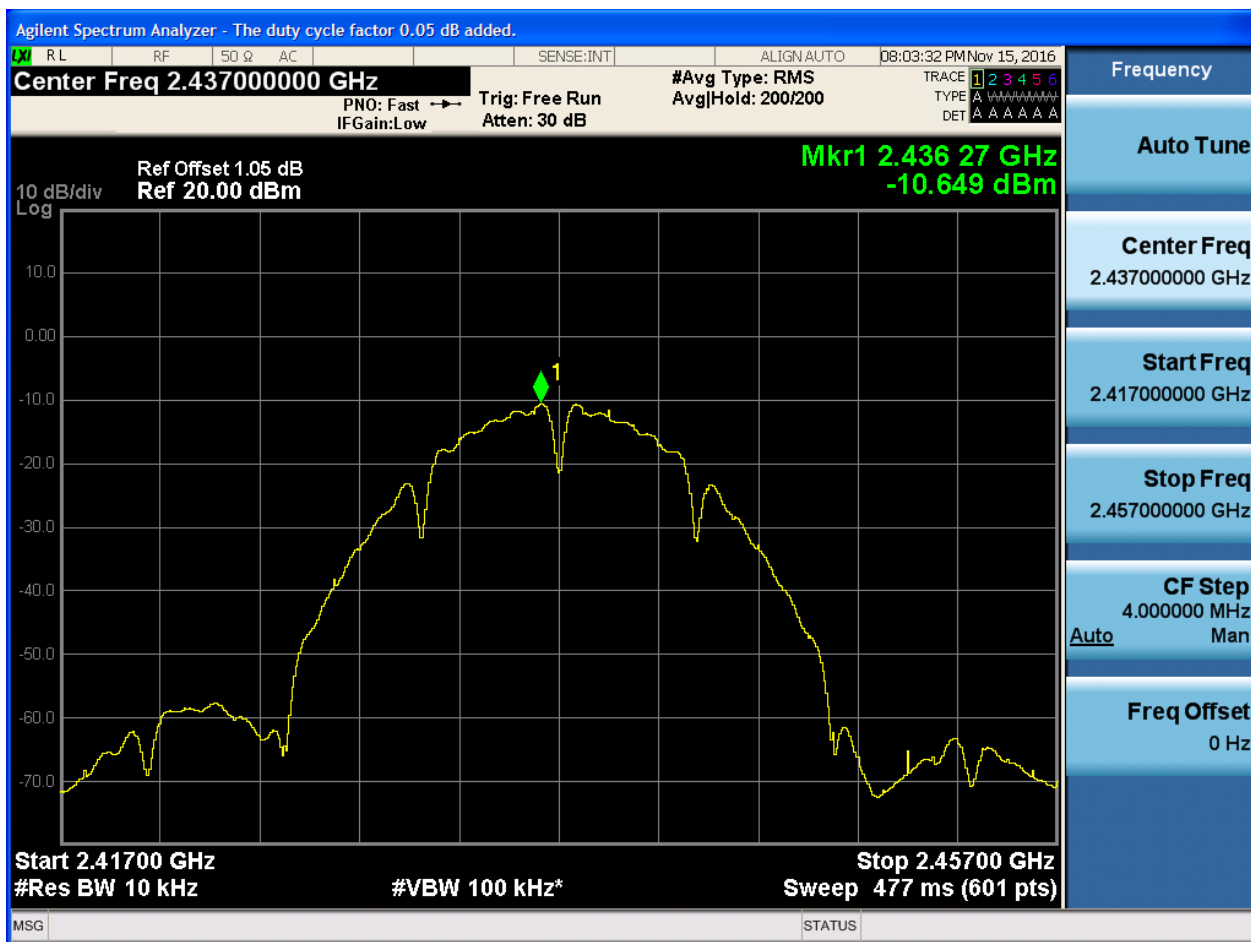


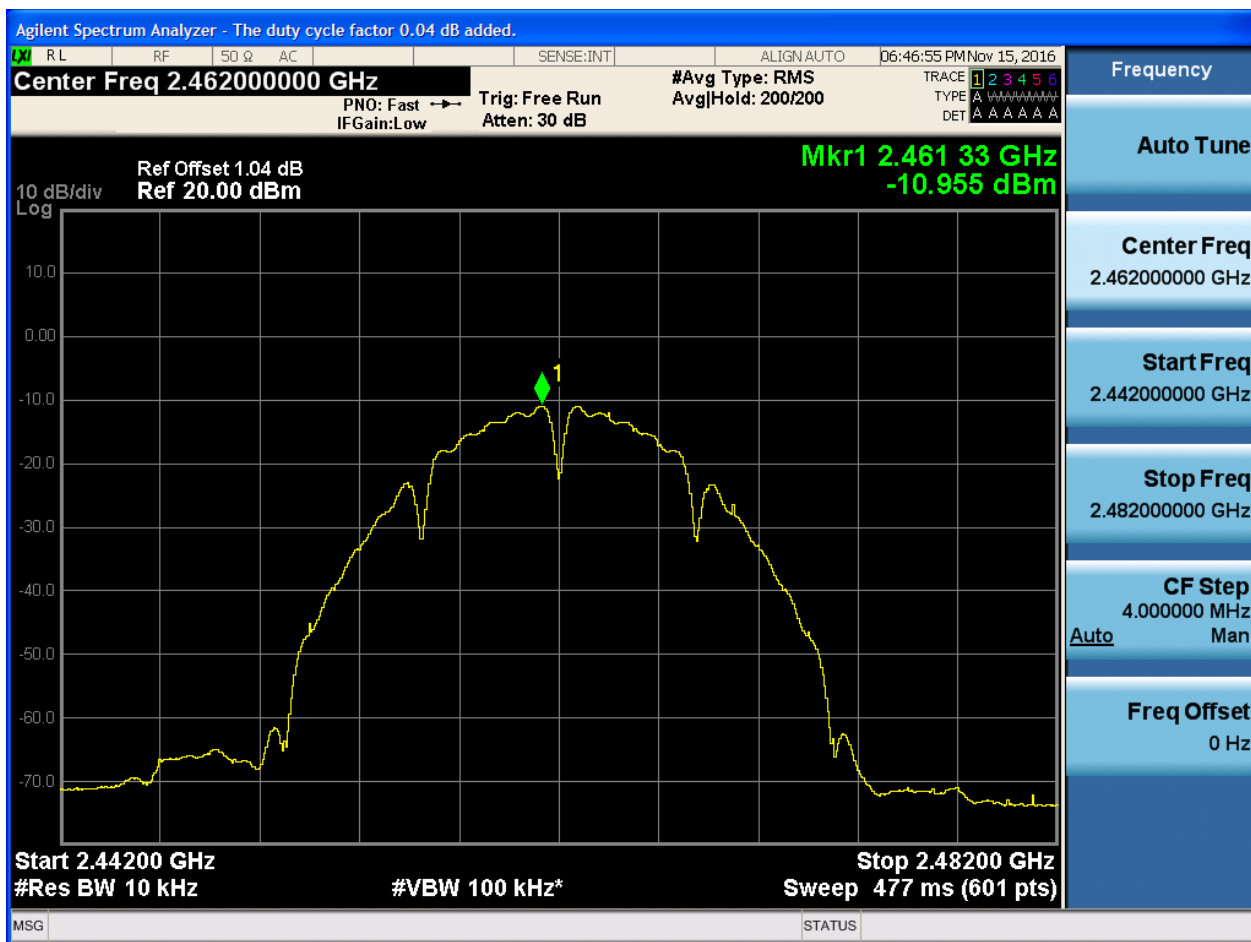


2.4 11B_M@Ant 2



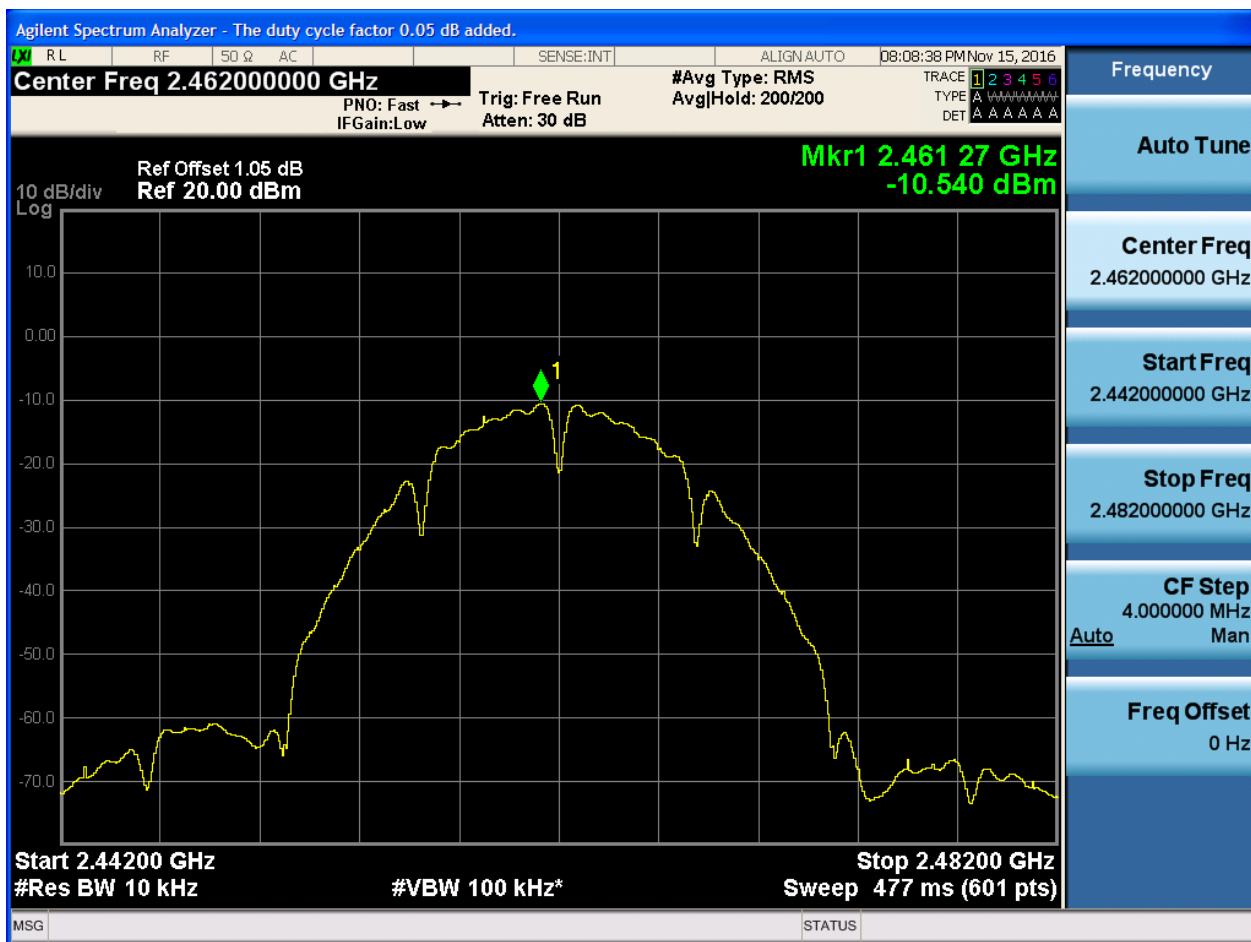


2.5 11B_H@Ant 1



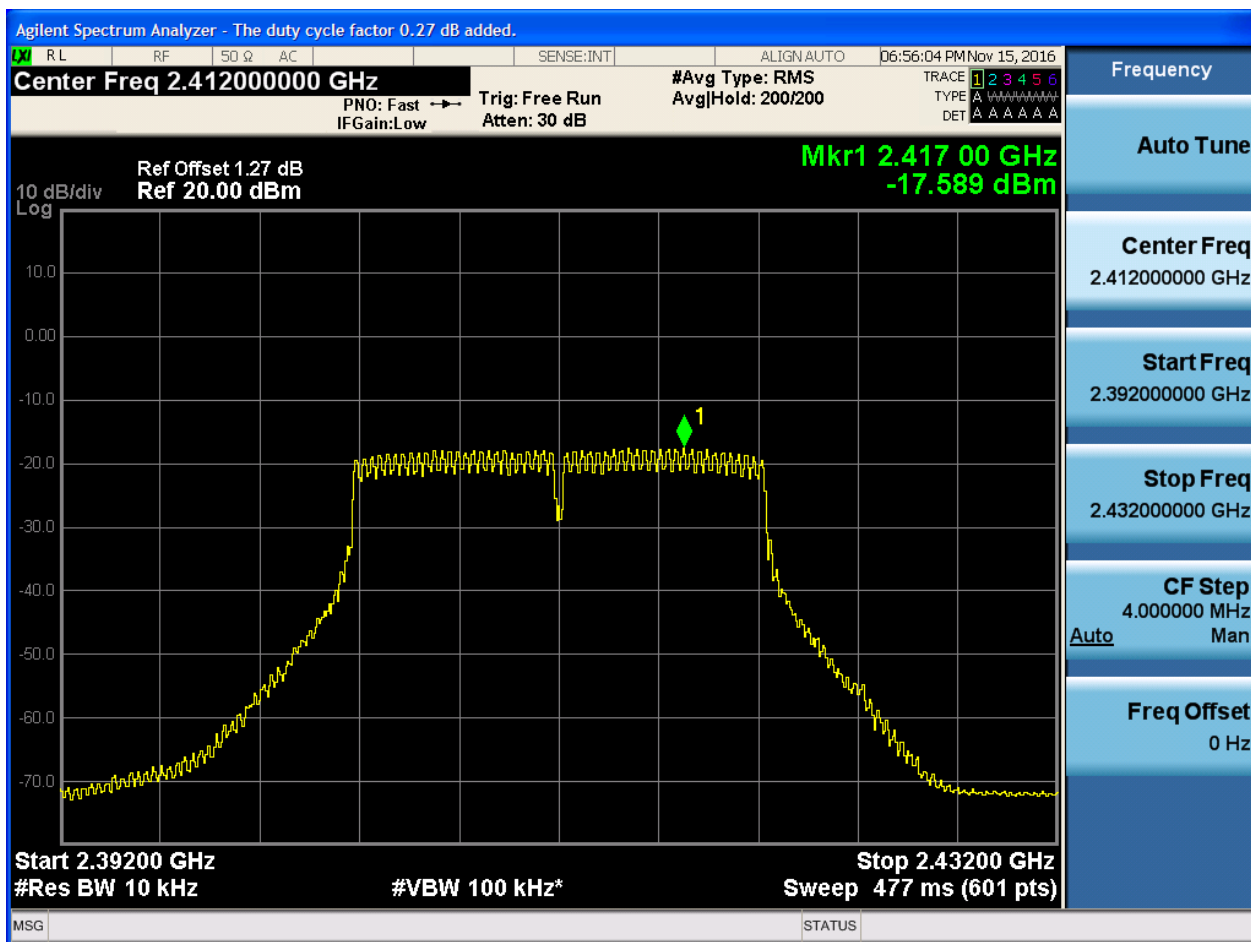


2.6 11B_H@Ant 2



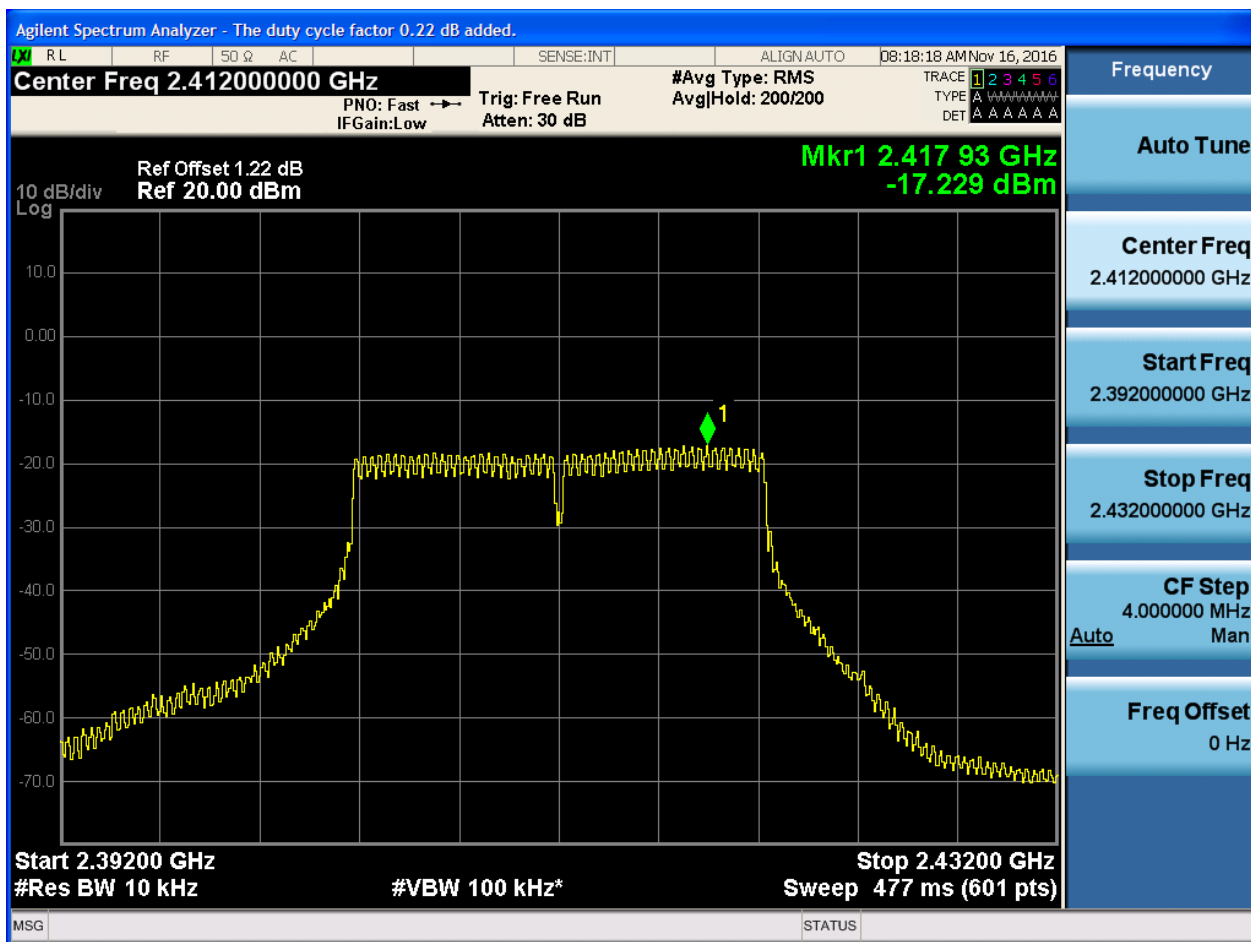


2.7 11G_L@Ant 1



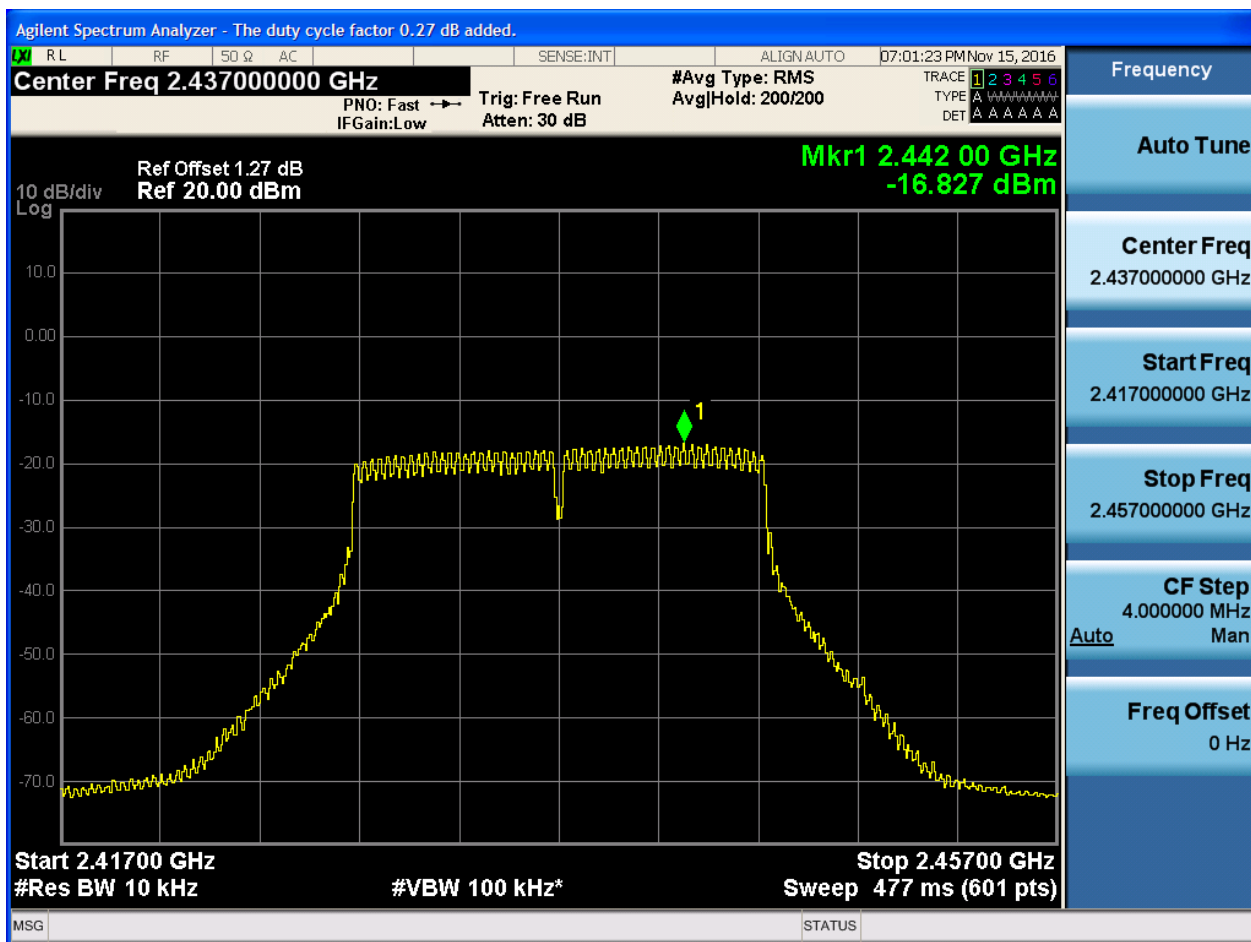


2.8 11G_L@Ant 2



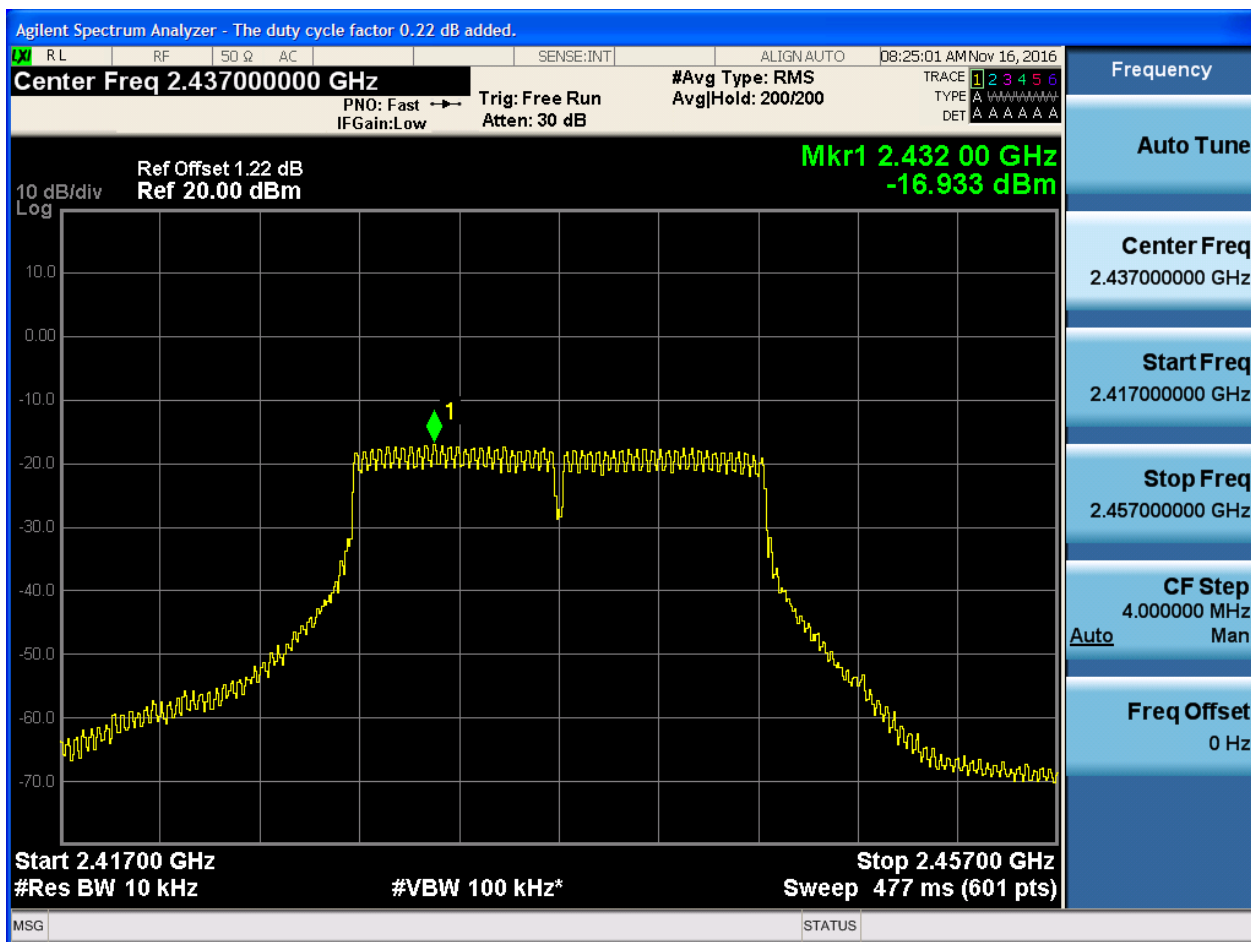


2.9 11G_M@Ant 1



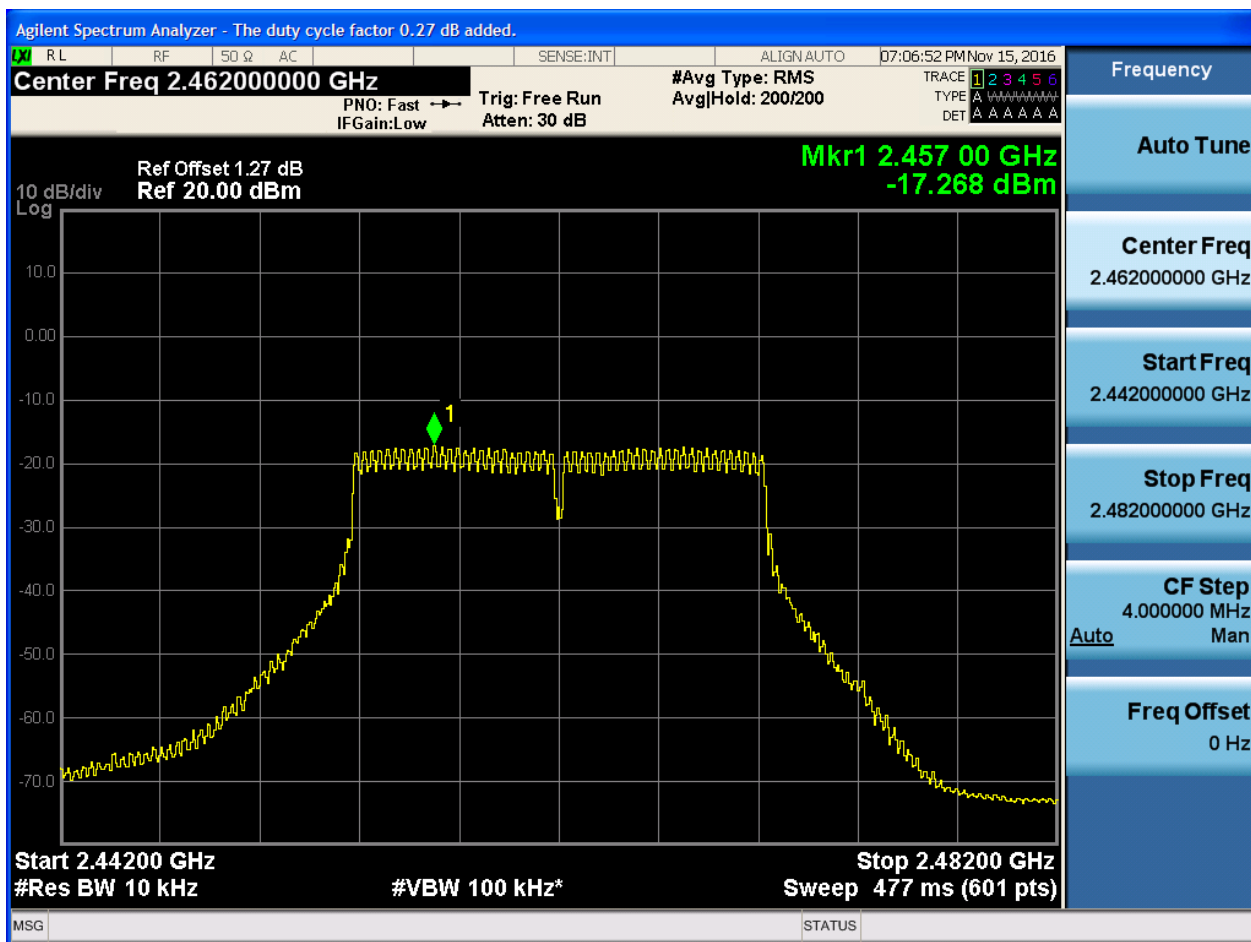


