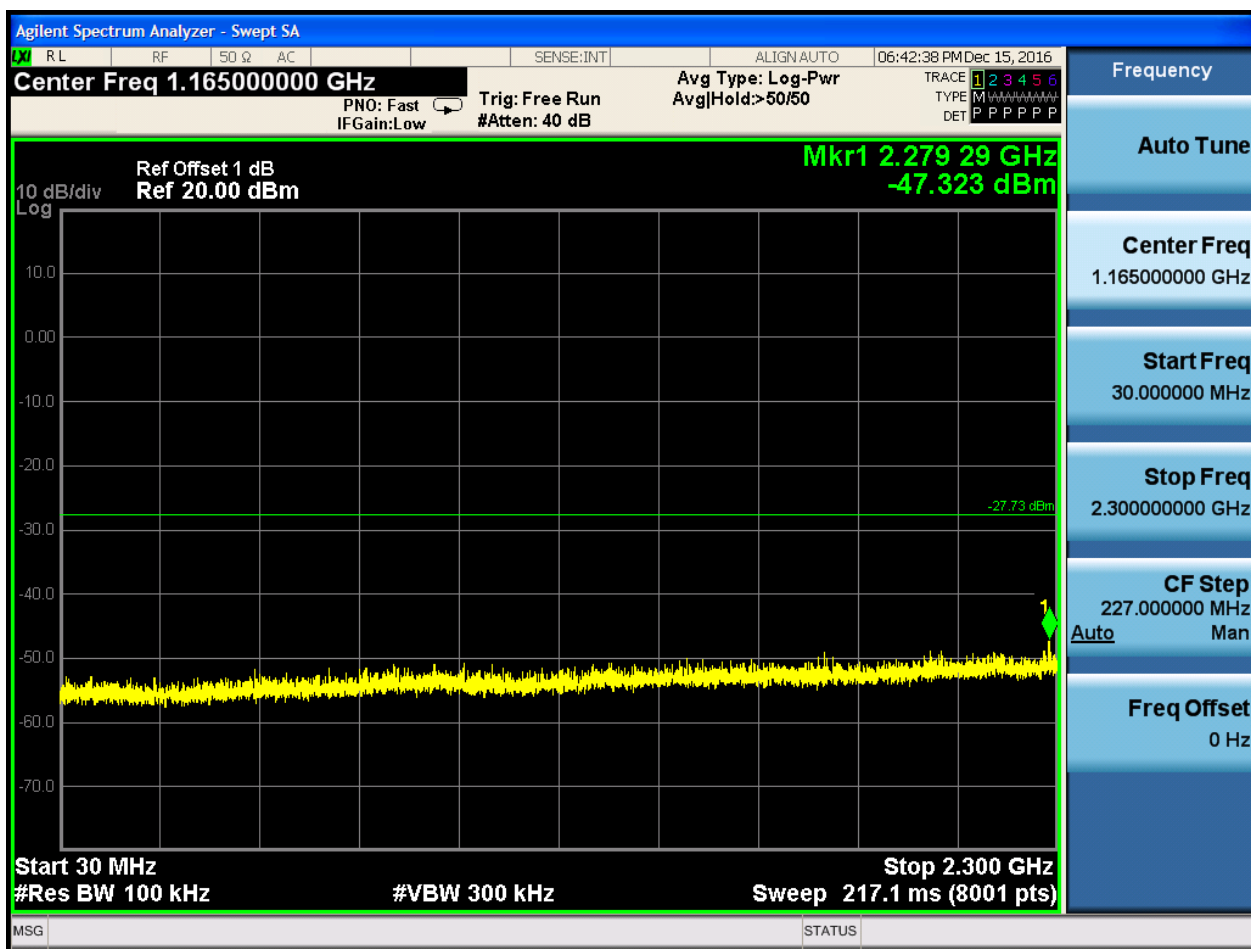
Stop Freq 150.000 kHz

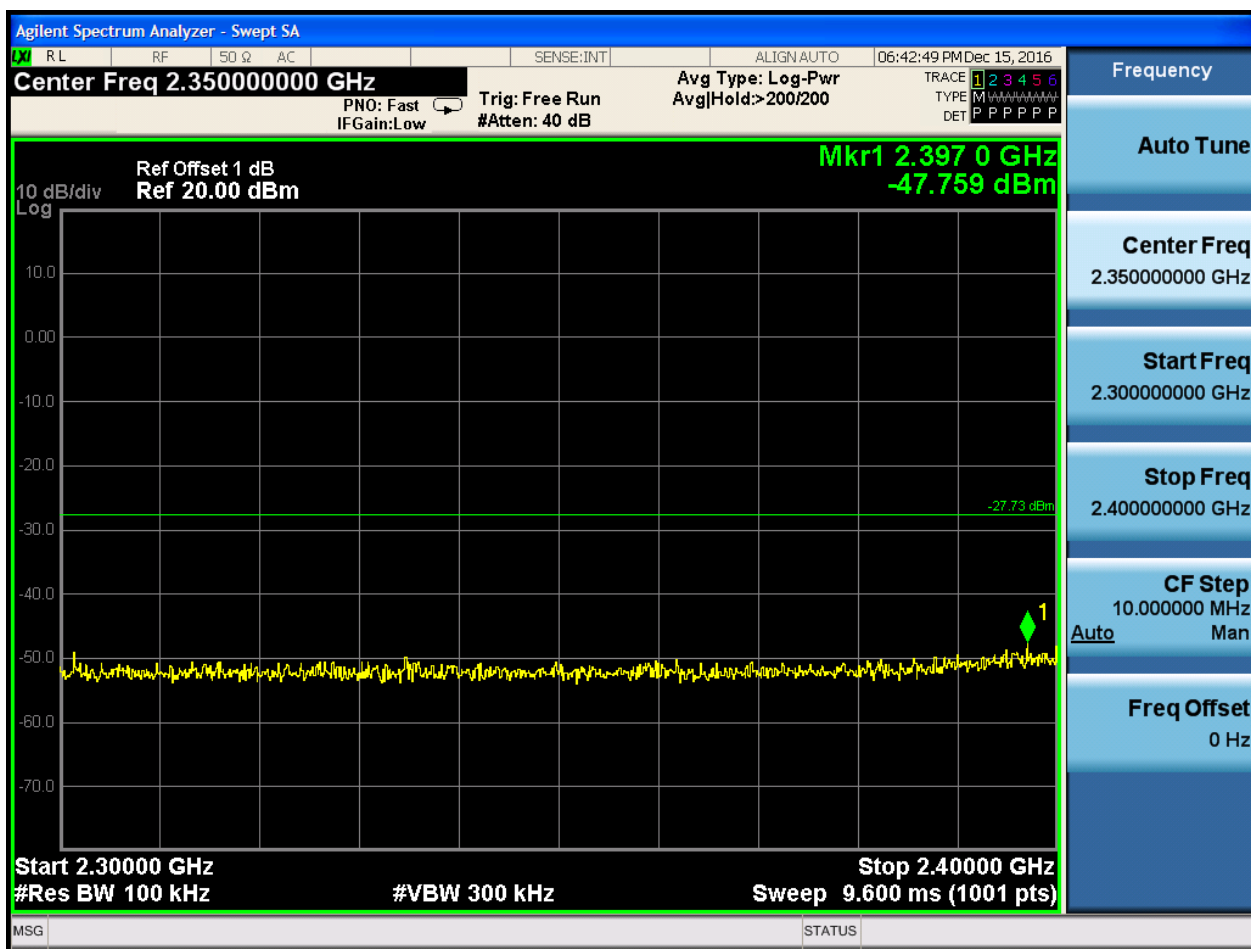
CF Step 14.100 kHz Man

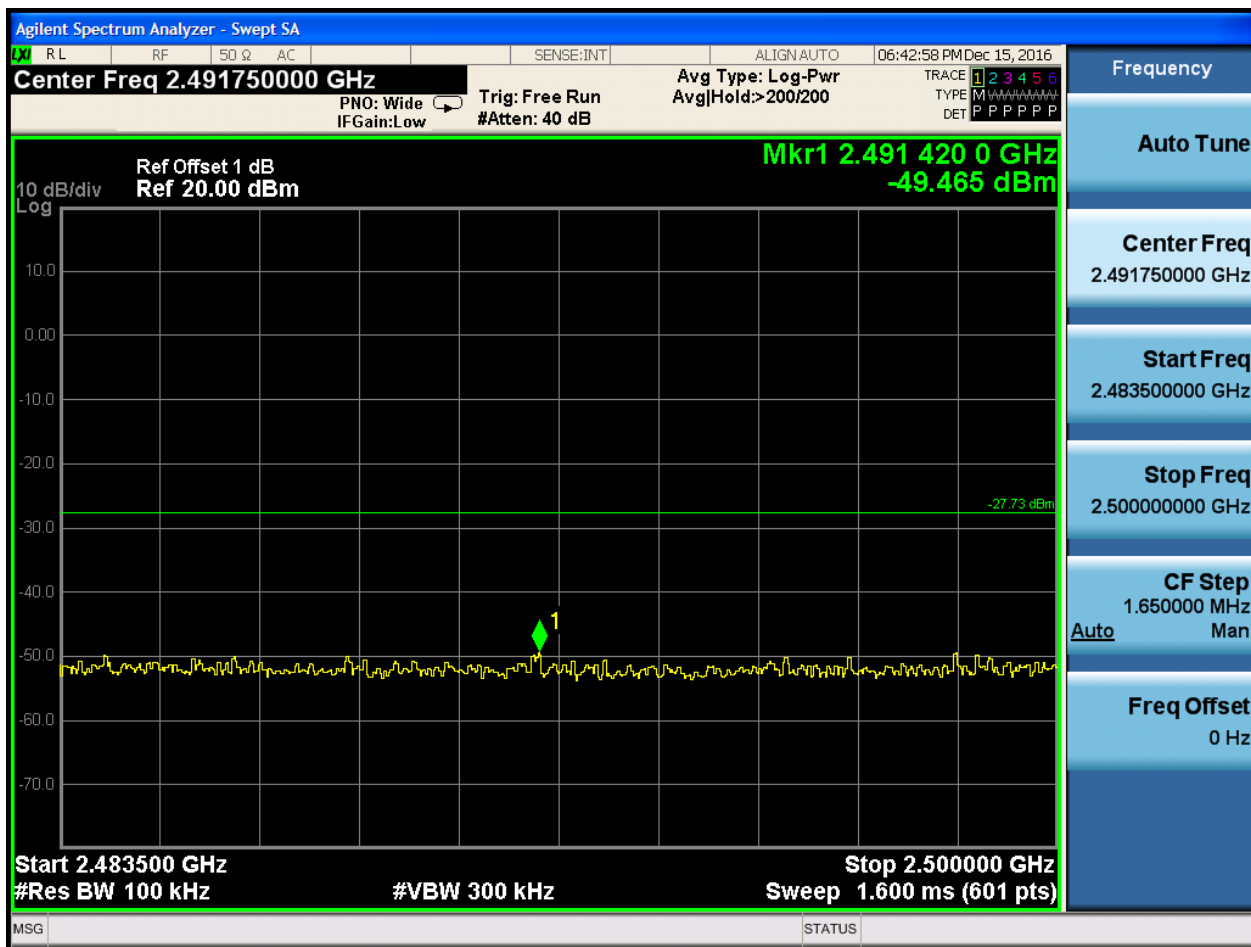
Auto