2.10 11G_M@Ant 2



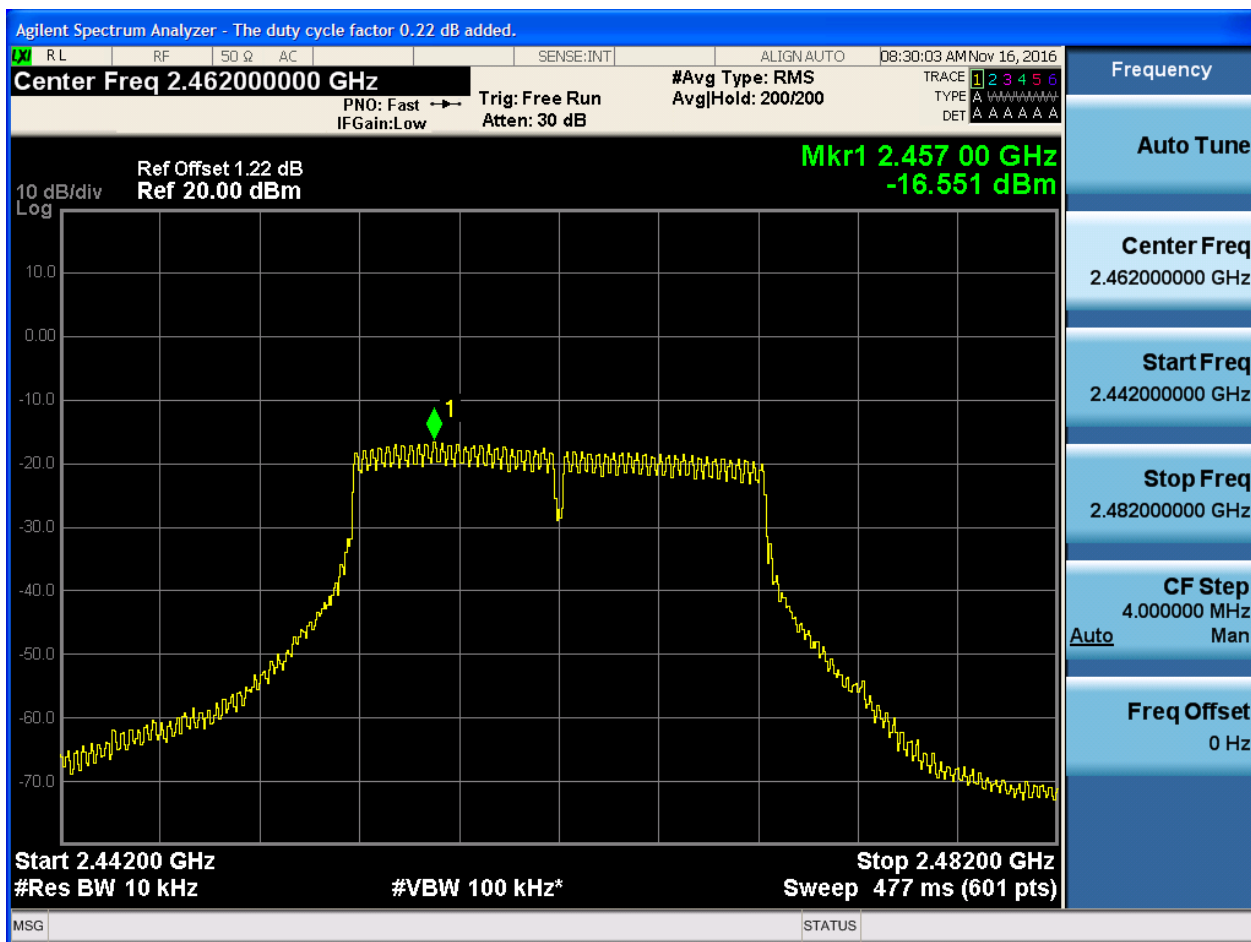


2.11 11G_H@Ant 1



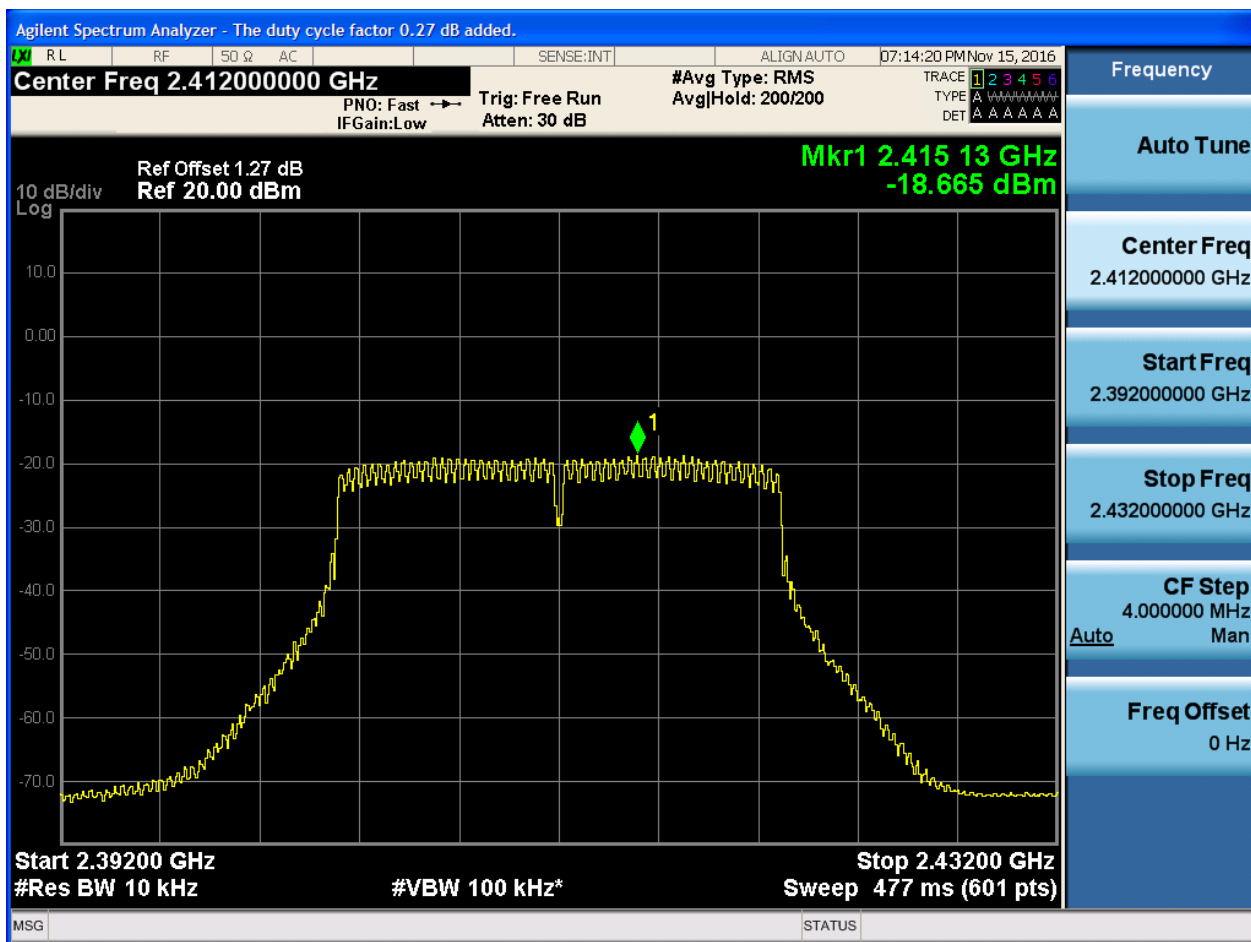


2.12 11G_H@Ant 2



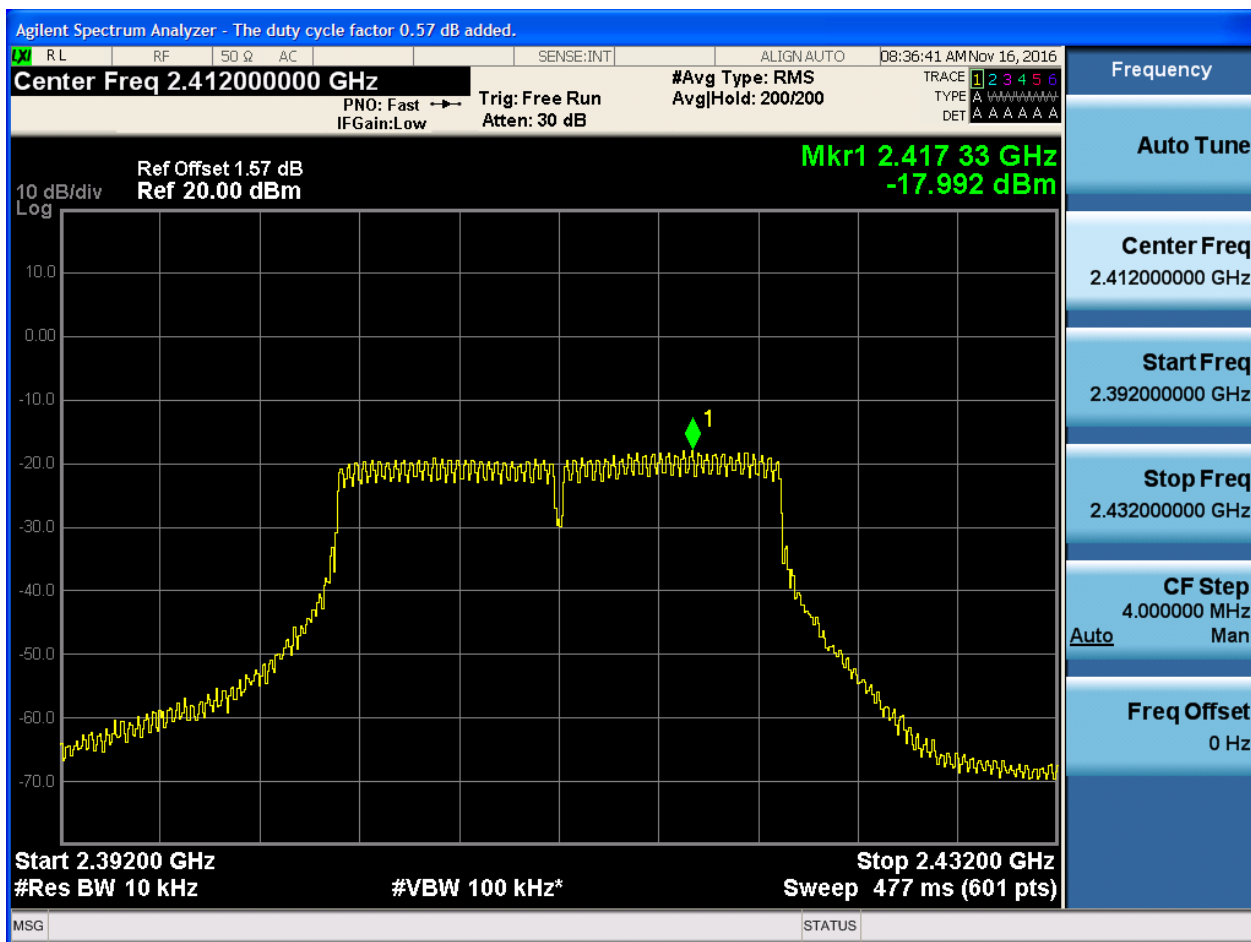


2.13 11N20_L@Ant 1



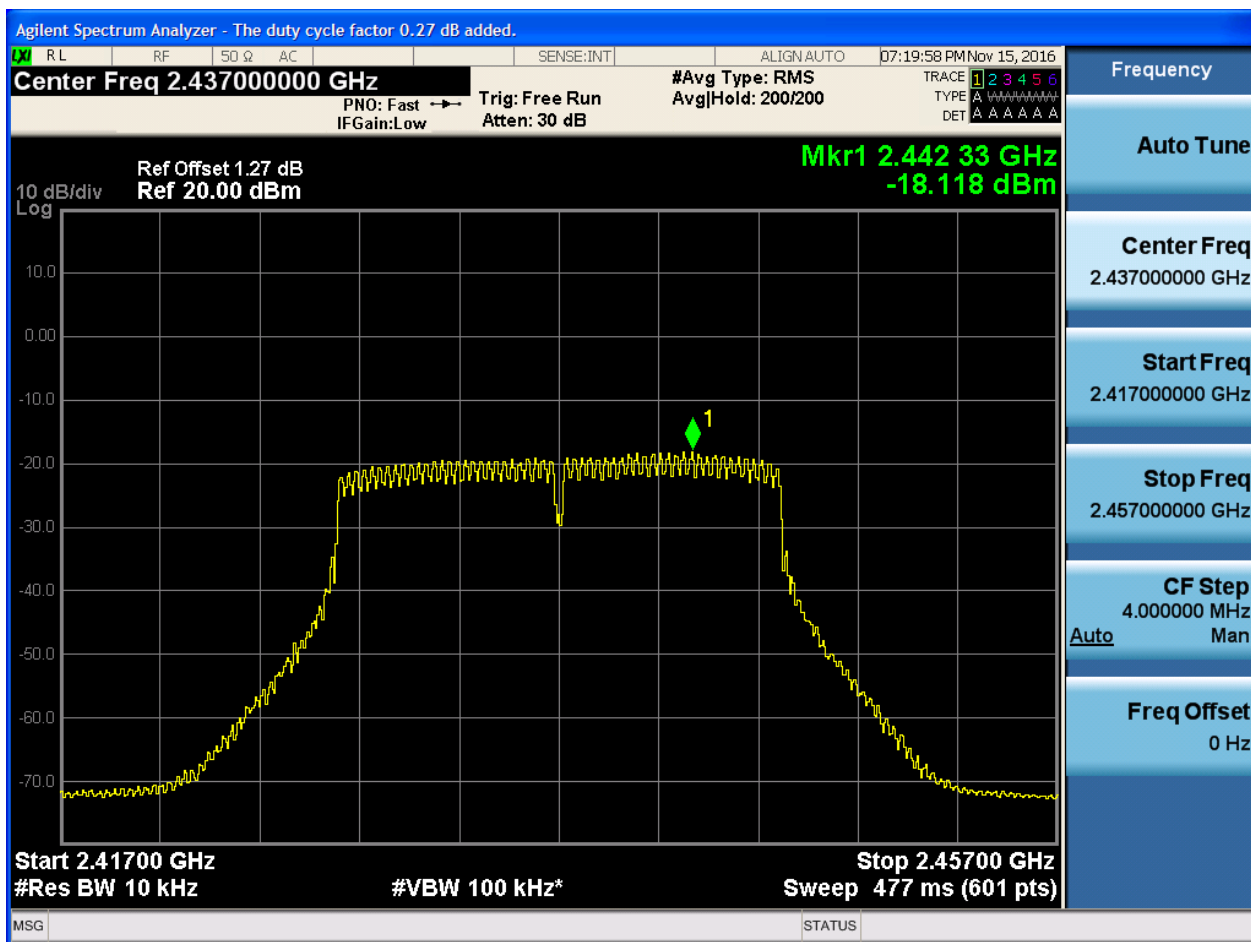


2.14 11N20_L@Ant 2



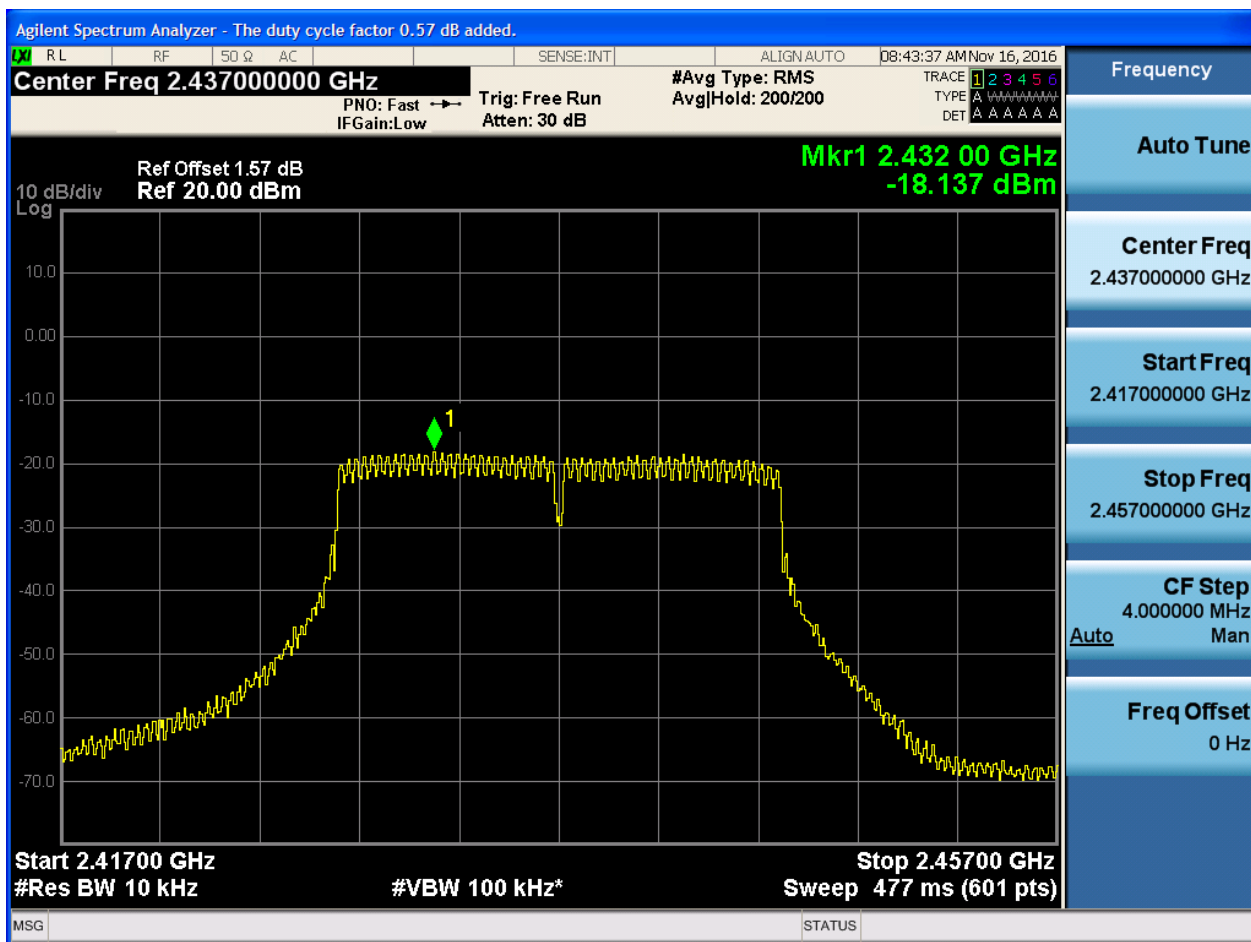


2.15 11N20_M@Ant 1



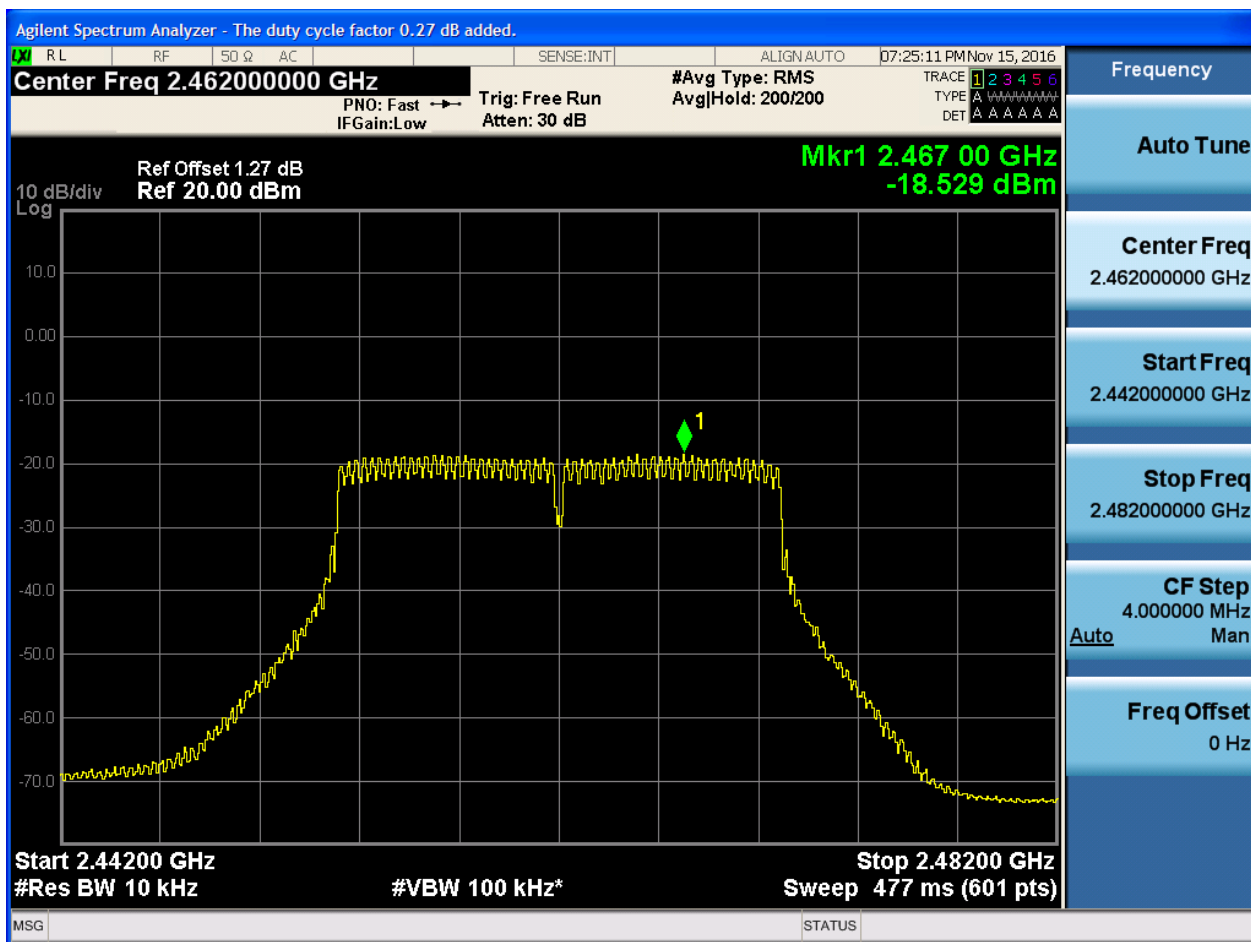


2.16 11N20_M@Ant 2



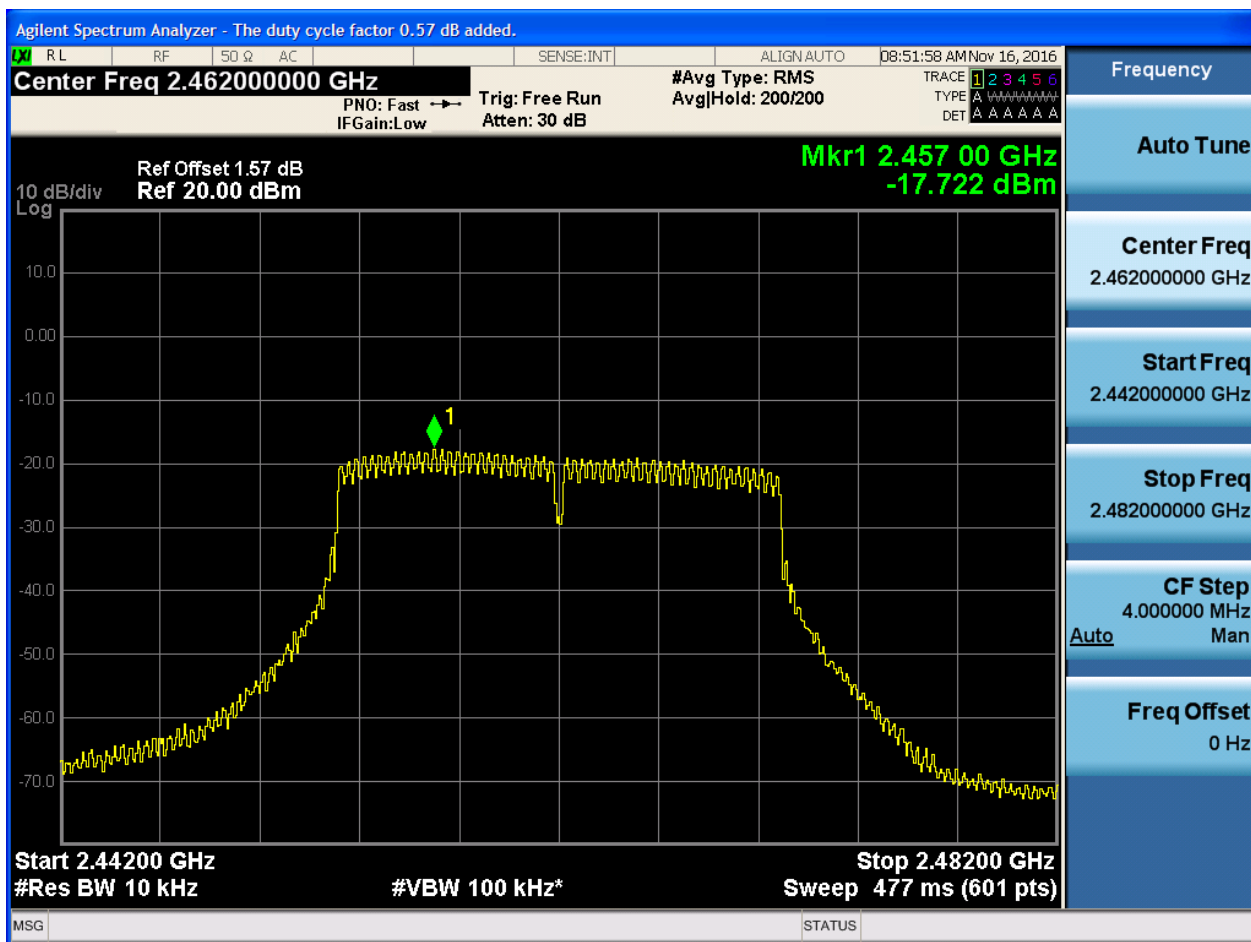


2.17 11N20_H@Ant 1



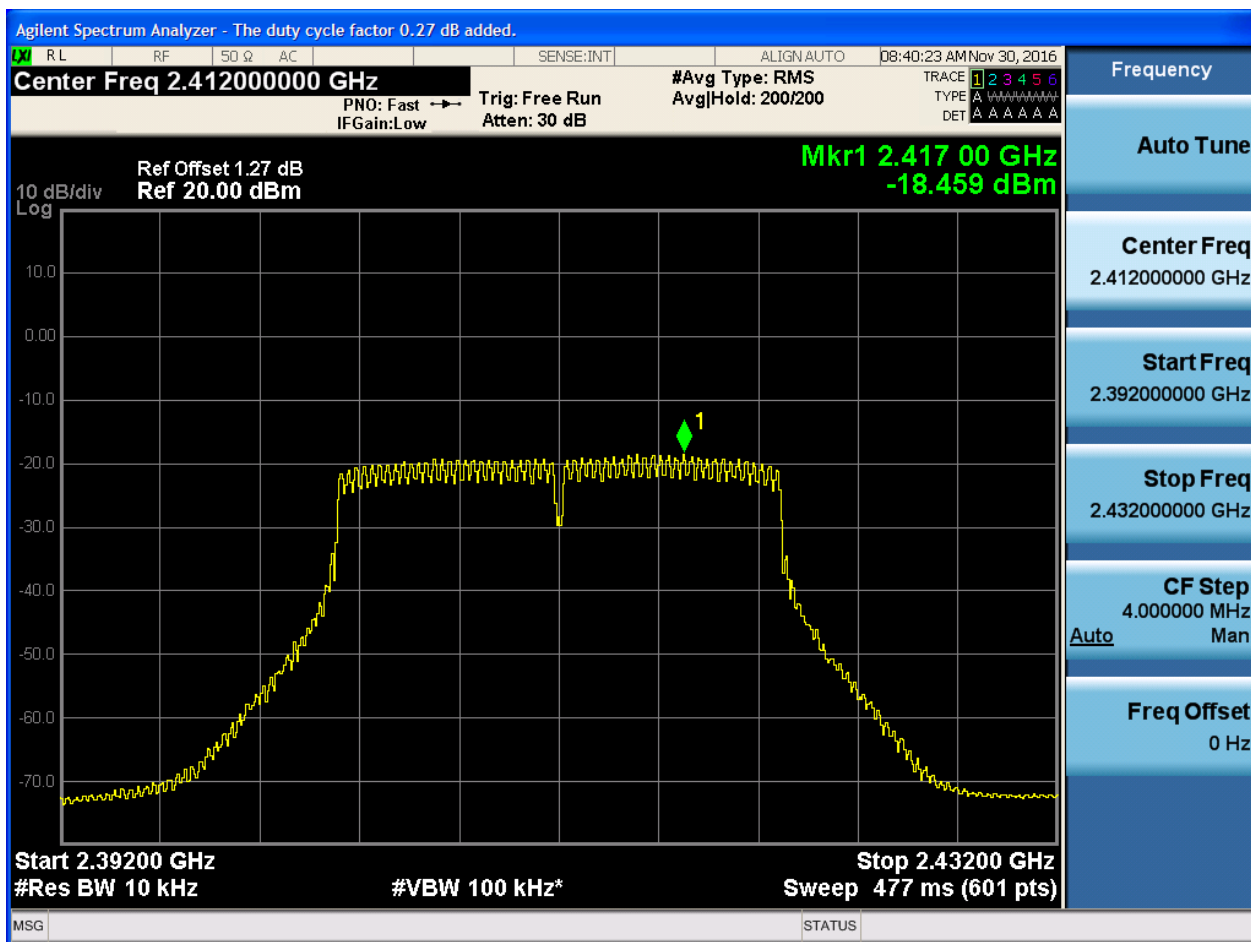


2.18 11N20_H@Ant 2



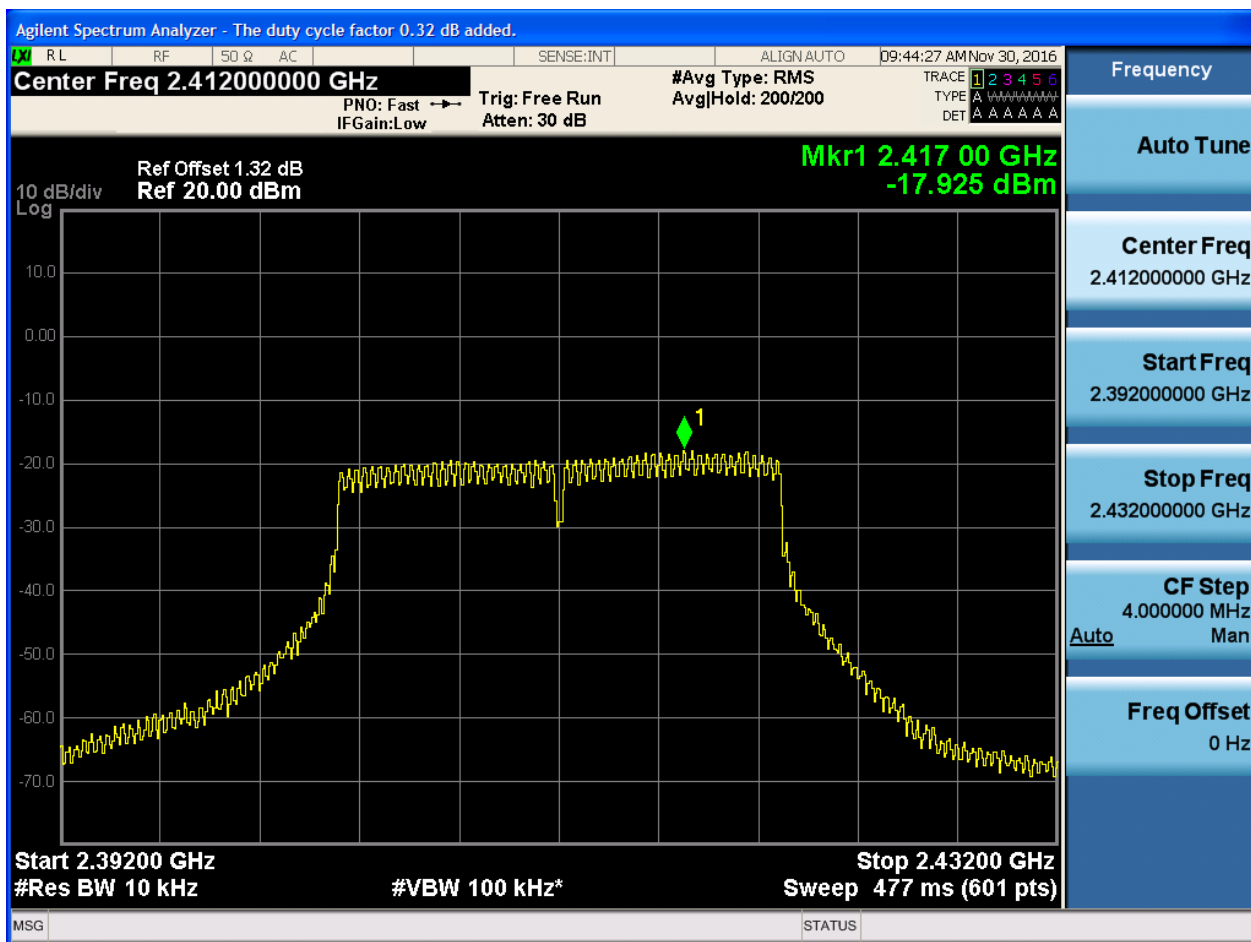


2.19 11N20m_L@Ant 1



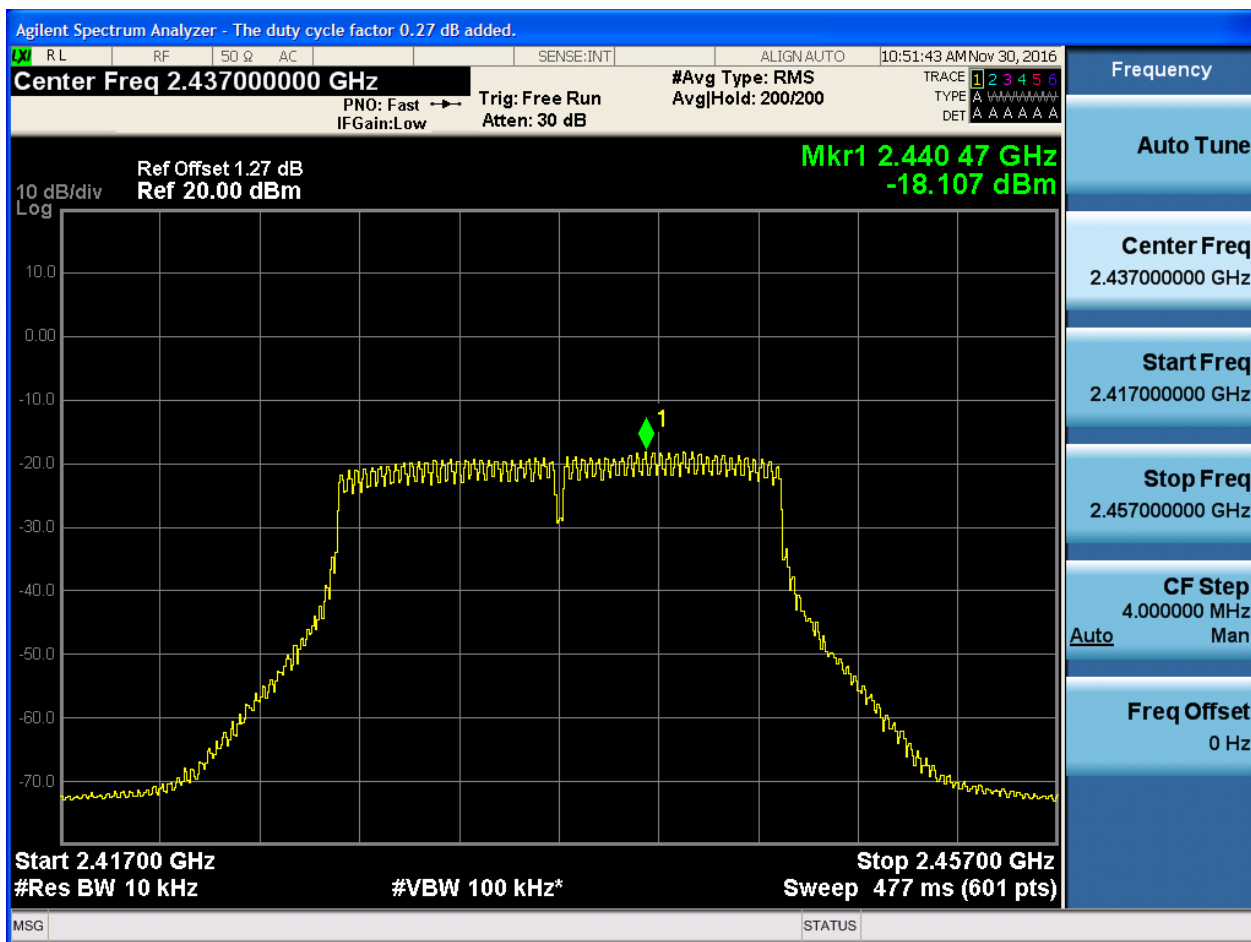


2.20 11N20m_L@Ant 2



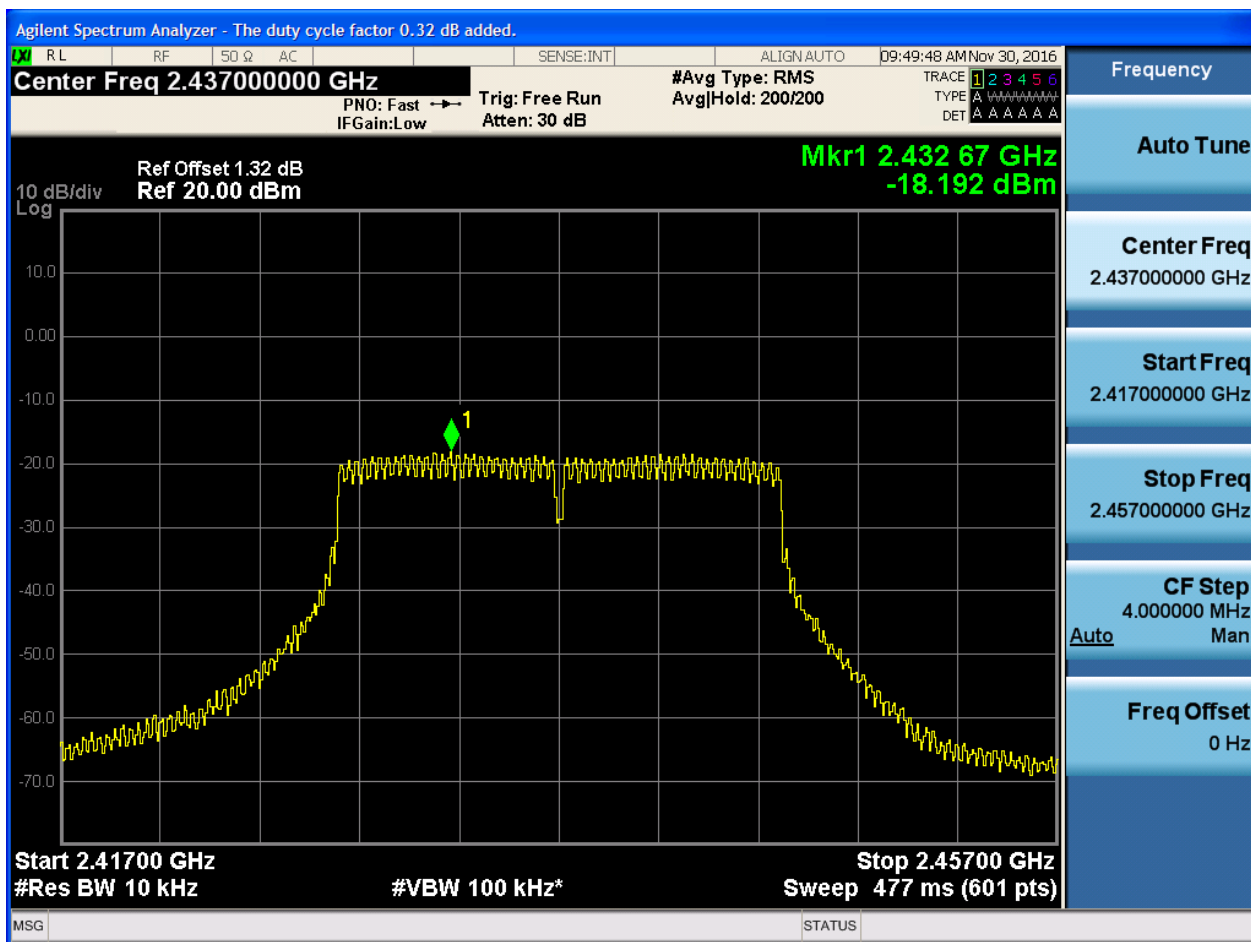


2.21 11N20m_M@Ant 1



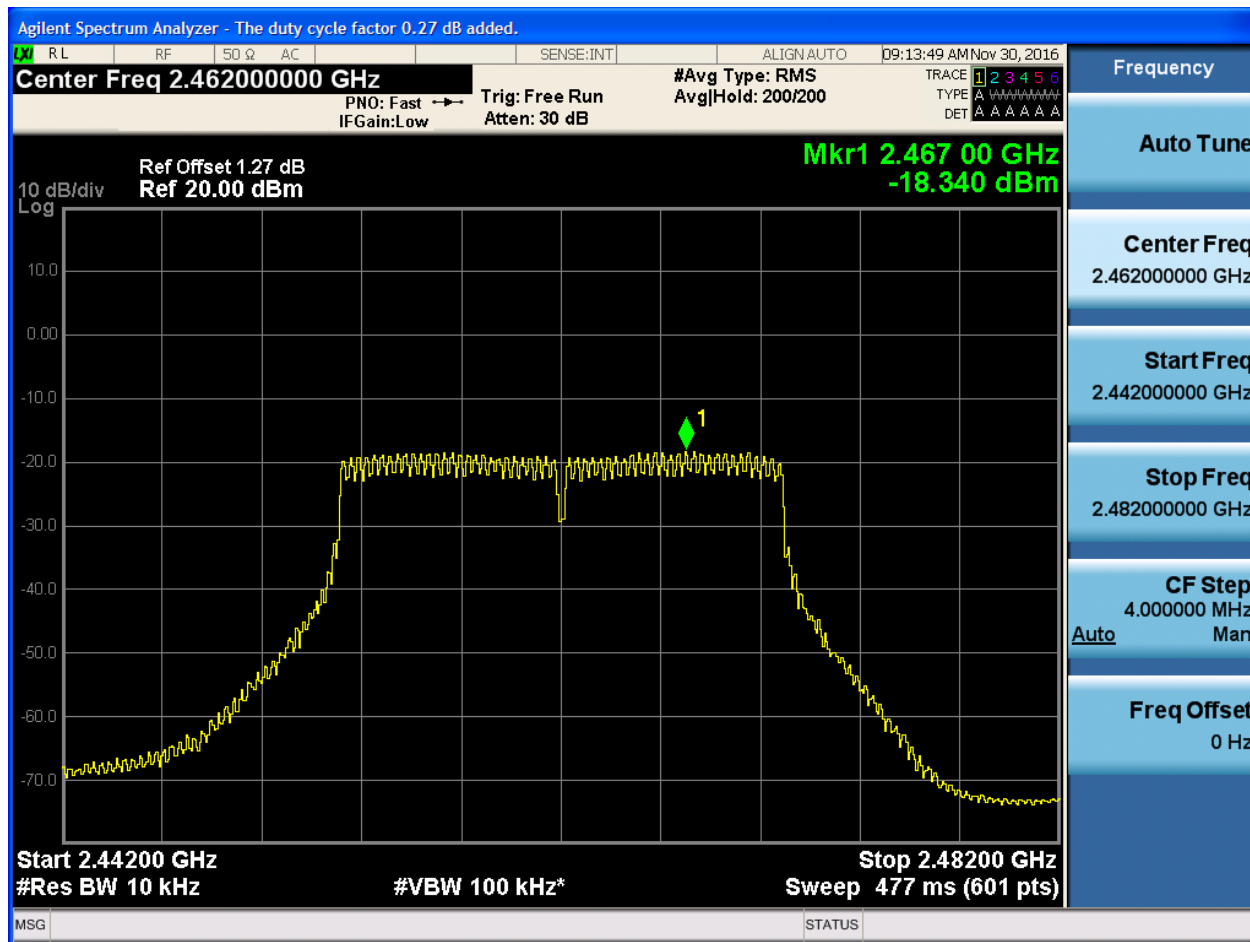


2.22 11N20m_M@Ant 2



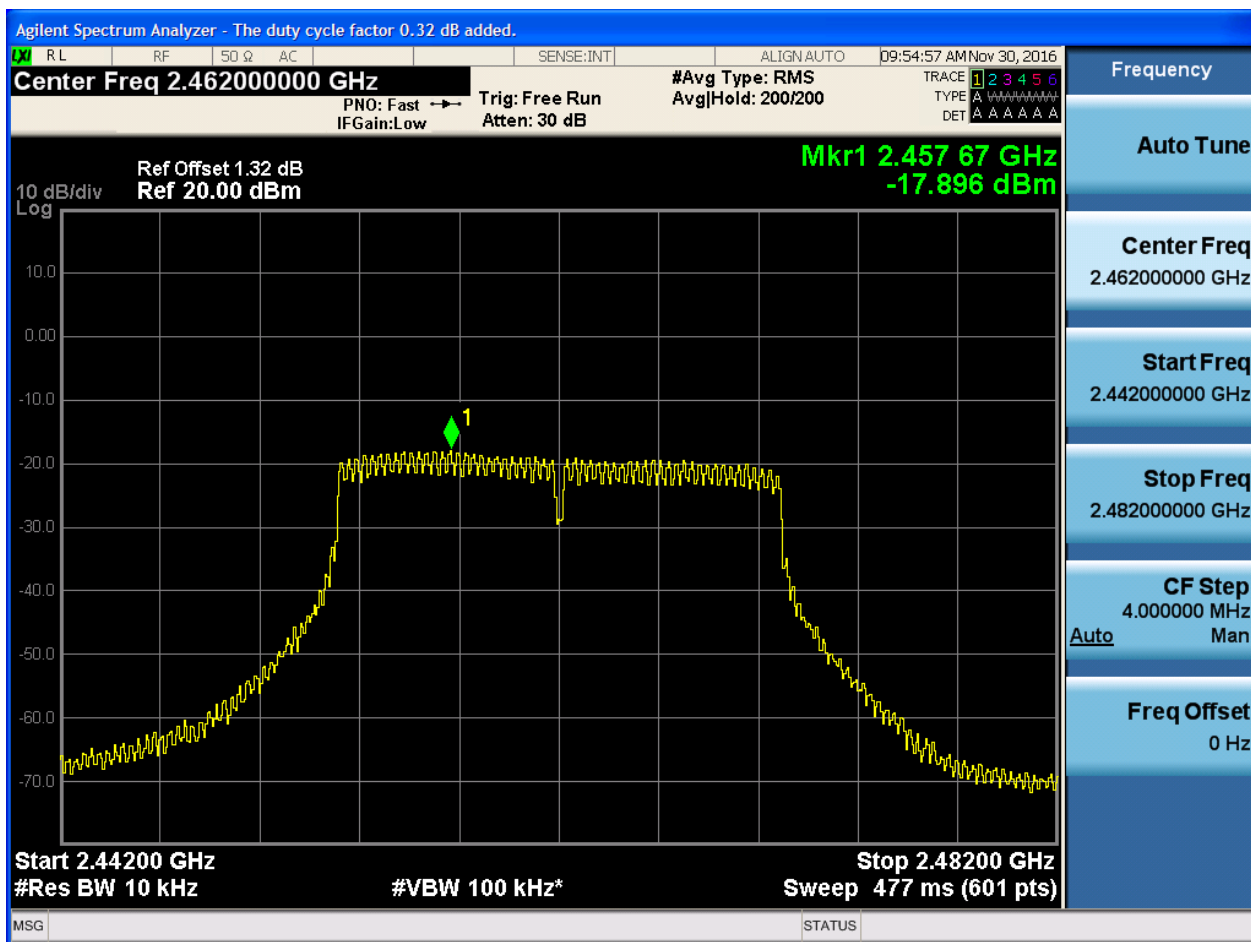


2.23 11N20m_H@Ant 1