Freq Offset 0 Hz







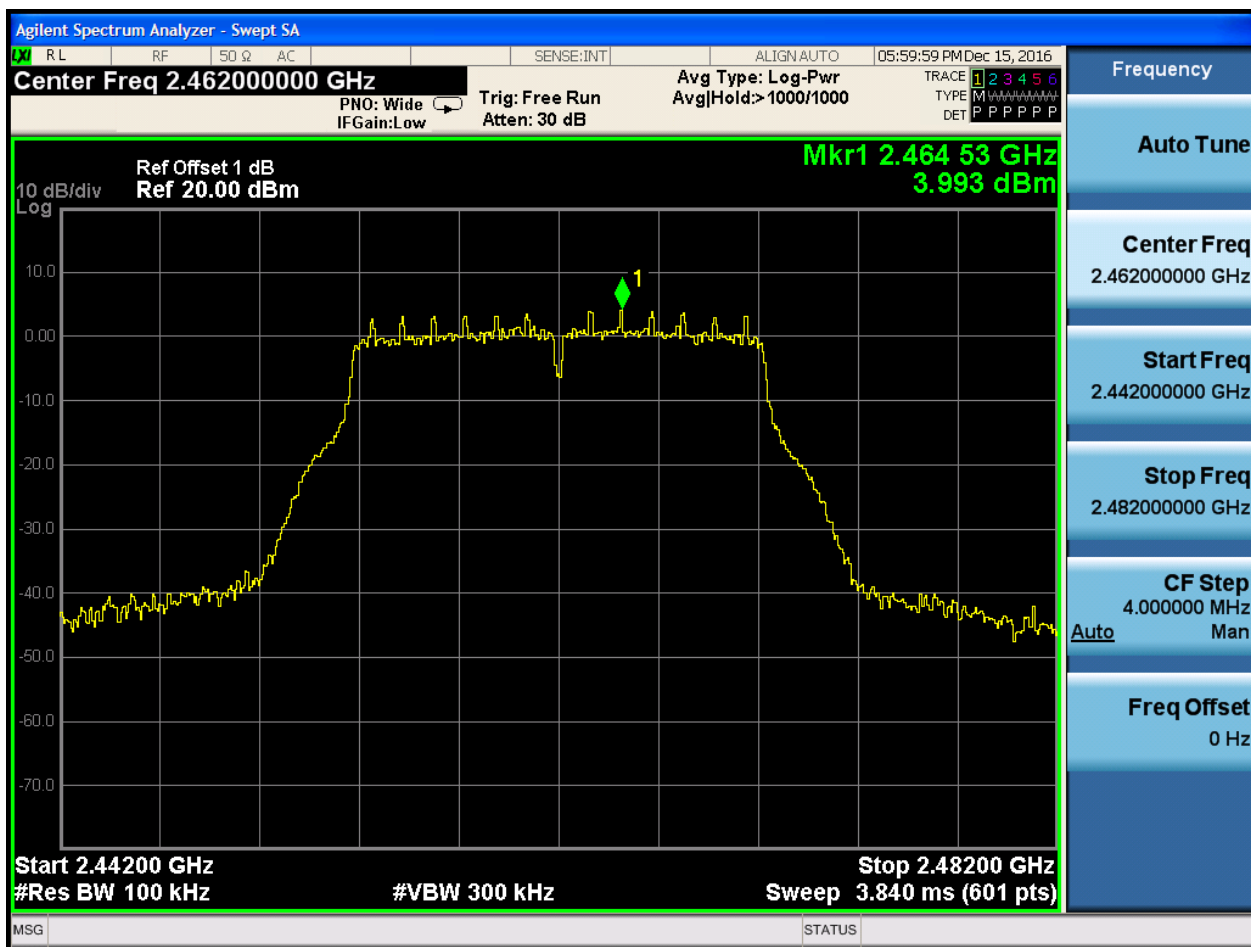






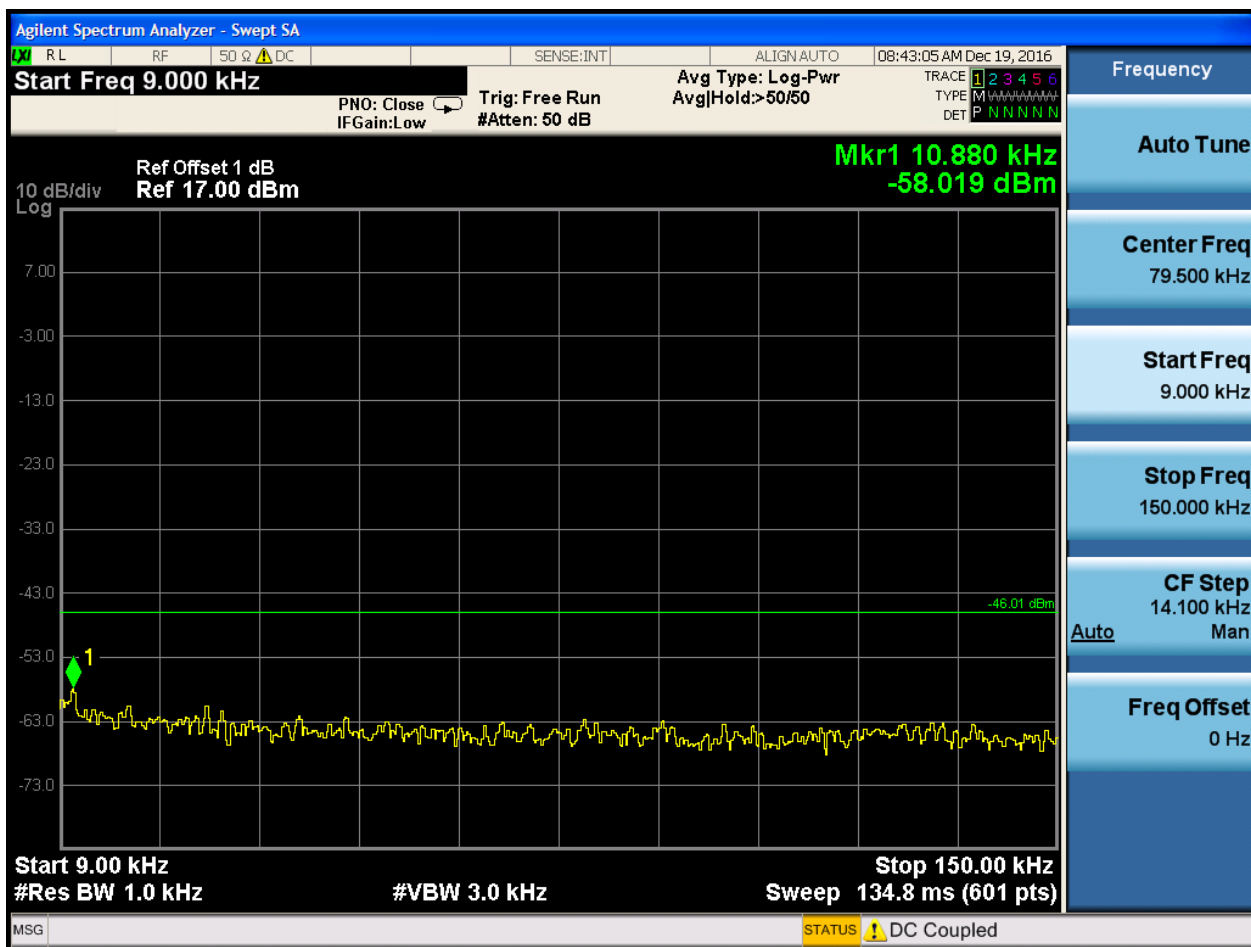
2.11 11G_H@Ant 1

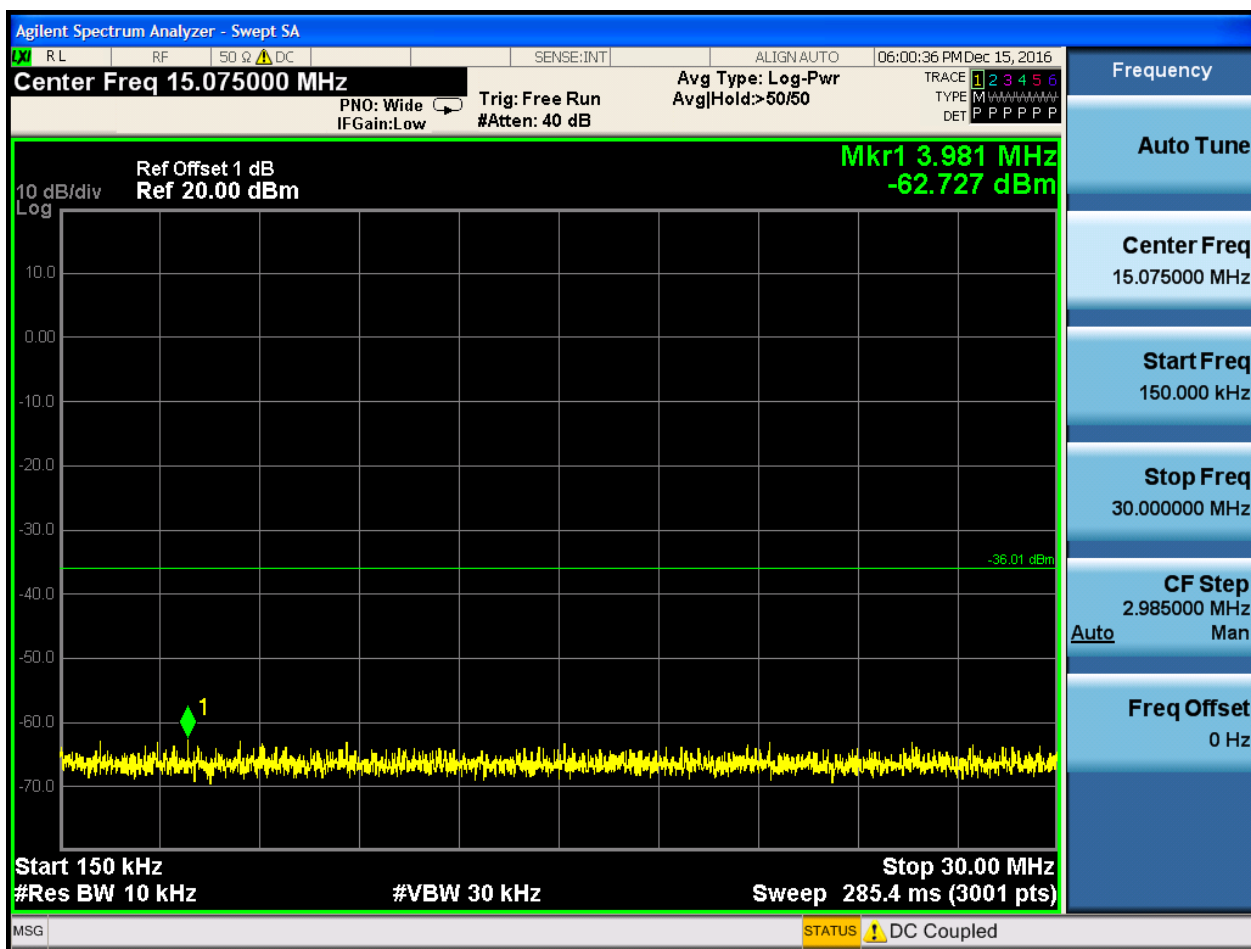
Pref:

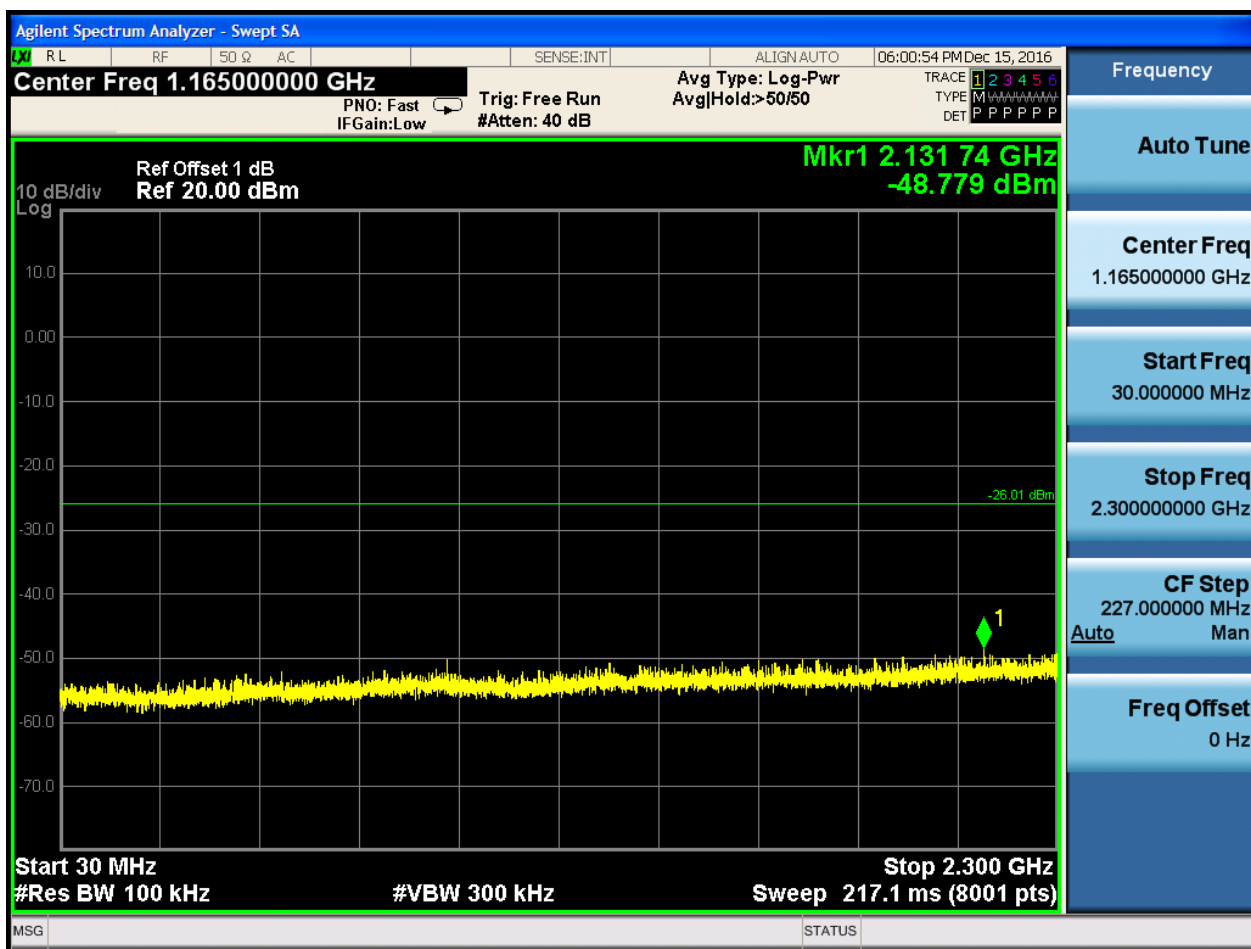


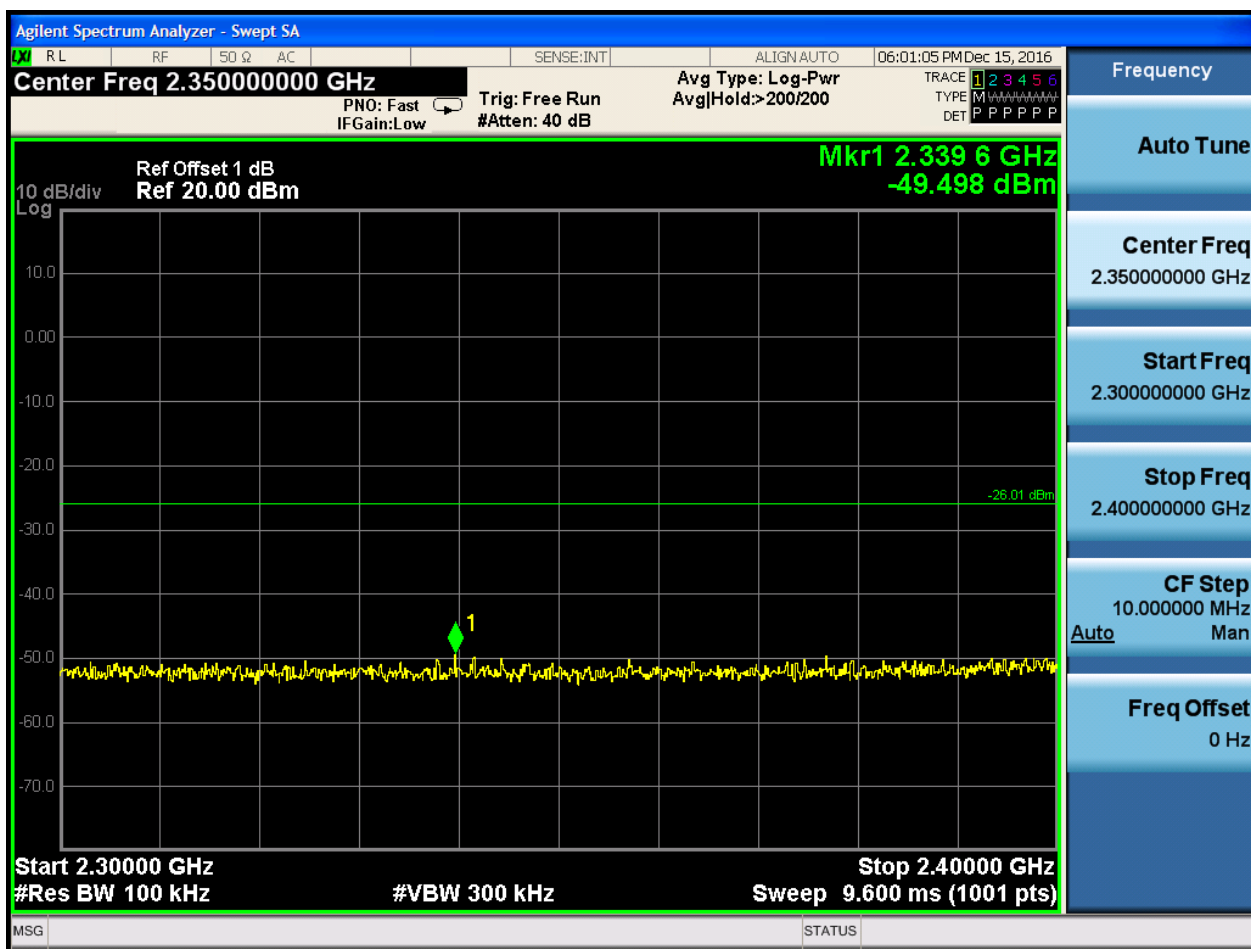


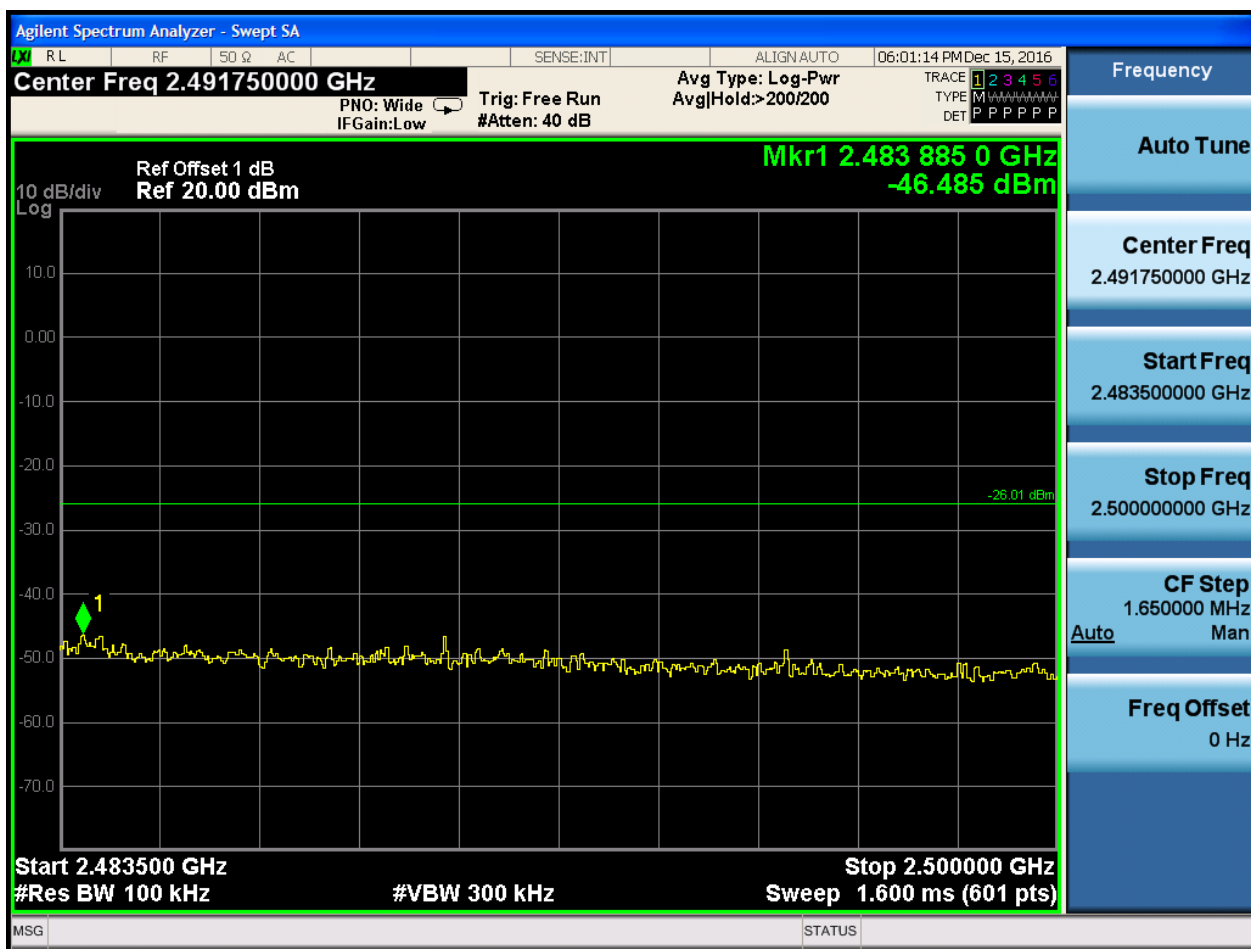
Puw:















2.12 11G_H@Ant 2

Pref:





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω DC SENSE:INT ALIGN AUTO 08:43:27 AM Dec 19, 2016

Start Freq 9.000 kHz

PN0: Close Trig: Free Run Avg Type: Log-Pwr AvgHold: >50/50

IFGain: Low #Atten: 50 dB

TRACE 1 2 3 4 5 6
TYPE M
DET P NNNNN

Ref Offset 1 dB
Ref 17.00 dBm

Mkr1 13.230 kHz
-59.834 dBm

10 dB/div
Log

7.00
-3.00
-13.0
-23.0
-33.0
-43.0
-53.0
-63.0
-73.0

-48.37 dBm

Start 9.00 kHz
#Res BW 1.0 kHz

Stop 150.00 kHz
#VBW 3.0 kHz

Sweep 134.8 ms (601 pts)

Frequency

Auto Tune

Center Freq
79.500 kHz

Start Freq
9.000 kHz

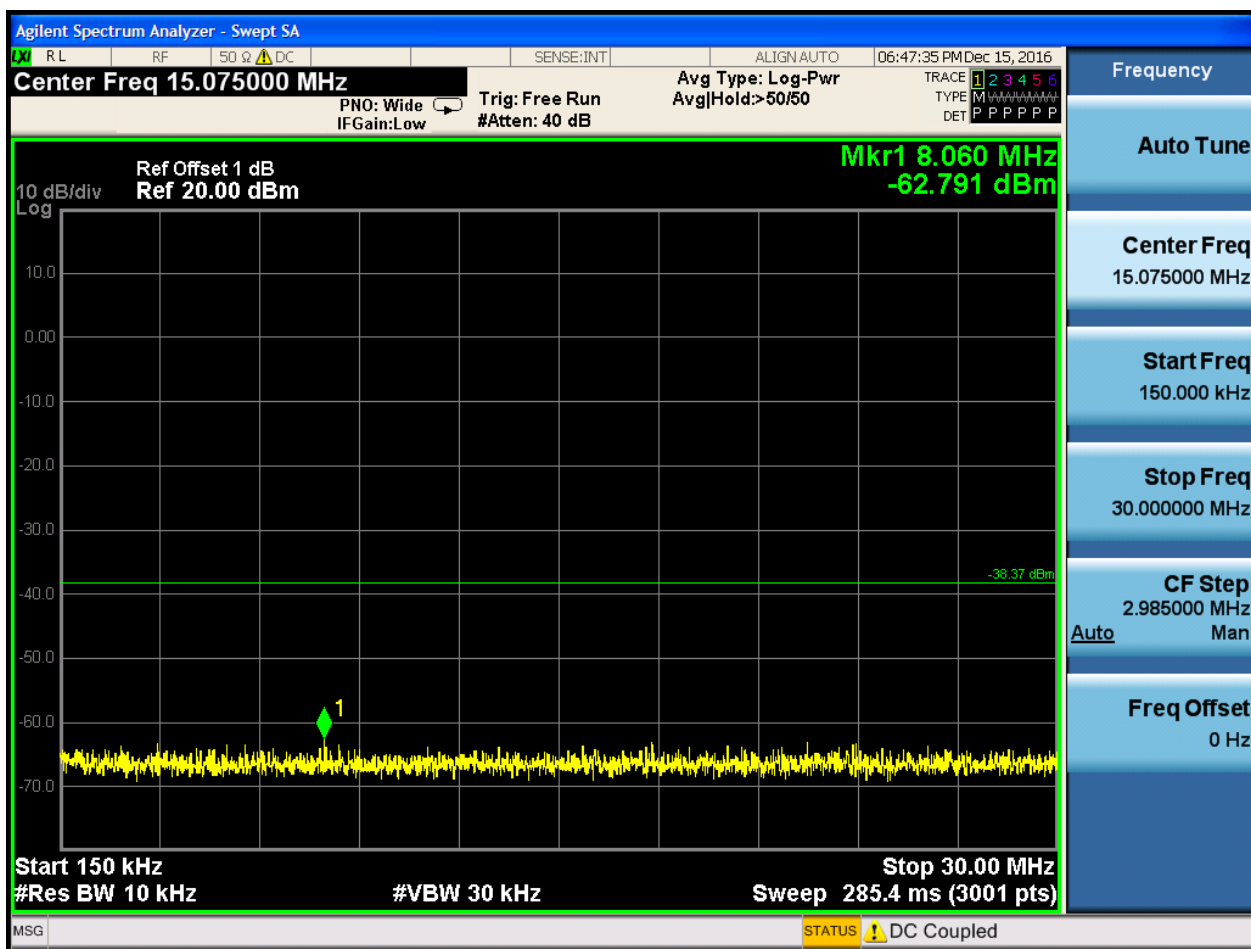
Stop Freq
150.000 kHz

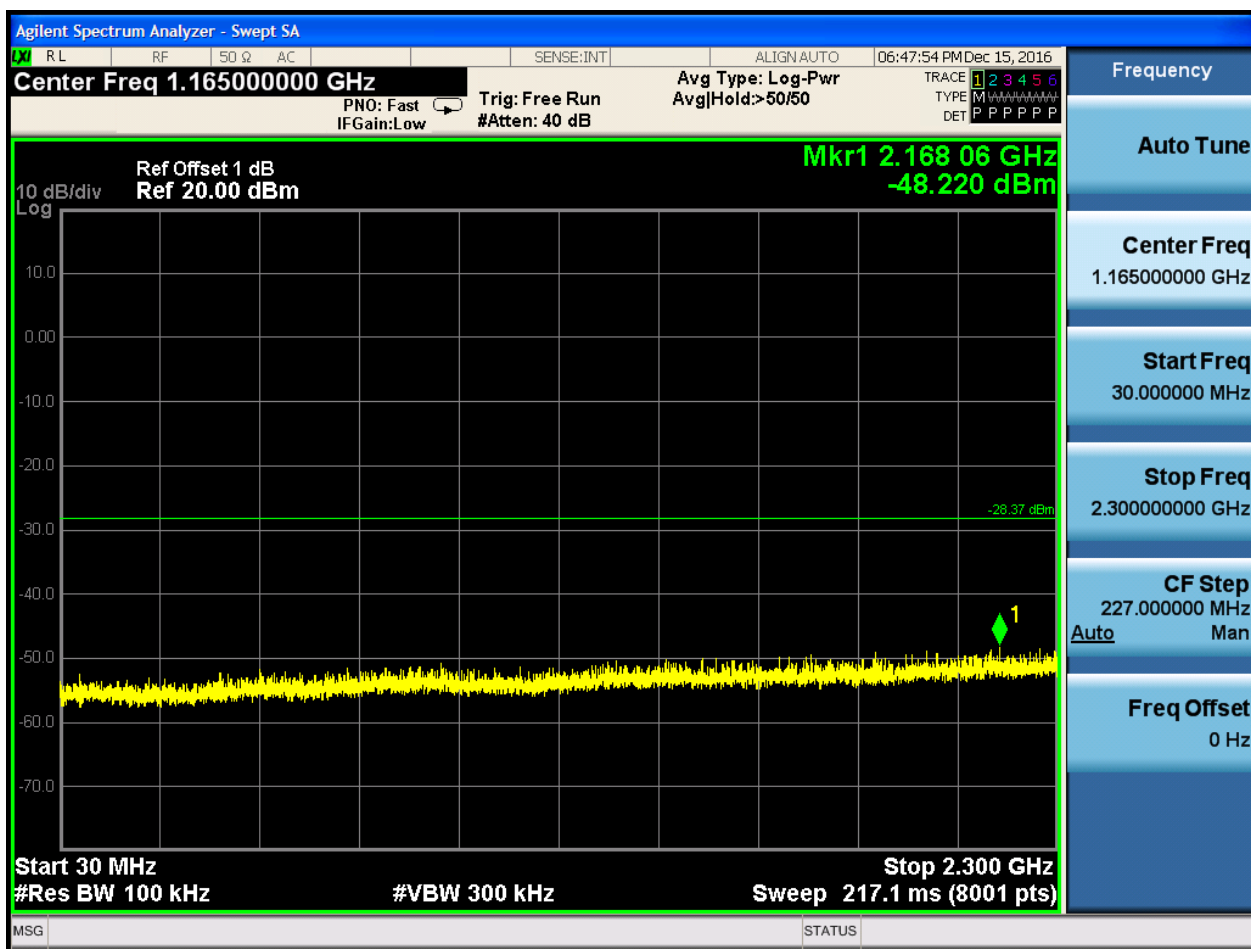