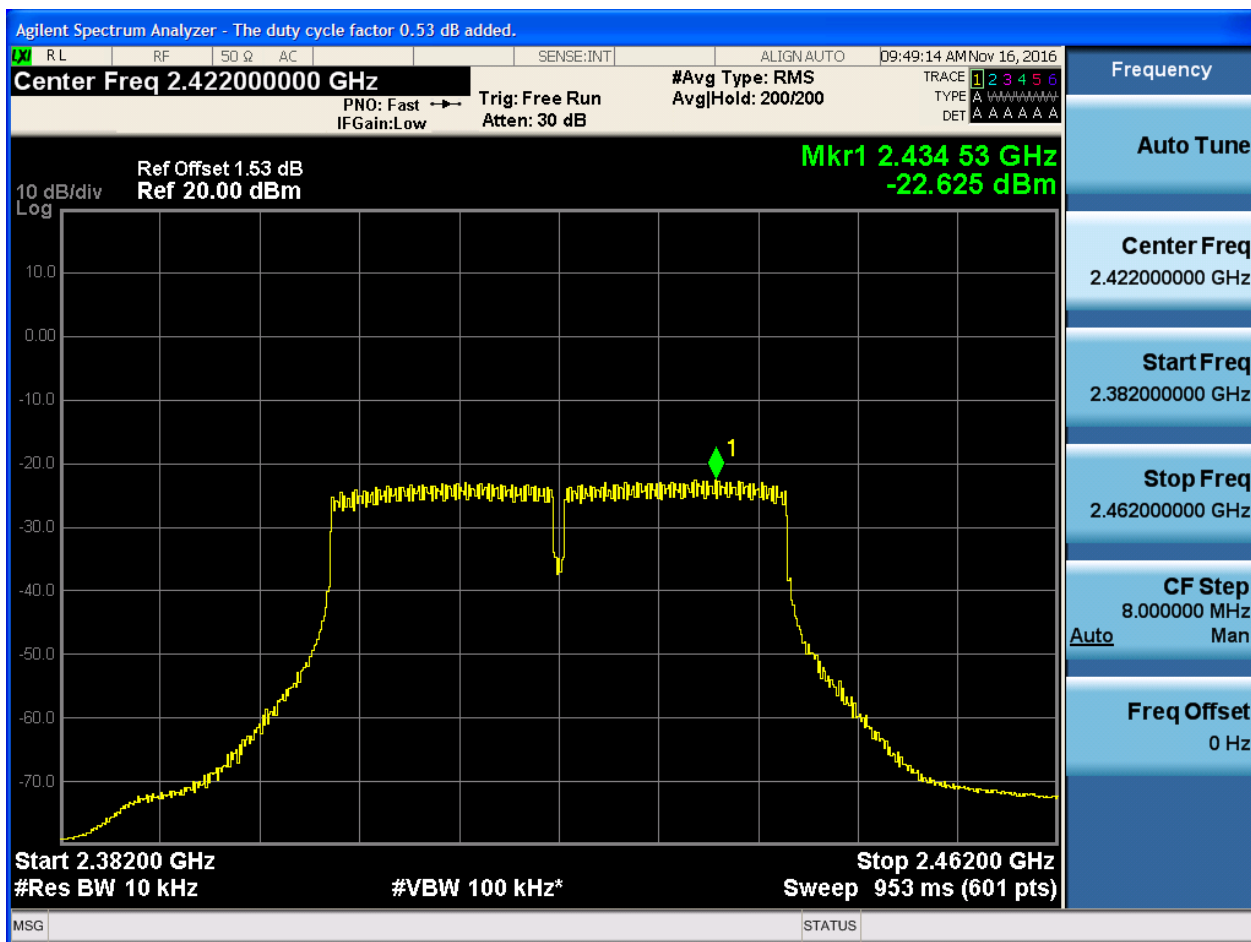


2.24 11N20m_H@Ant 2



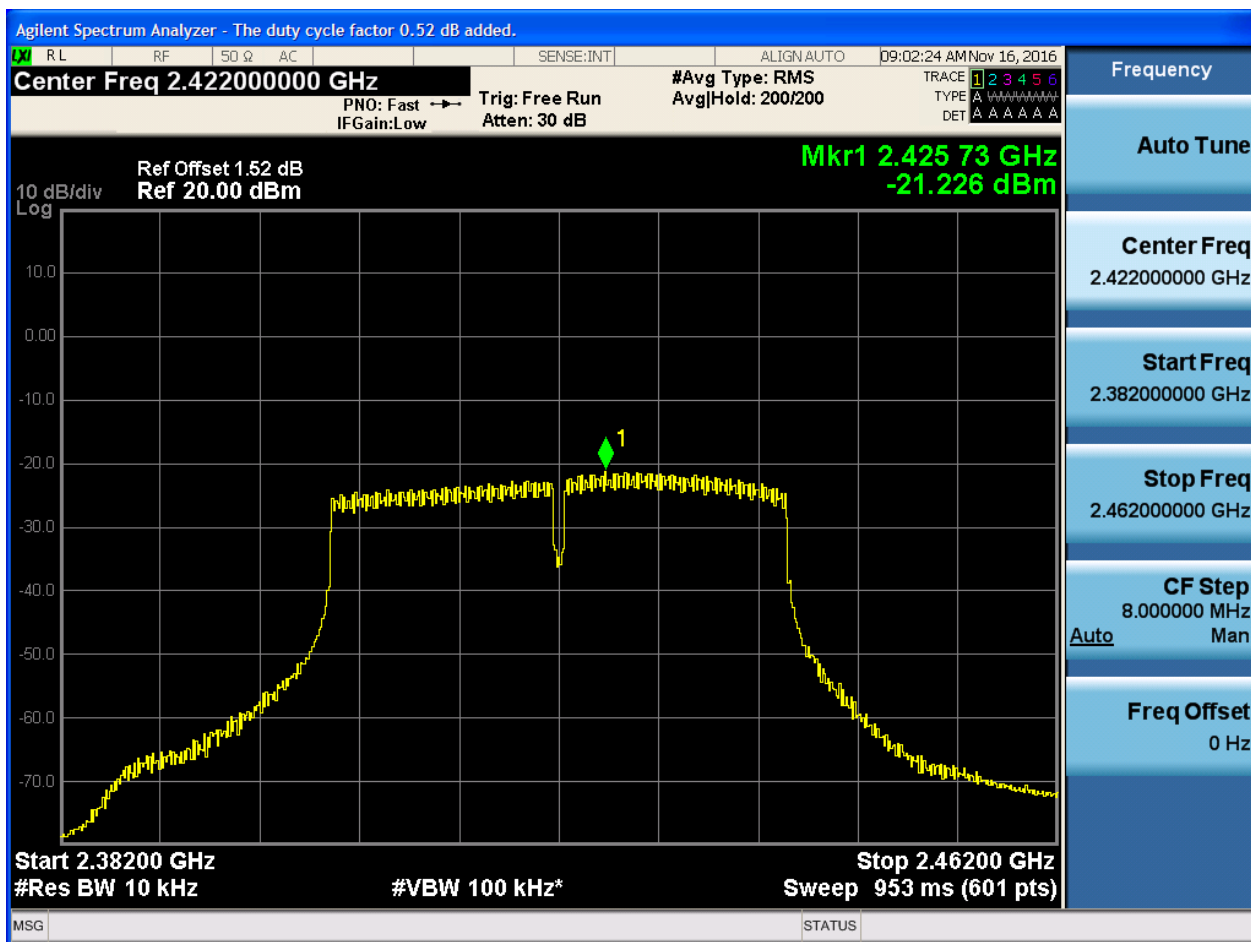


2.25 11N40_L@Ant 1



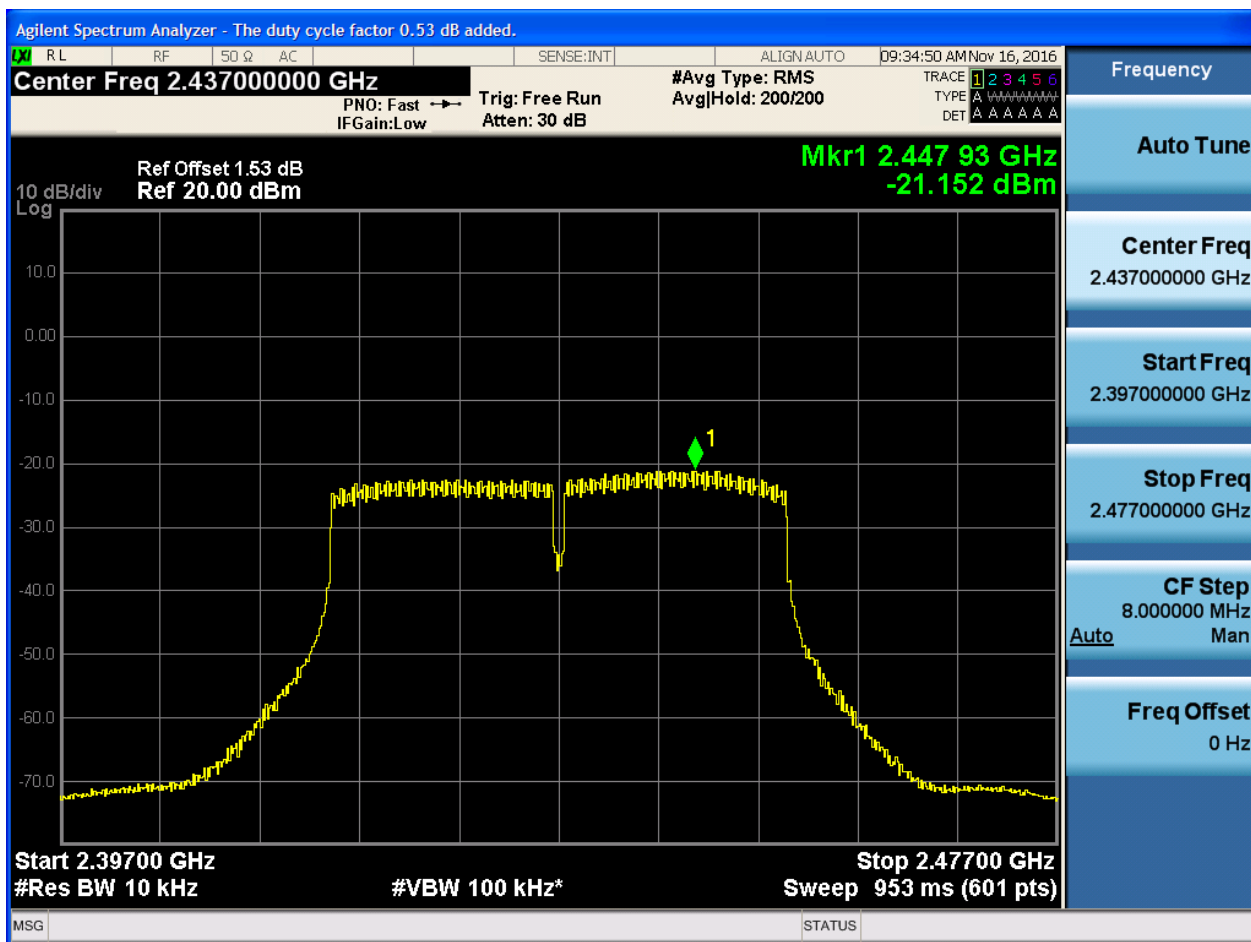


2.26 11N40_L@Ant 2



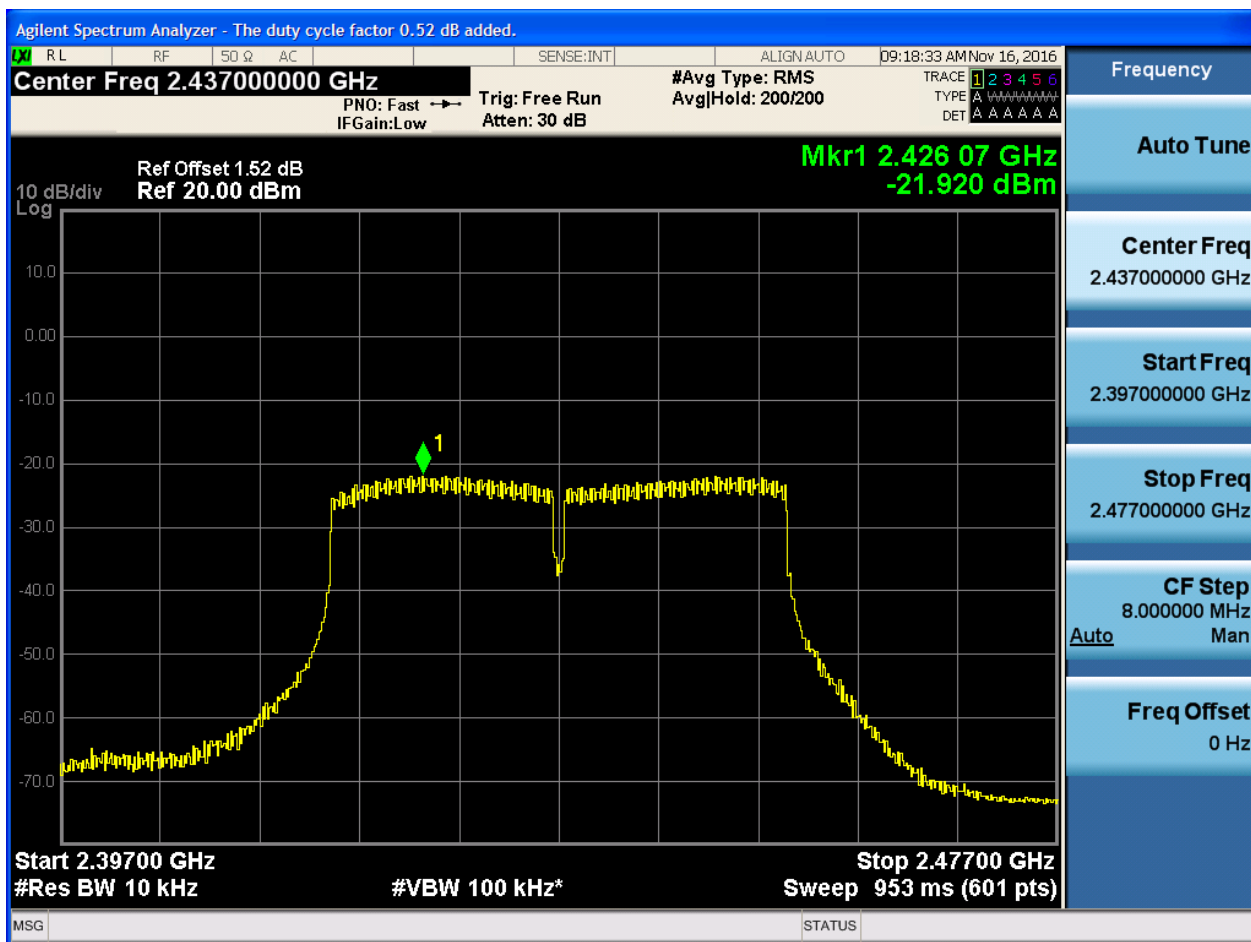


2.27 11N40_M@Ant 1



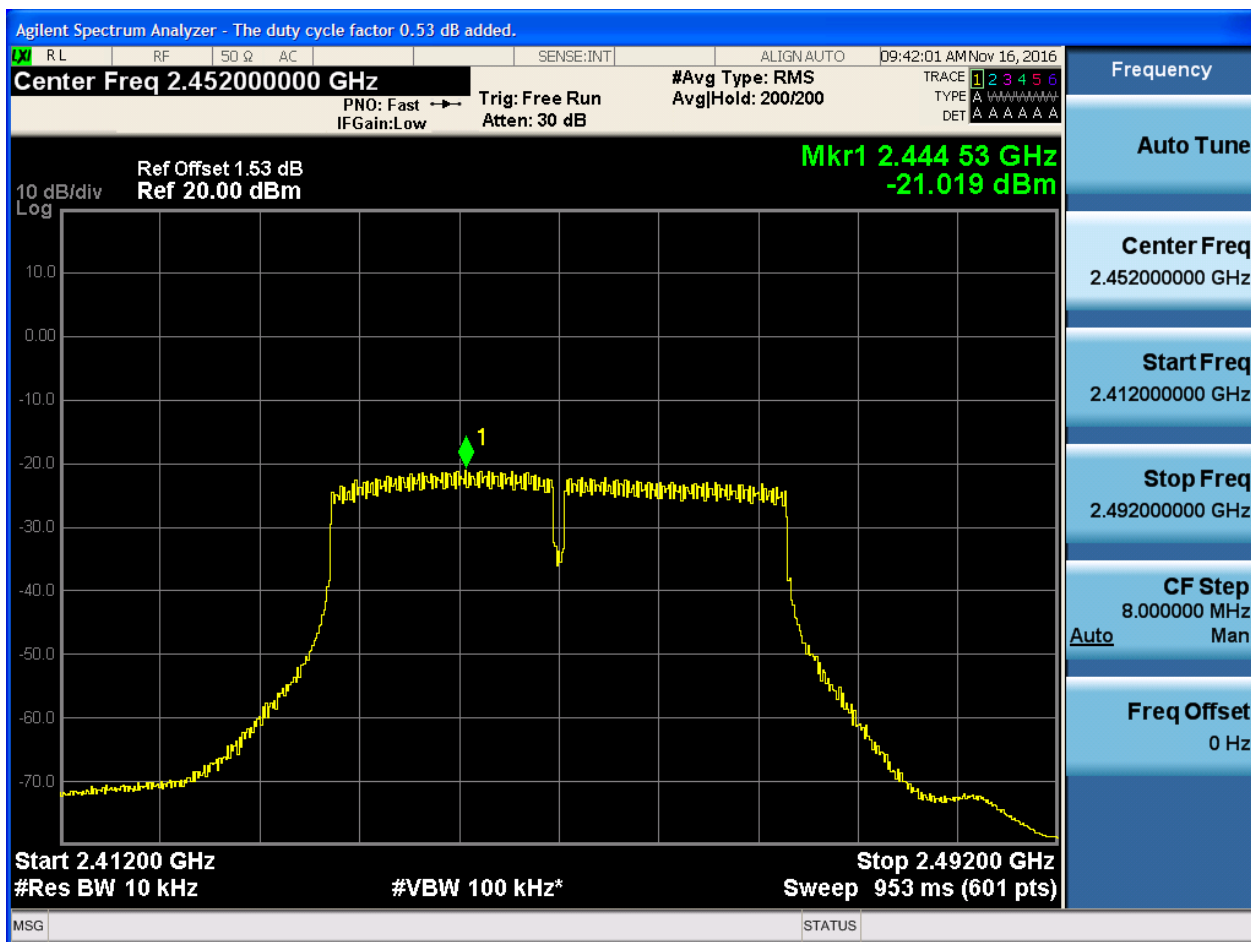


2.28 11N40_M@Ant 2



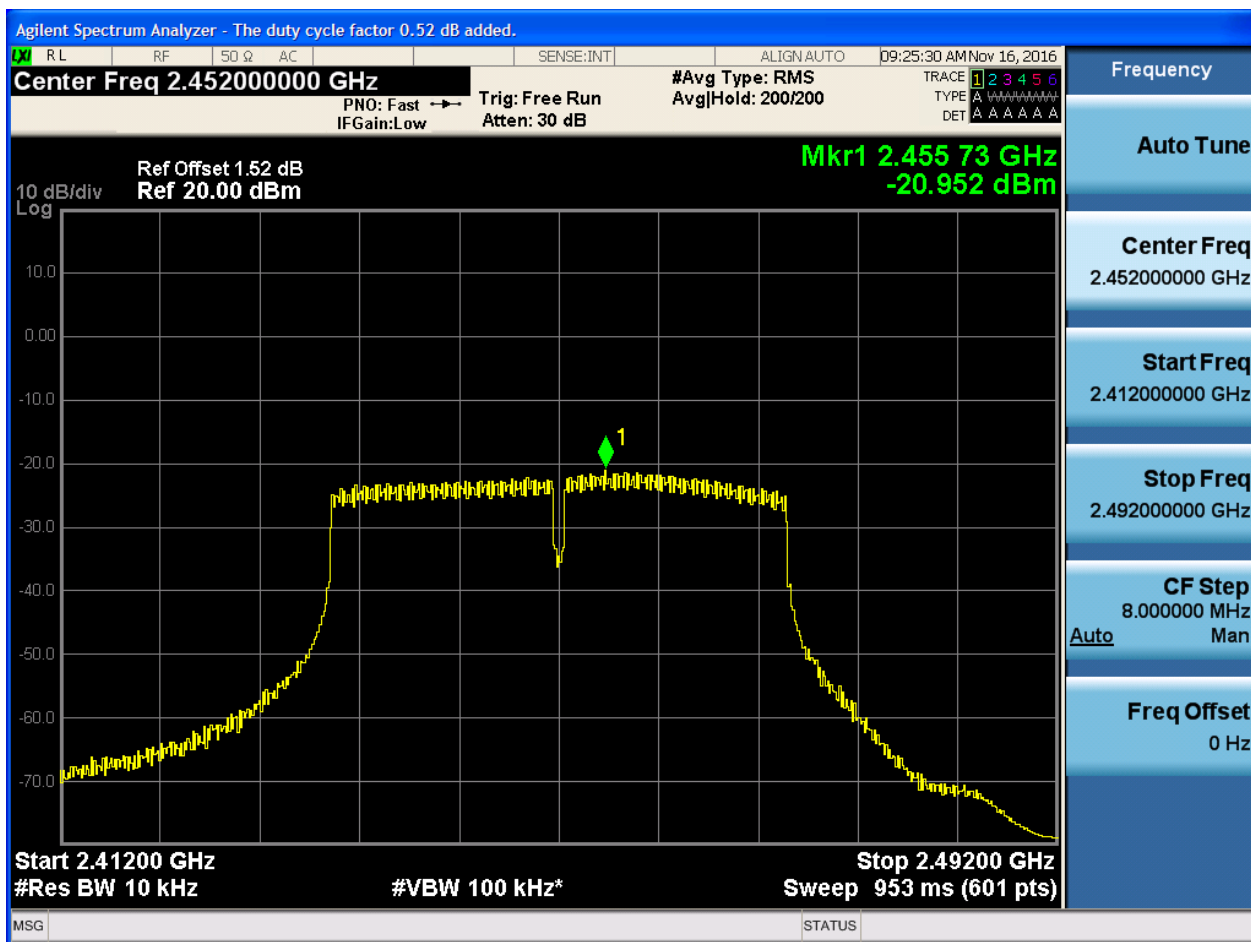


2.29 11N40_H@Ant 1



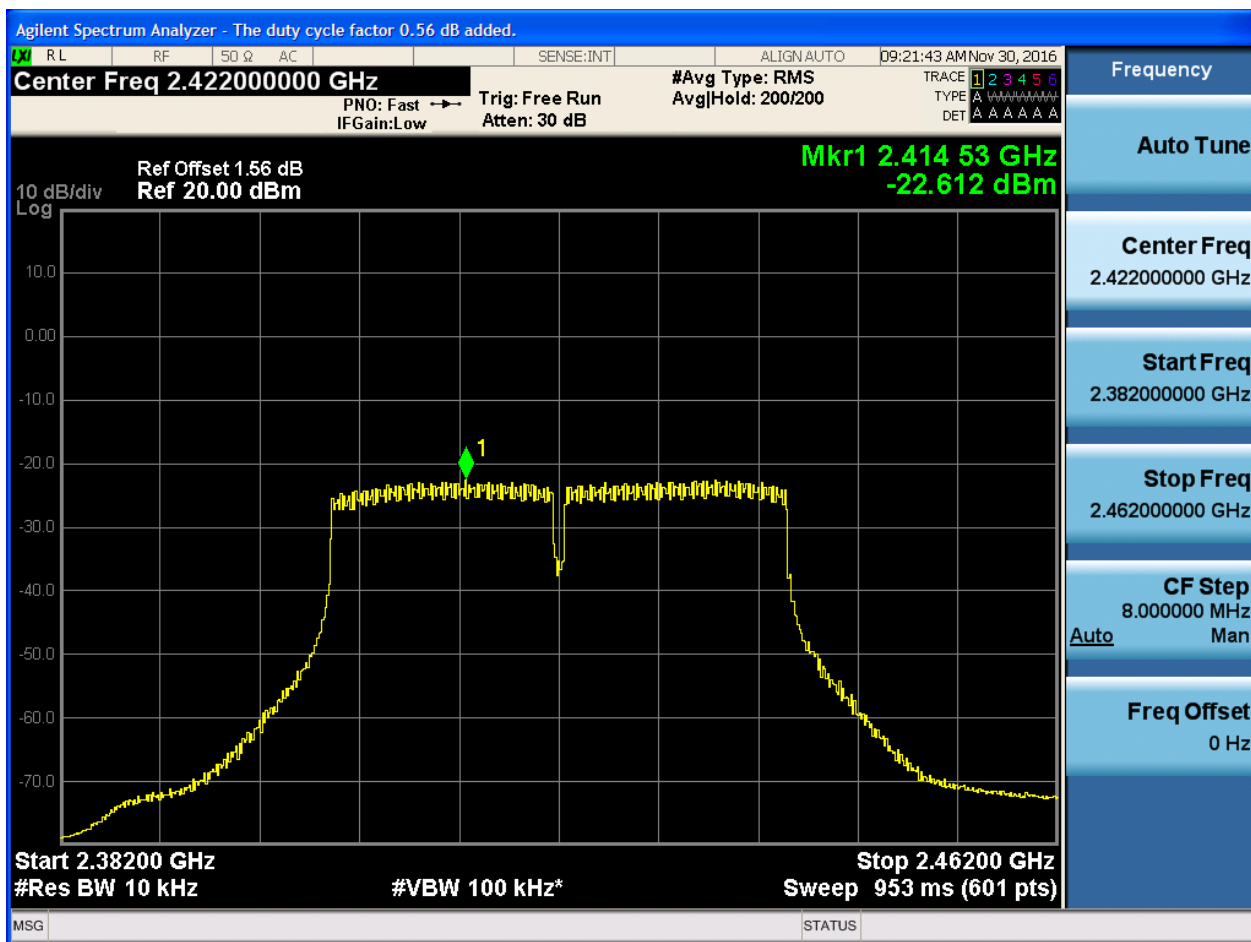


2.30 11N40_H@Ant 2