CF Step
14.100 kHz
Man

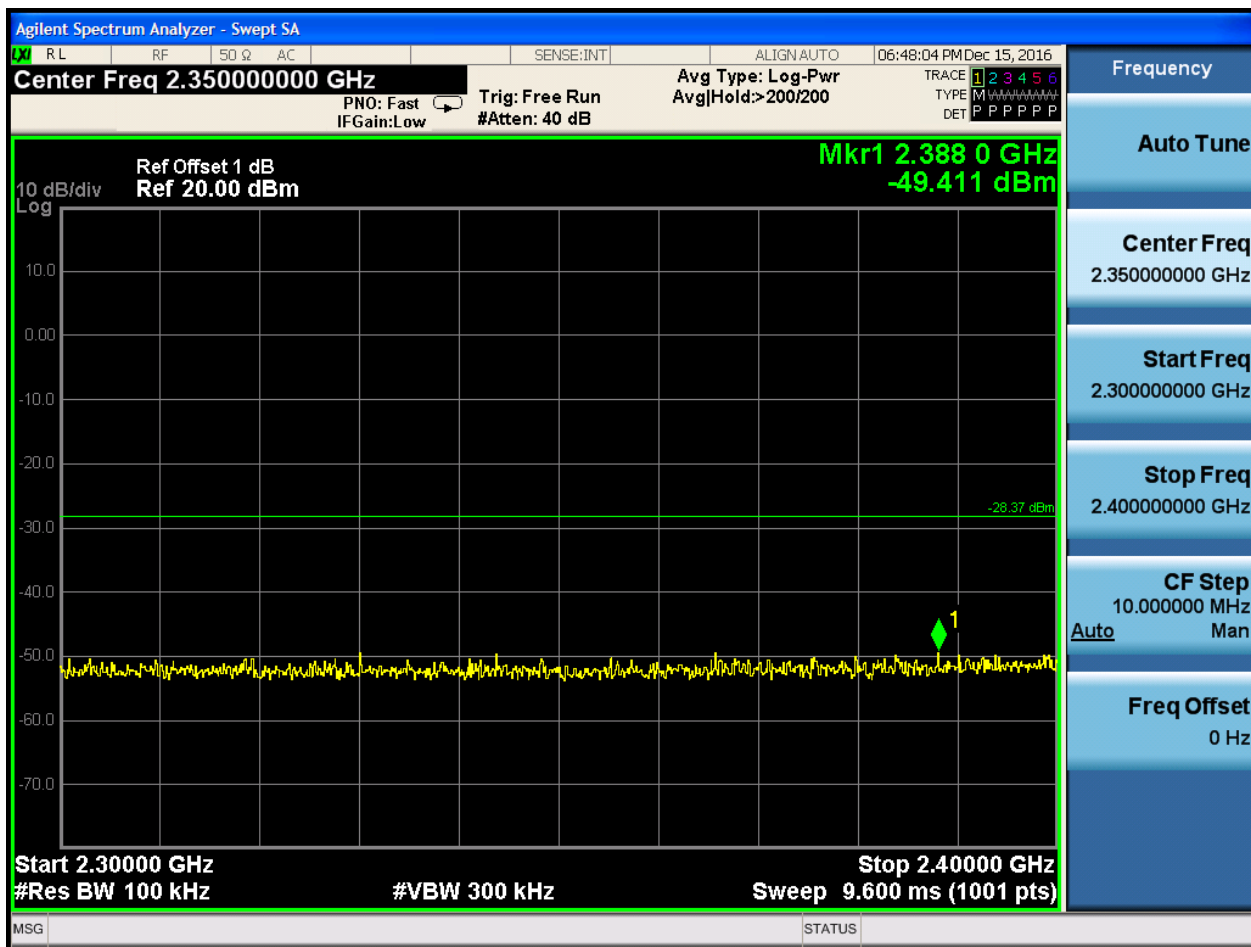
Auto

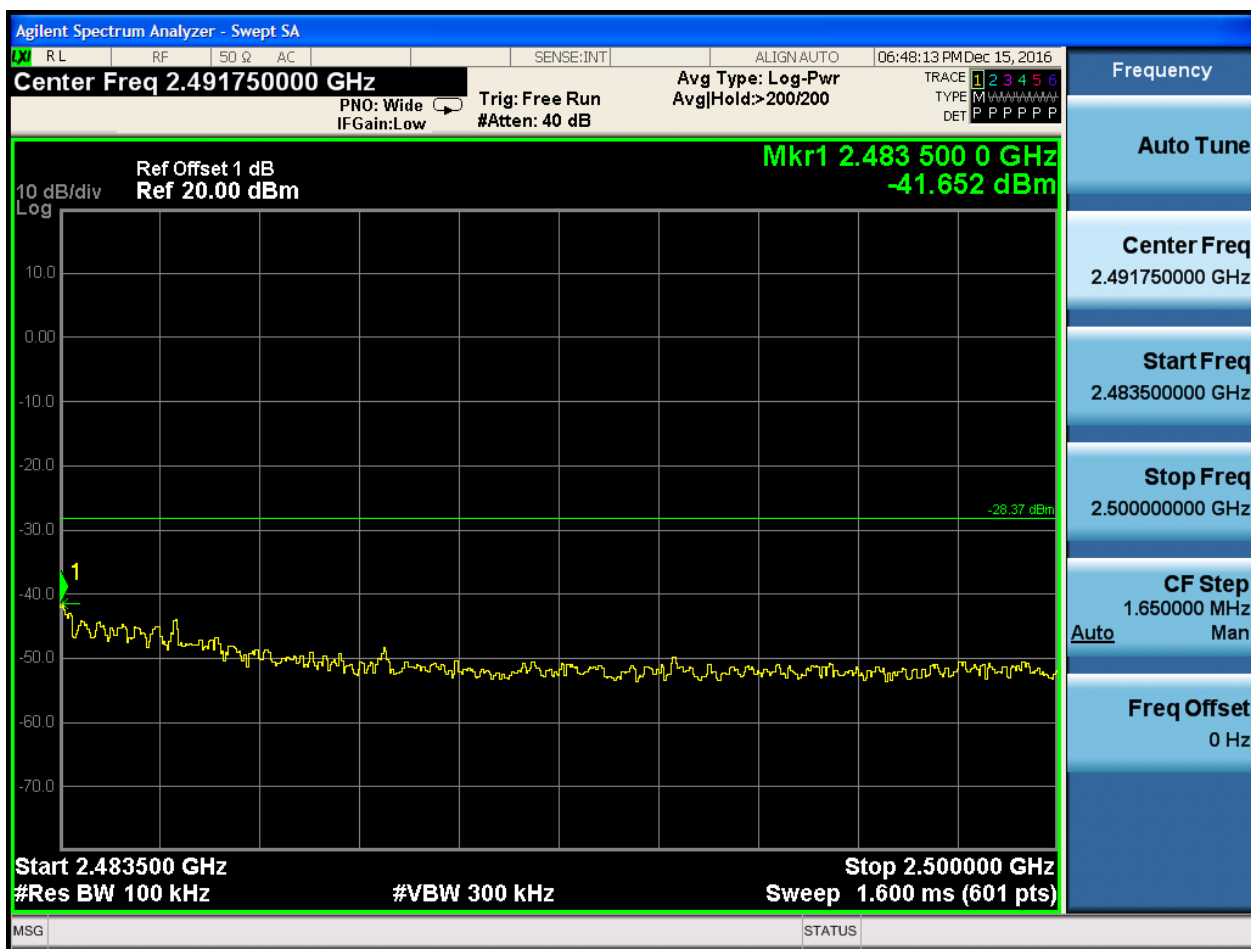
Freq Offset
0 Hz

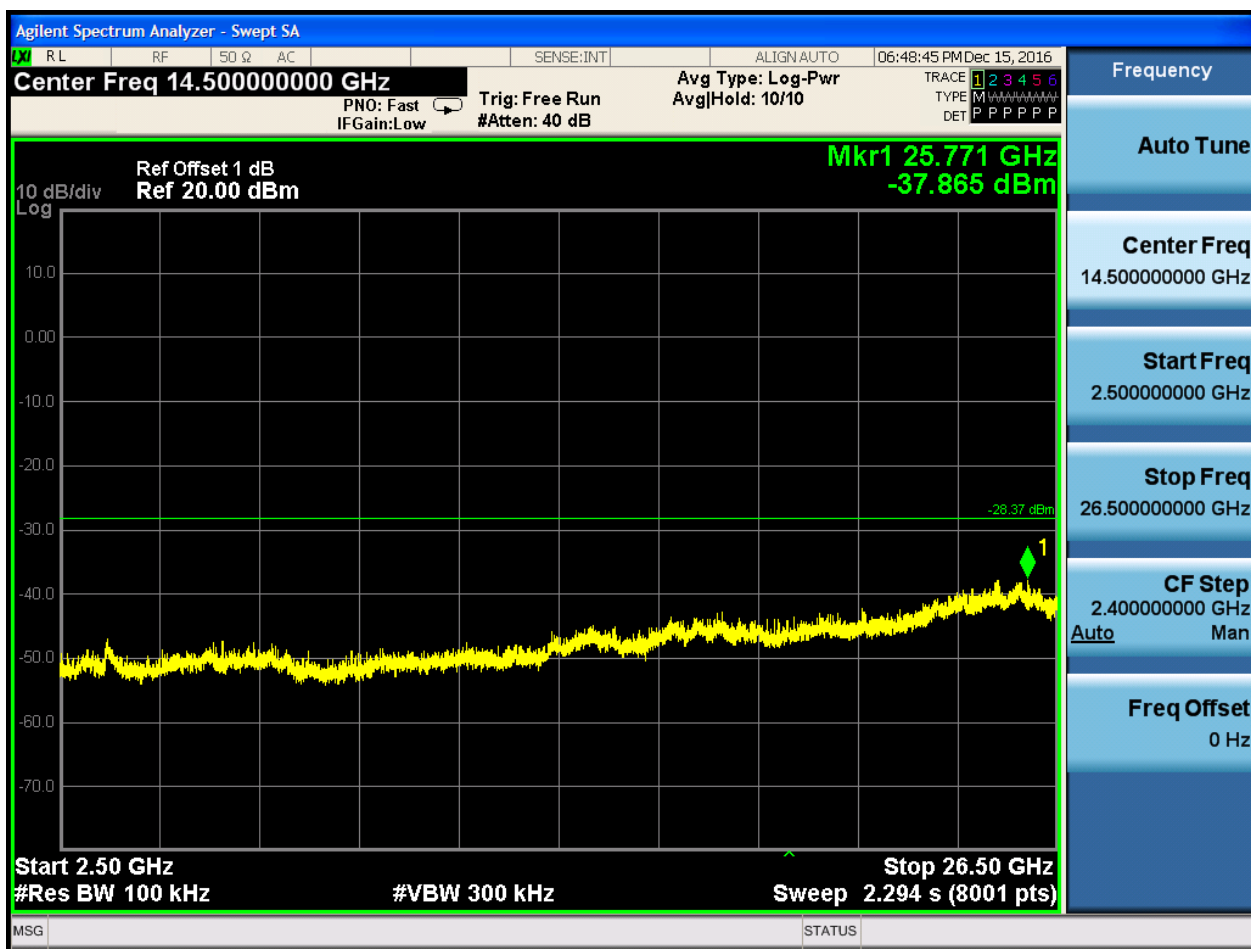