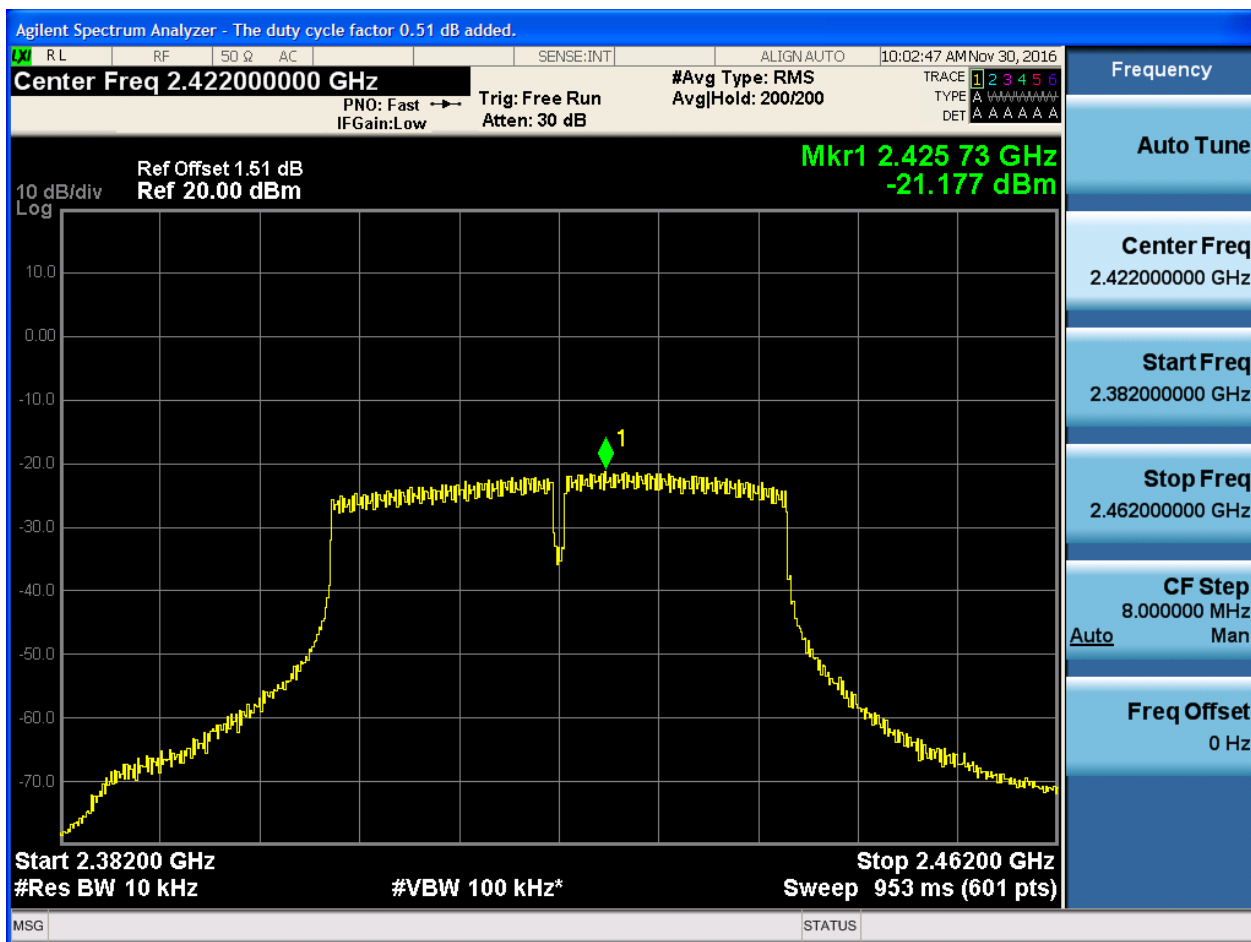


2.31 11N40m_L@Ant 1



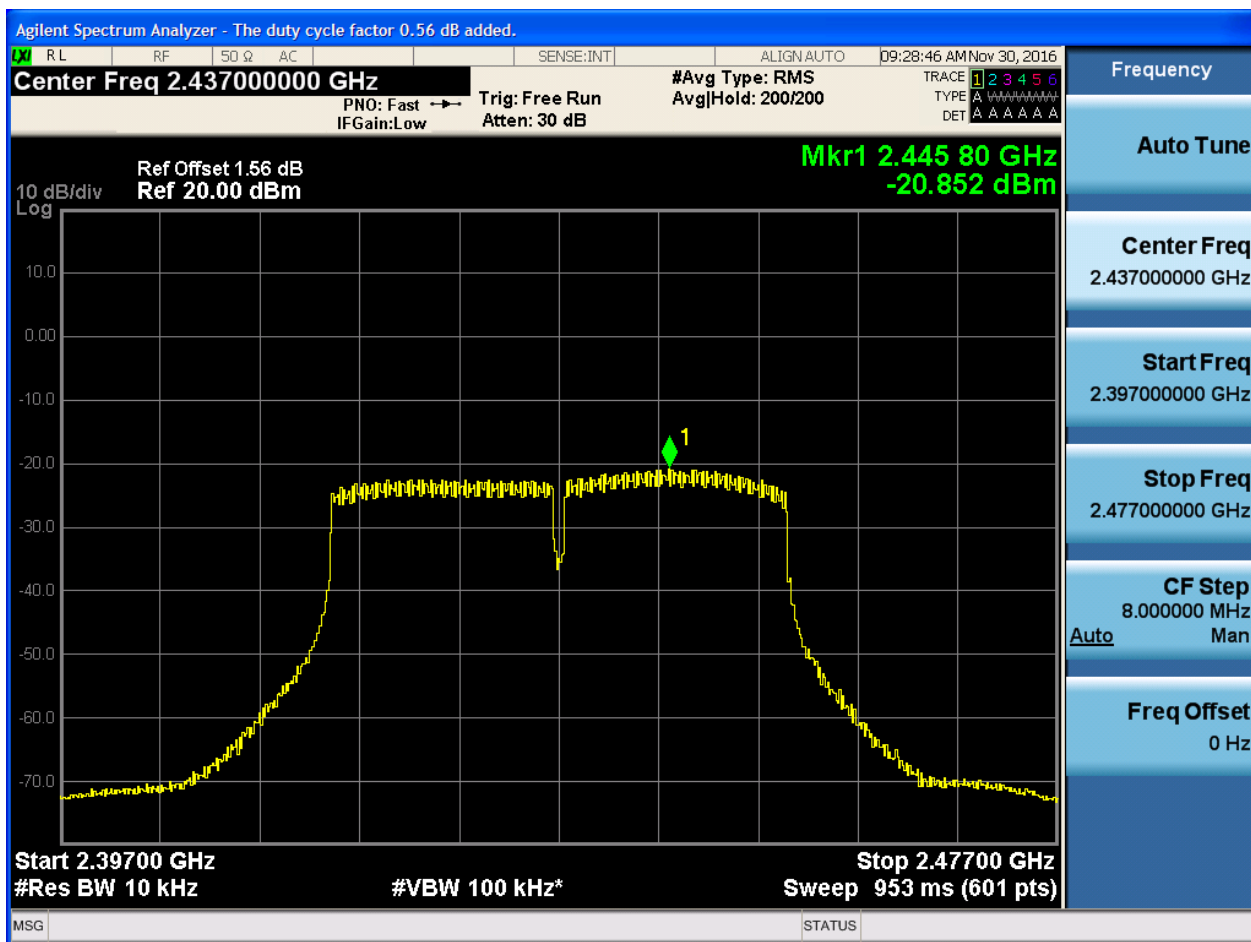


2.32 11N40m_L@Ant 2



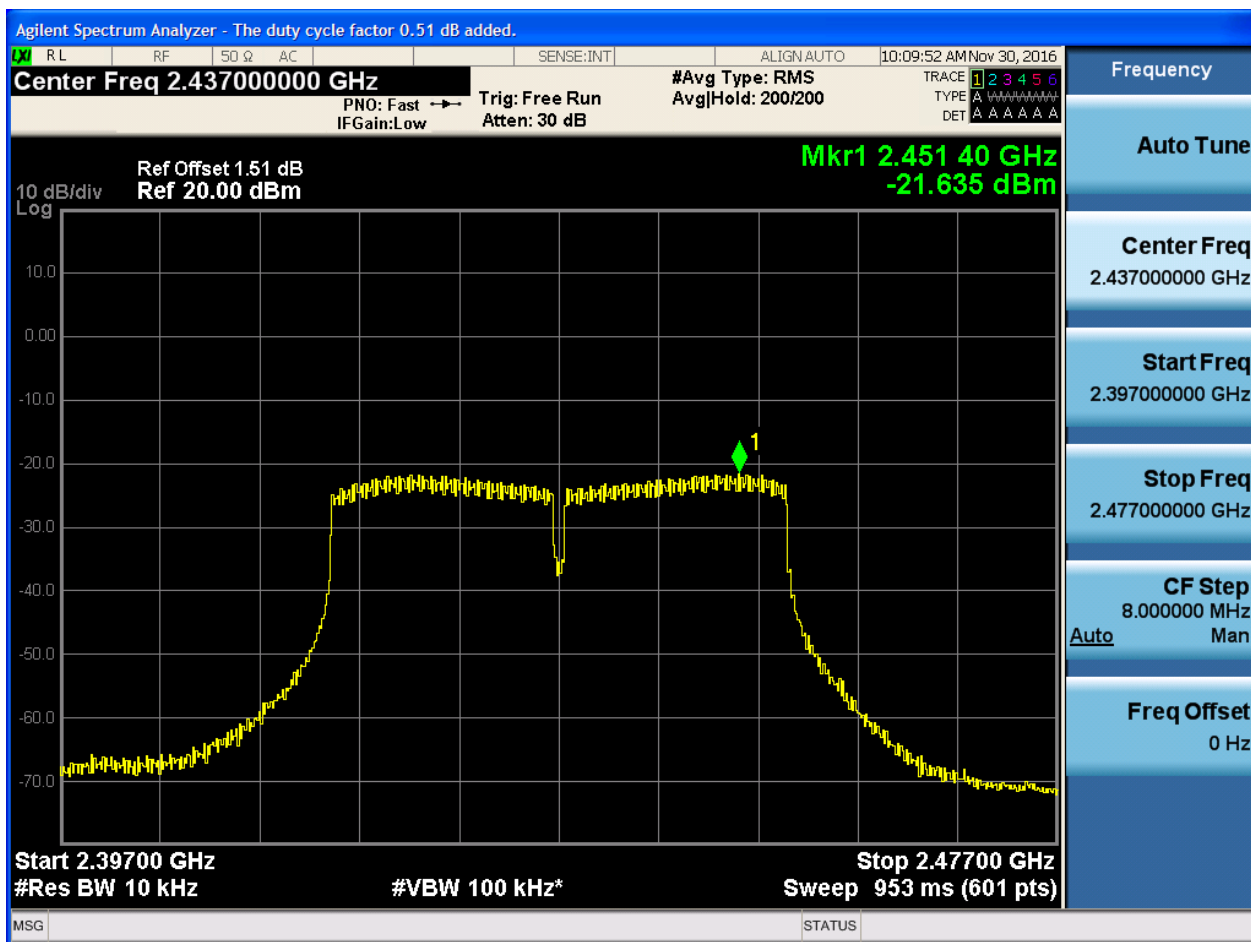


2.33 11N40m_M@Ant 1



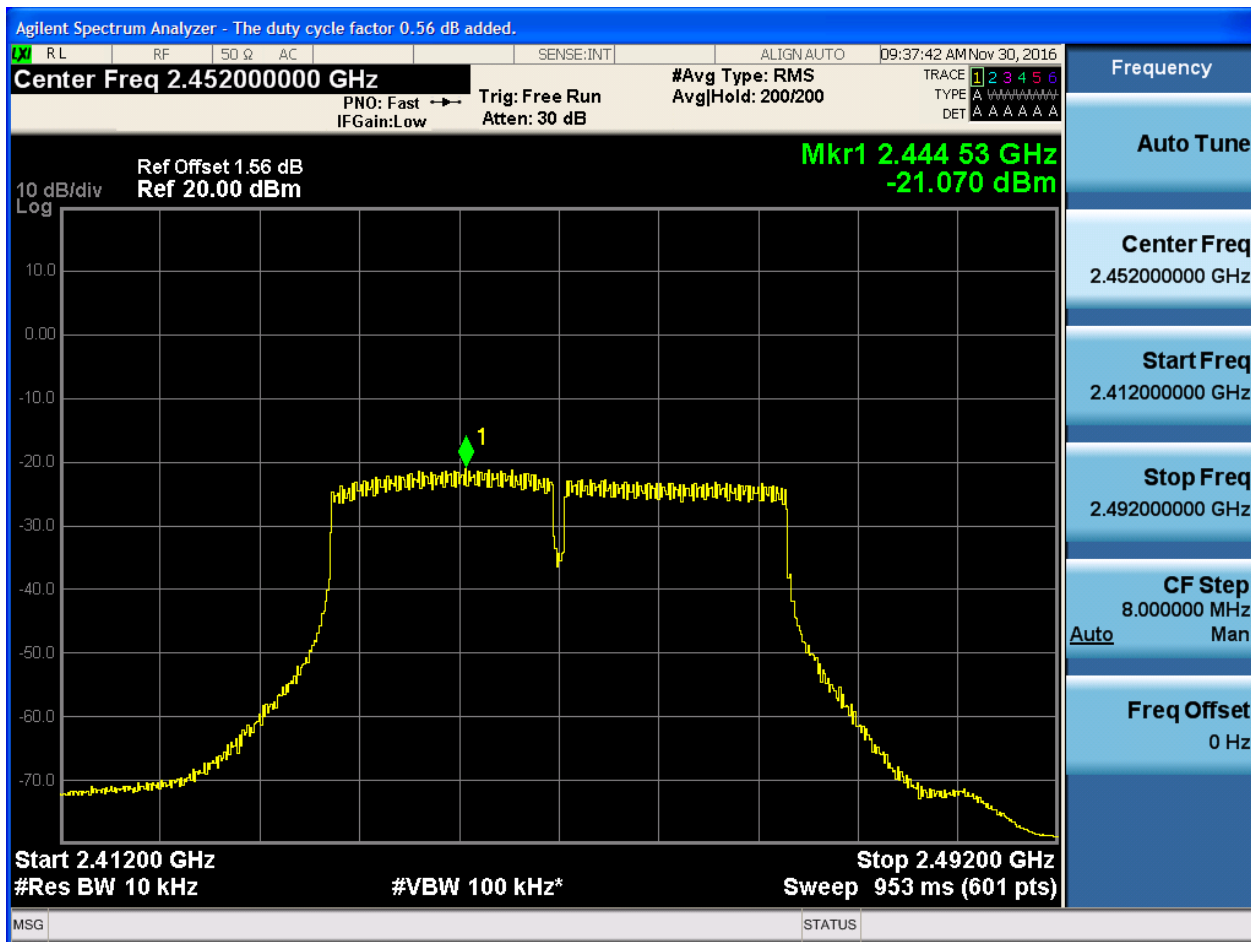


2.34 11N40m_M@Ant 2



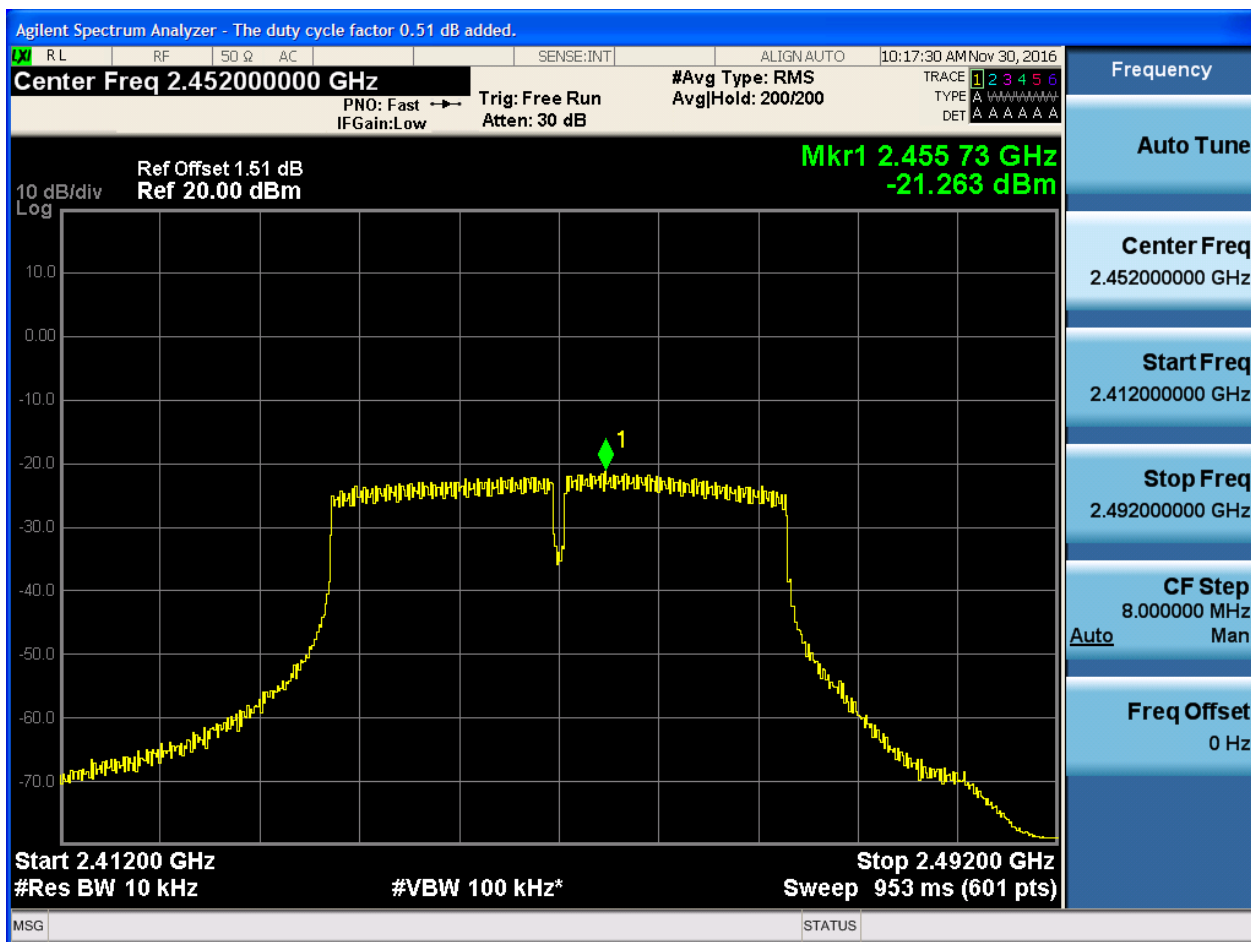


2.35 11N40m_H@Ant 1





2.36 11N40m_H@Ant 2



Appendix F: Band Edges Compliance

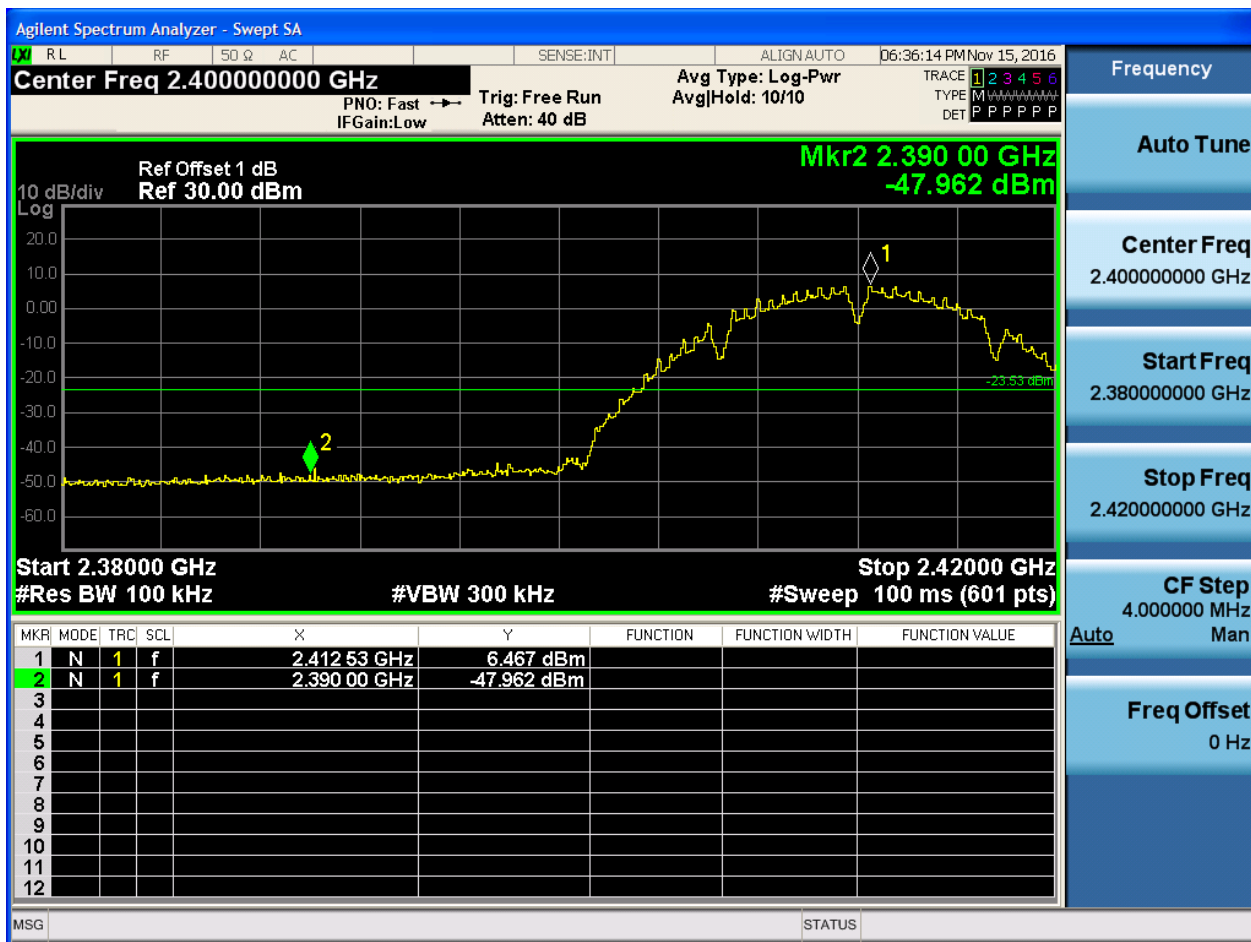