MSG STATUS Δ DC Coupled







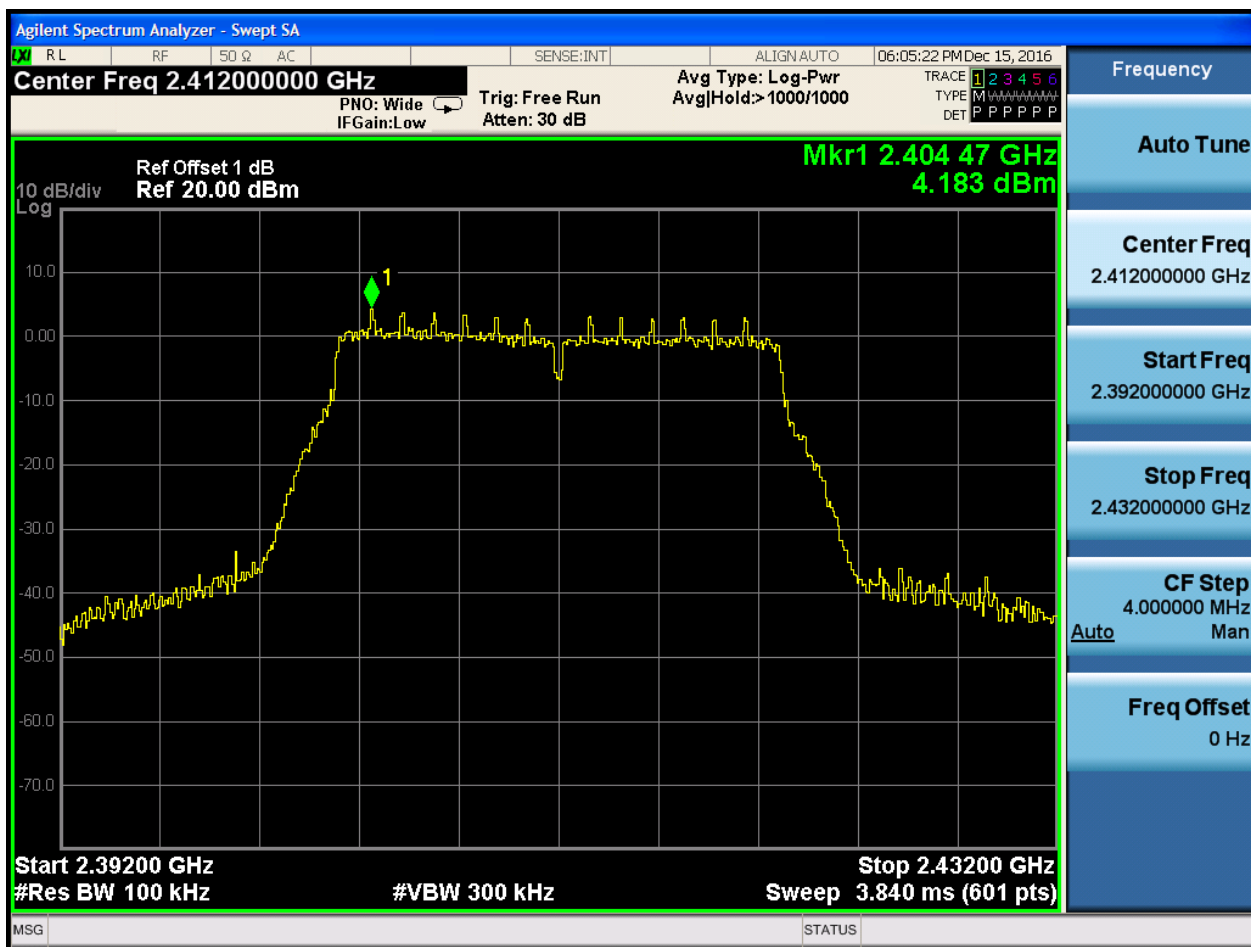






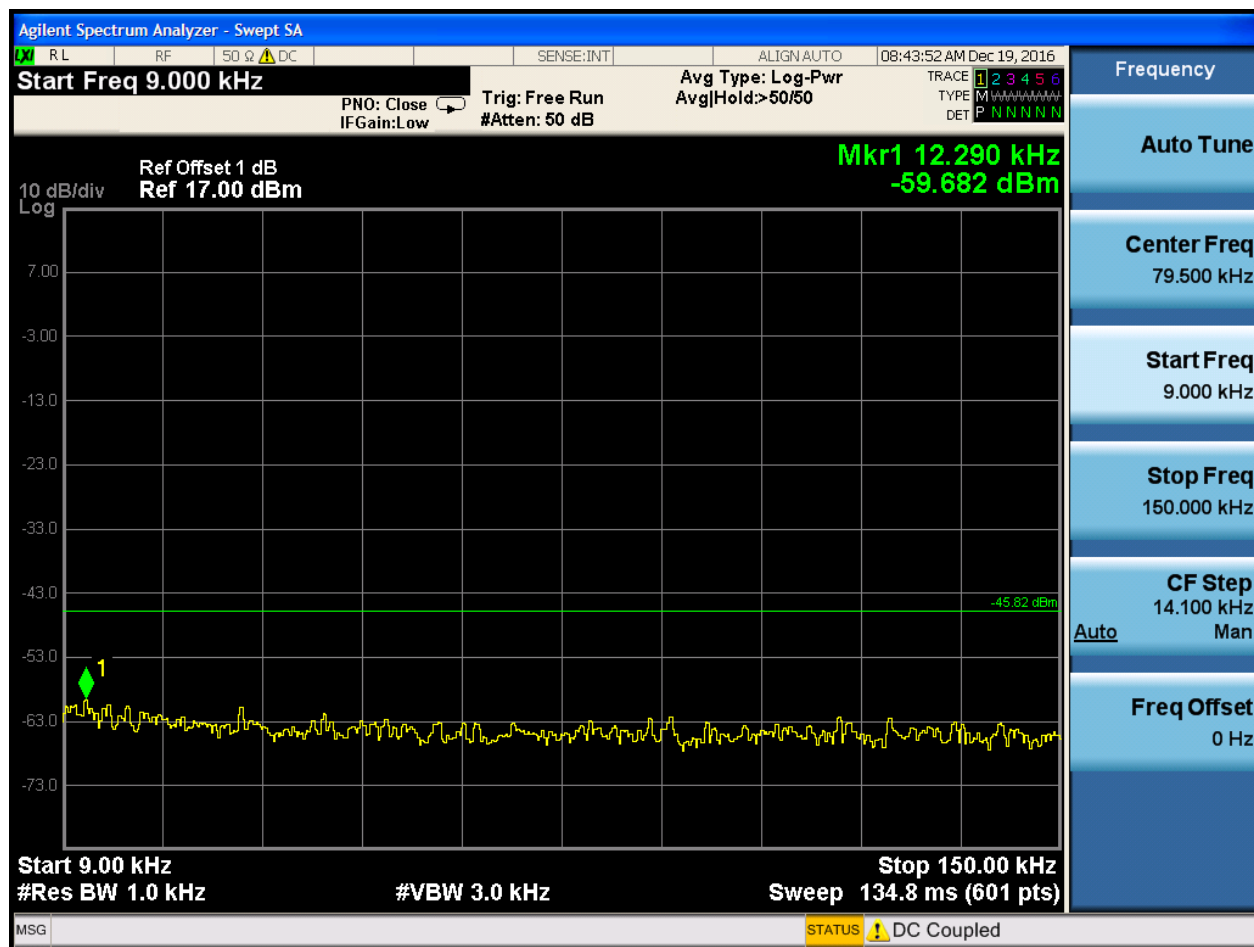
2.13 11N20_L@Ant 1