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
11B	L	2412	Ant 1	6.47	-47.96	pass
11B	L	2412	Ant 2	8.22	-49.15	pass
11B	H	2462	Ant 1	6.57	-48.22	pass
11B	H	2462	Ant 2	7.57	-48.95	pass
11G	L	2412	Ant 1	1.55	-49.21	pass
11G	L	2412	Ant 2	1.92	-47.04	pass
11G	H	2462	Ant 1	1.70	-49.13	pass
11G	H	2462	Ant 2	2.51	-46.63	pass
11N20	L	2412	Ant 1	0.84	-49.36	pass
11N20	L	2412	Ant 2	0.92	-46.61	pass
11N20	H	2462	Ant 1	1.18	-48.72	pass
11N20	H	2462	Ant 2	1.61	-47.54	pass
11N20m	L	2412	Ant 1	0.24	-48.33	pass
11N20m	L	2412	Ant 2	1.44	-47.93	pass
11N20m	H	2462	Ant 1	1.21	-48.48	pass
11N20m	H	2462	Ant 2	1.28	-47.94	pass
11N40	L	2422	Ant 1	-3.41	-48.78	pass
11N40	L	2422	Ant 2	-3.22	-44.84	pass
11N40	H	2452	Ant 1	-2.94	-48.49	pass
11N40	H	2452	Ant 2	-1.71	-46.90	pass
11N40m	L	2422	Ant 1	-3.32	-49.68	pass
11N40m	L	2422	Ant 2	-2.91	-47.29	pass
11N40m	H	2452	Ant 1	-3.20	-48.53	pass
11N40m	H	2452	Ant 2	-1.84	-46.18	pass