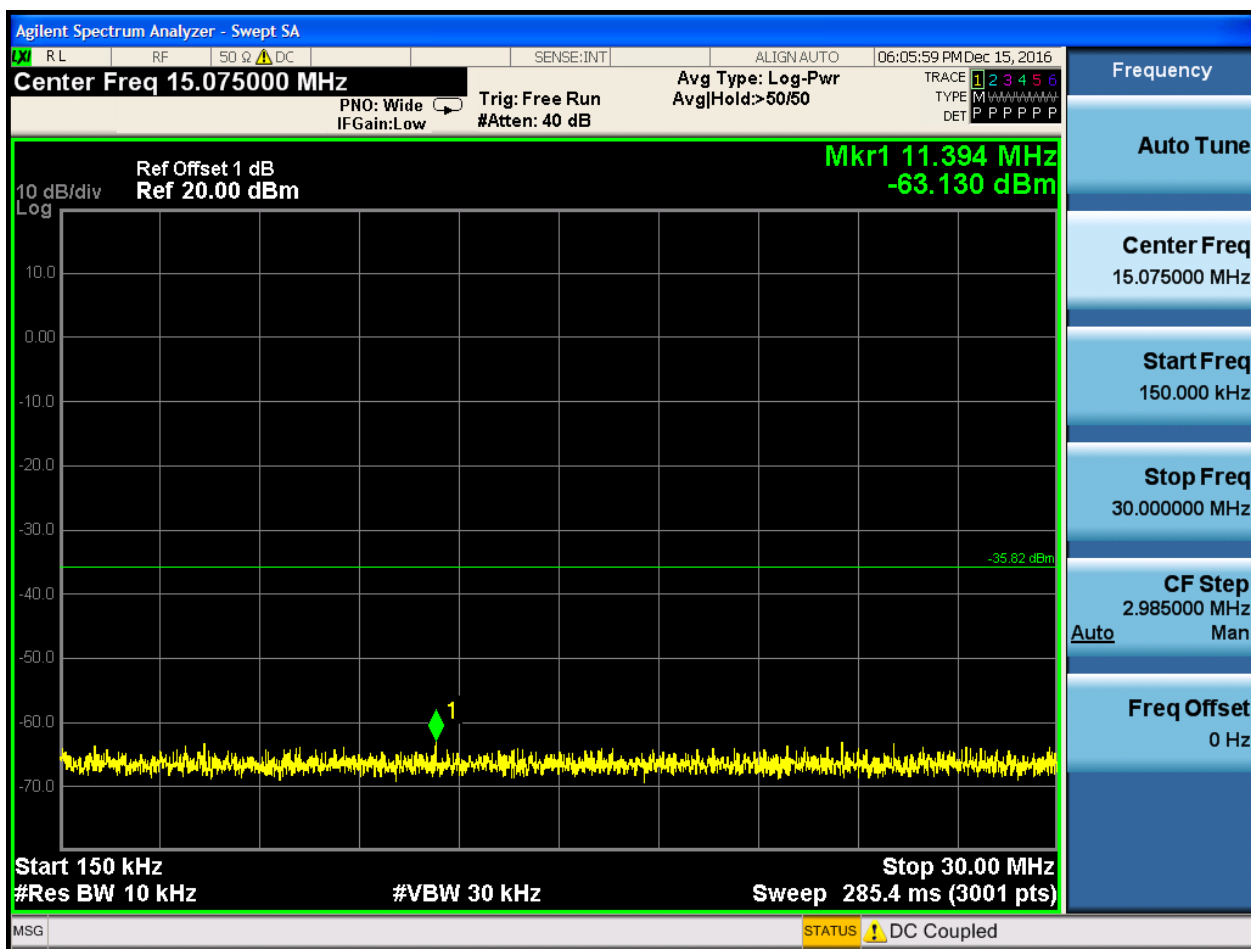
Pref:

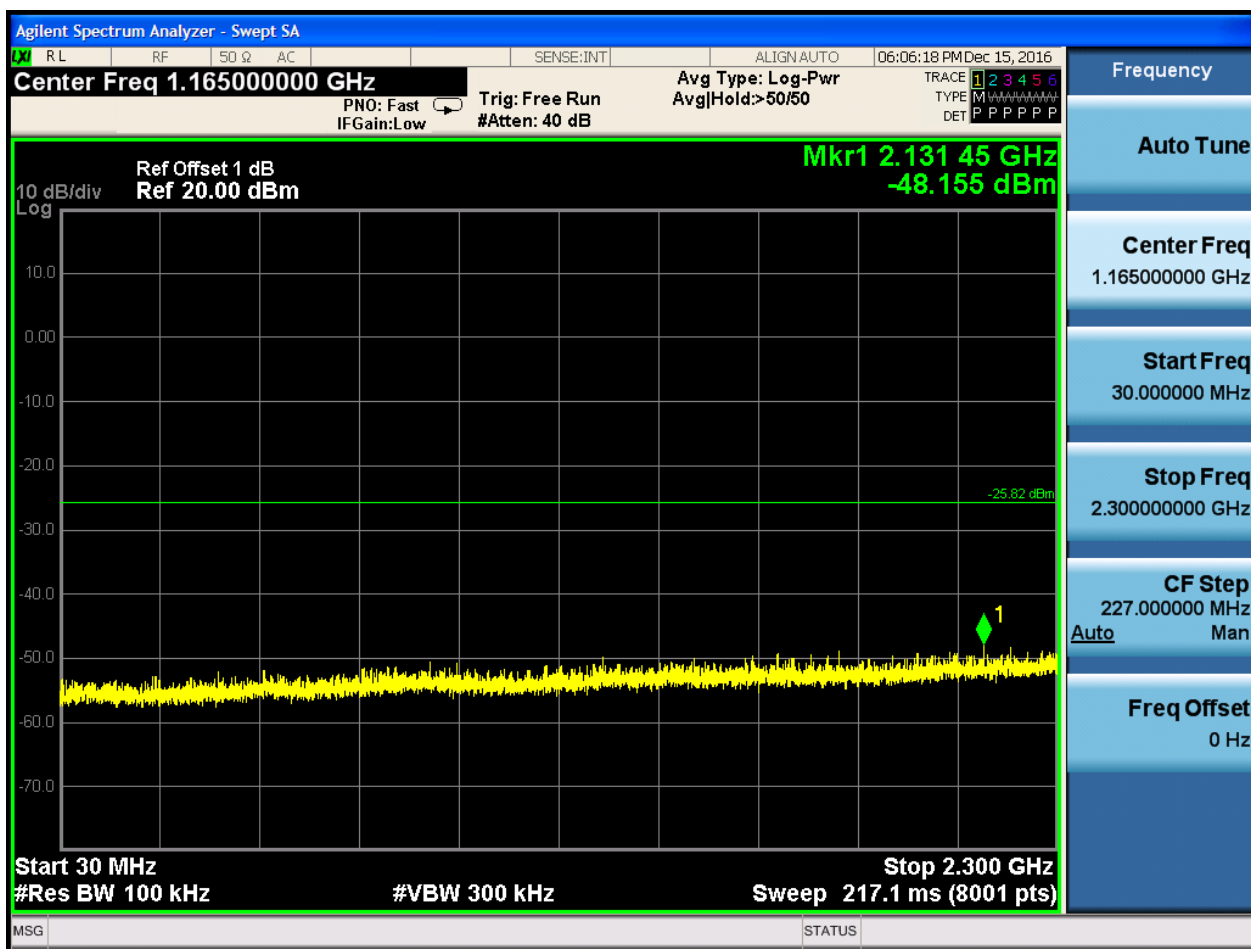


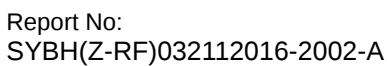


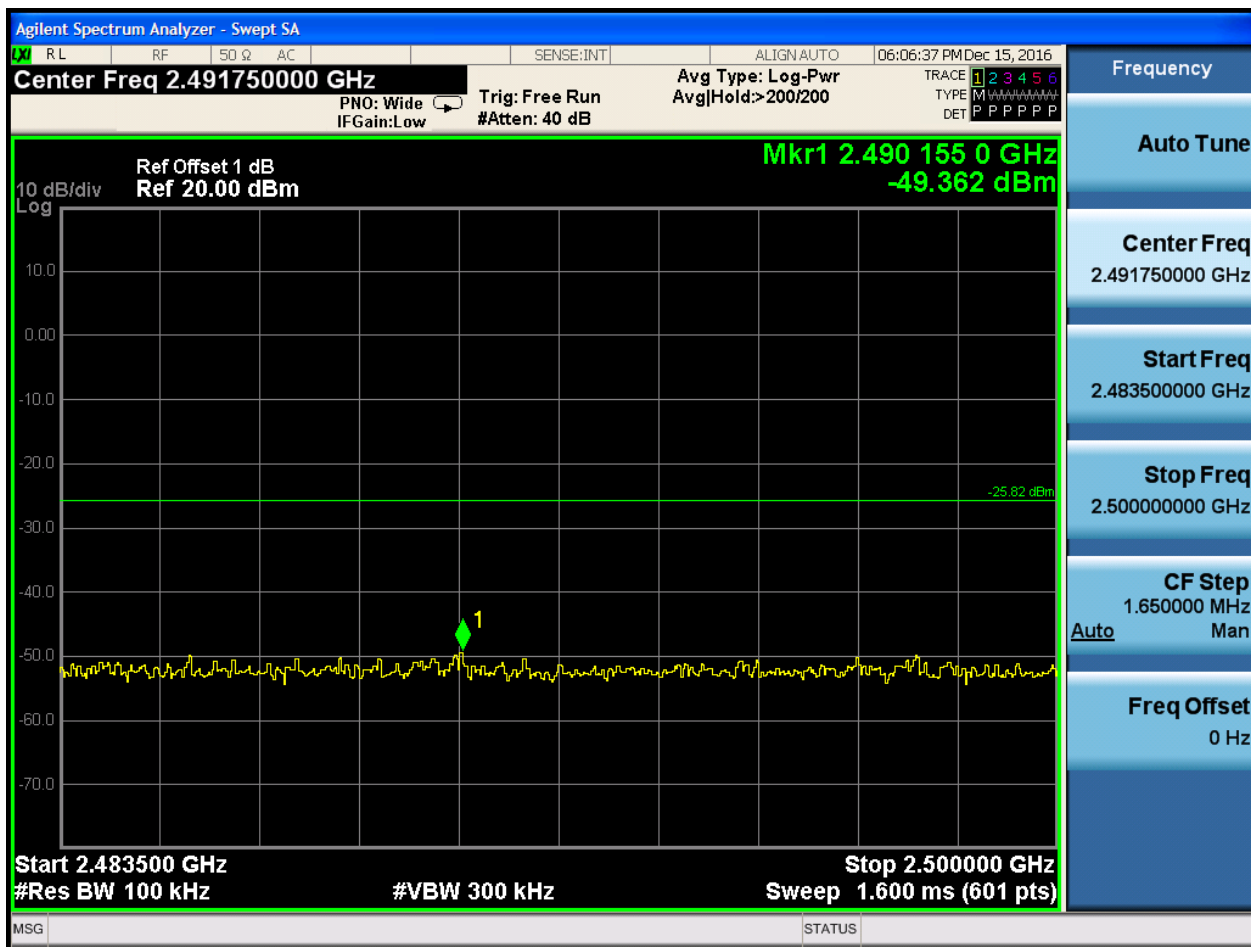
Puw:

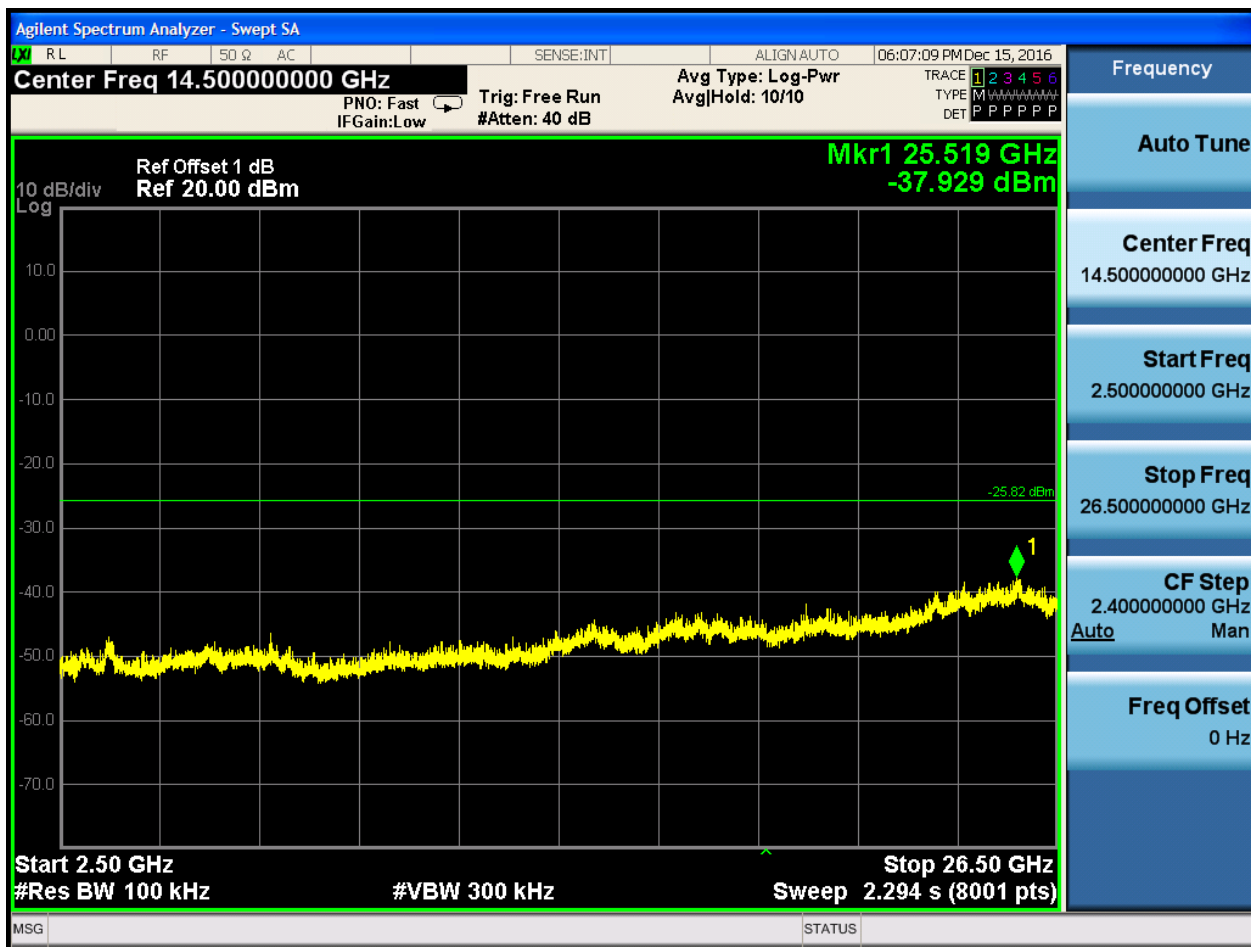








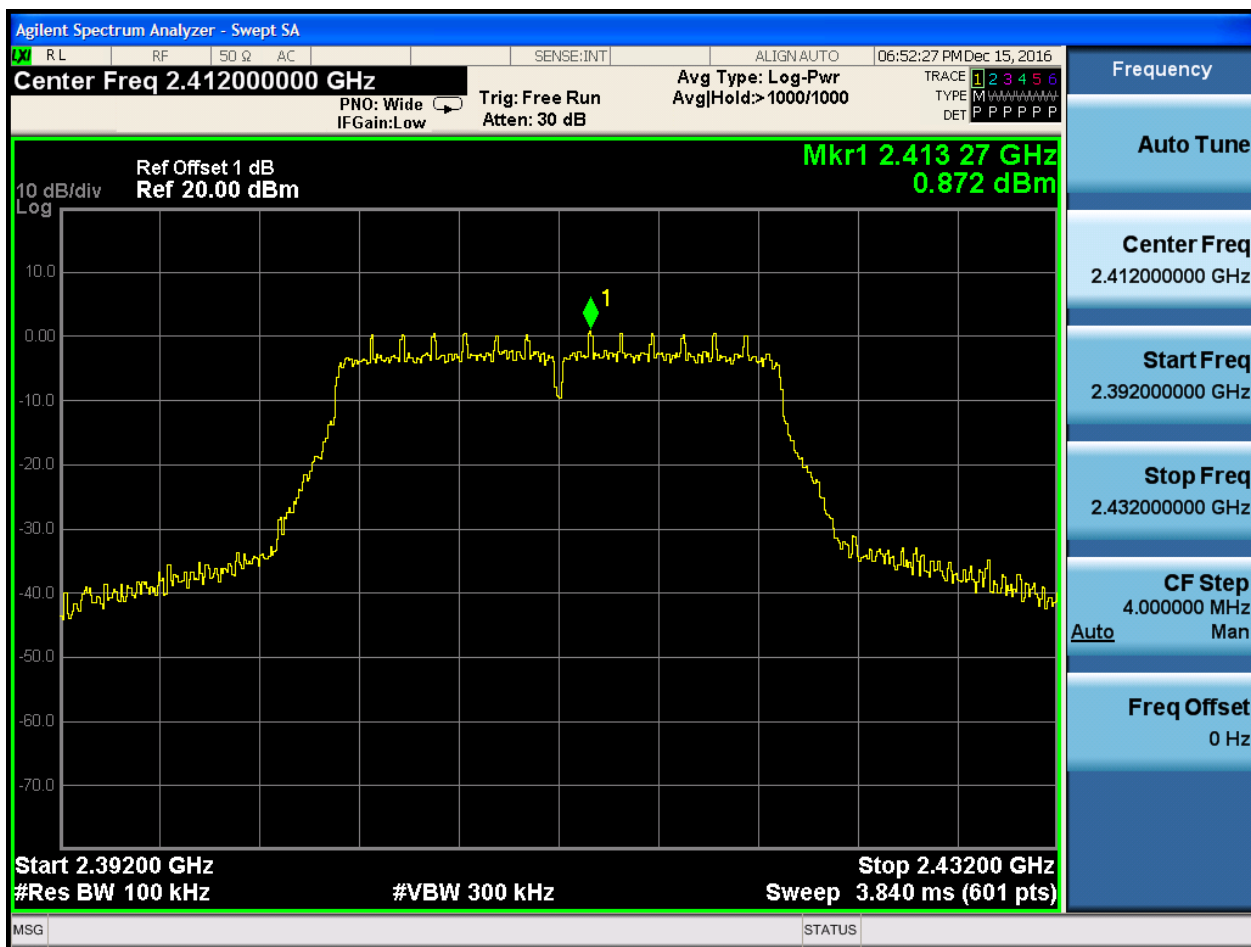






2.14 11N20_L@Ant 2

Pref:





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω DC SENSE:INT ALIGN: AUTO 08:44:13 AM Dec 19, 2016

Start Freq 9.000 kHz Avg Type: Log-Pwr PNO: Close Trig: Free Run IFGain: Low #Atten: 50 dB

TRACE 1 2 3 4 5 6 TYPE M N N N N N N N DET P N N N N N N N

Ref Offset 1 dB Ref 17.00 dBm Mkr1 9.940 kHz -59.272 dBm

10 dB/div Log

7.00 -3.00 -13.0 -23.0 -33.0 -43.0 -53.0 -63.0 -73.0

Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Stop 150.00 kHz Sweep 134.8 ms (601 pts)

STATUS DC Coupled

Frequency

Auto Tune

Center Freq 79.500 kHz

Start Freq 9.000 kHz

Stop Freq 150.000 kHz

CF Step 14.100 kHz Man

Auto

Freq Offset 0 Hz