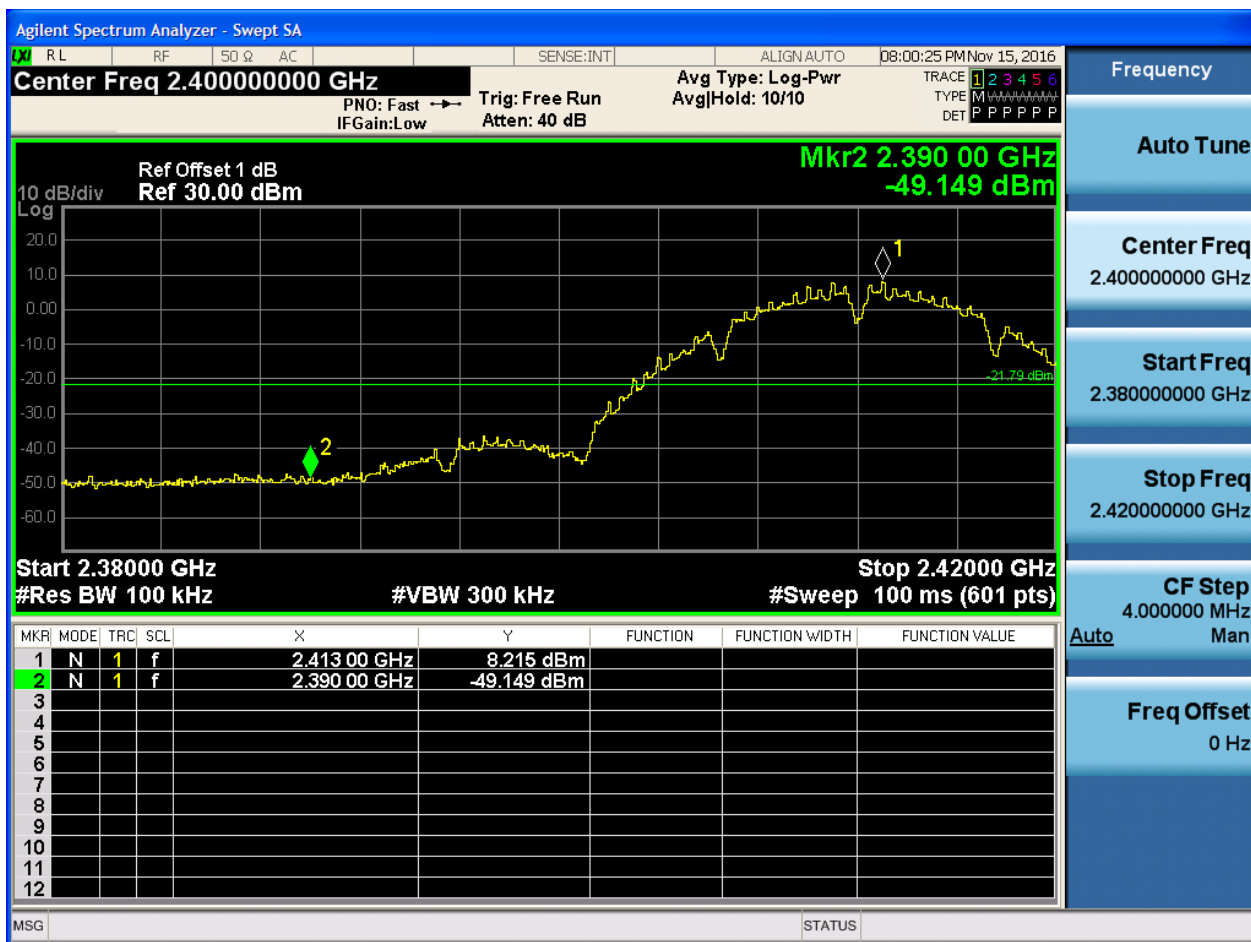
Part II - Test Plots

2.1 11B_L@Ant 1





2.2 11B_L@Ant 2





2.3 11B_H@Ant 1



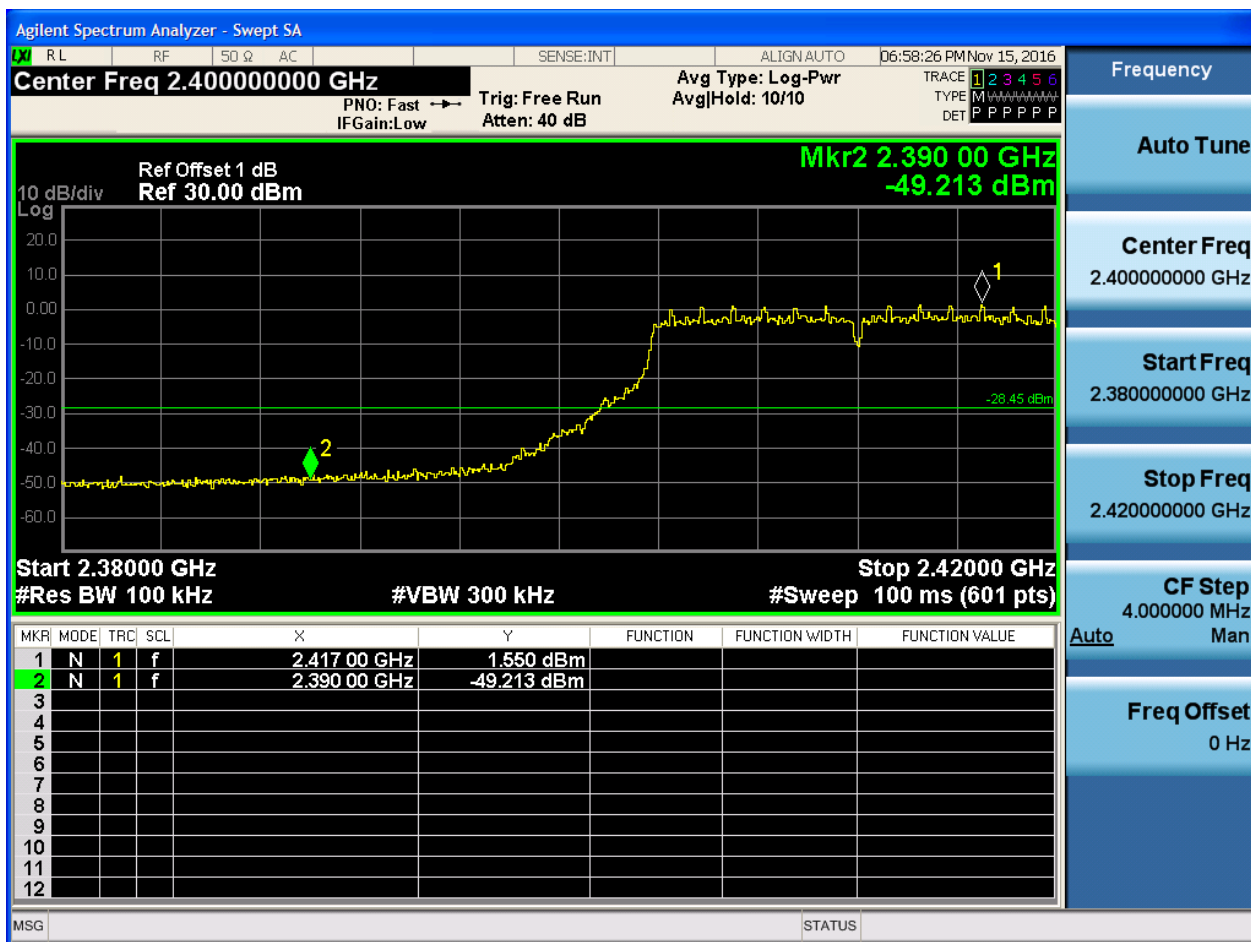


2.4 11B_H@Ant 2





2.5 11G_L@Ant 1



2.6 11G_L@Ant 2





Agilent Spectrum Analyzer - Swept SA

R.L. RF 50 Ω AC SENSE:INT ALIGN: AUTO 07:09:28 PM Nov 15, 2016

Center Freq 2.473500000 GHz Avg Type: Log-Pwr
 PNO: Fast $\rightarrow$ Trig: Free Run Avg|Hold: 100/100
 IFGain:Low Atten: 40 dB

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
-49.130 dBm

10 dB/div
 Log

Start 2.45350 GHz Stop 2.49350 GHz
 #Res BW 100 kHz #VBW 300 kHz #Sweep 100 ms (601 pts)

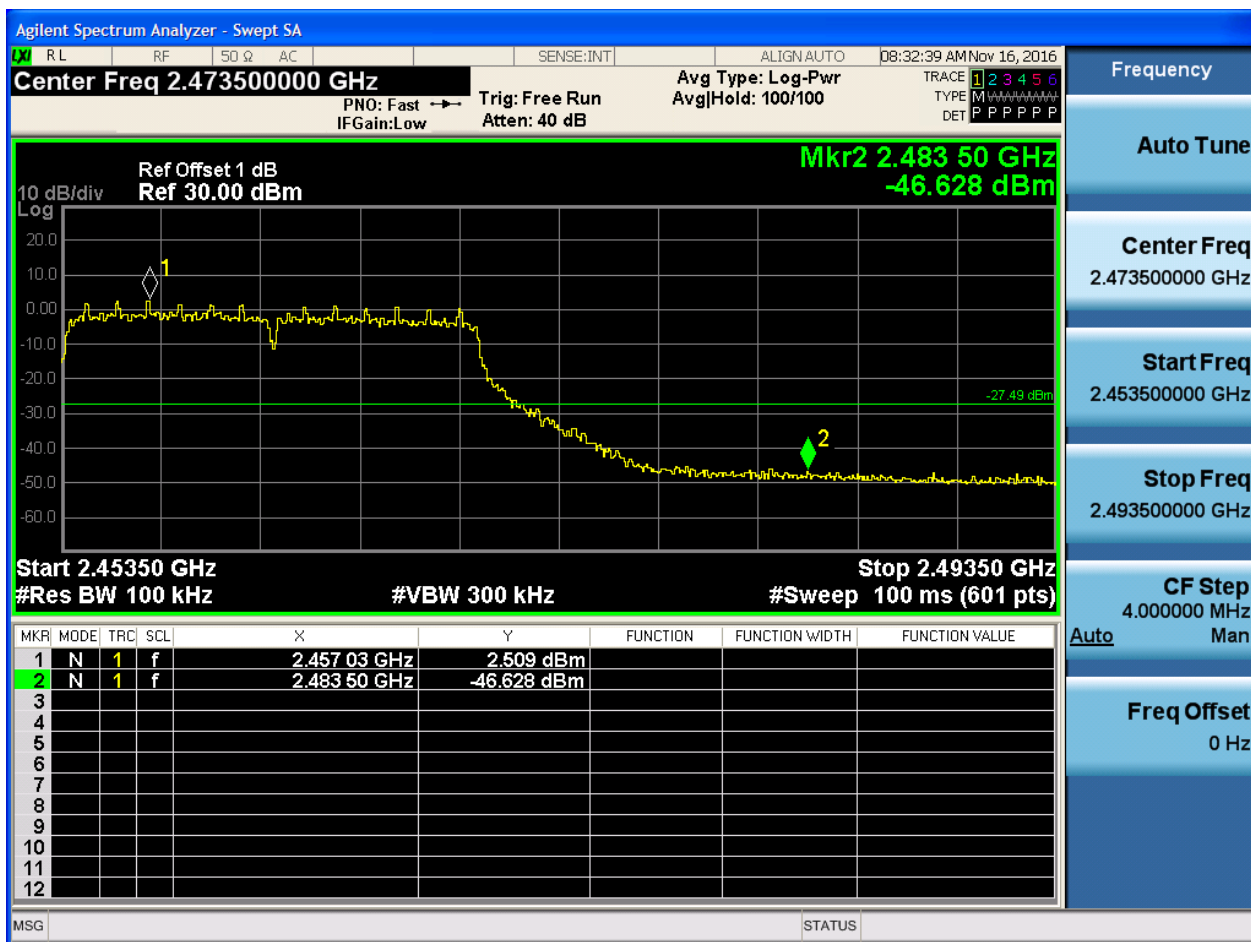
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.457 03 GHz	1.695 dBm			
2	N	1	f	2.483 50 GHz	-49.130 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

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
 Man
 Freq Offset
 0 Hz

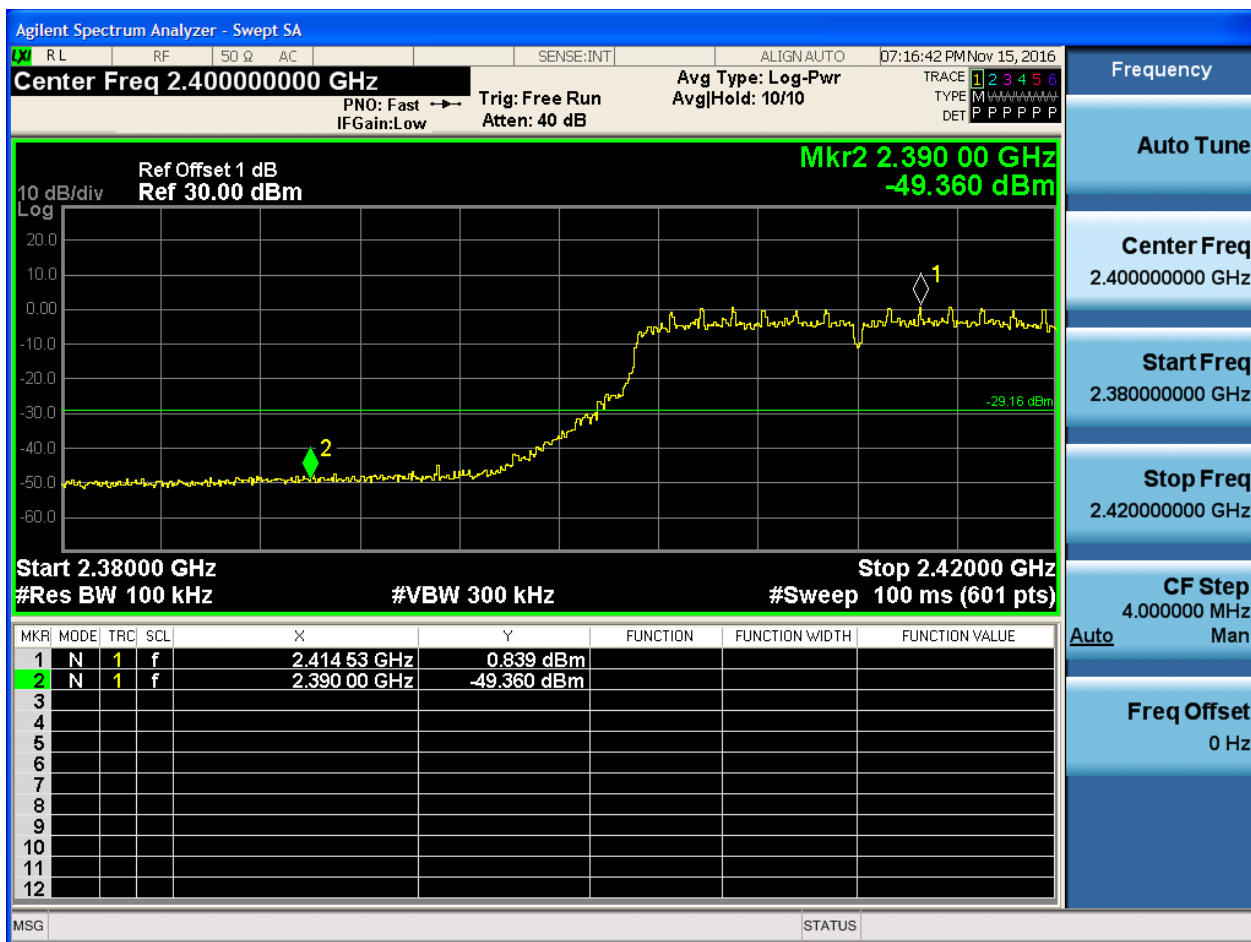


2.8 11G_H@Ant 2



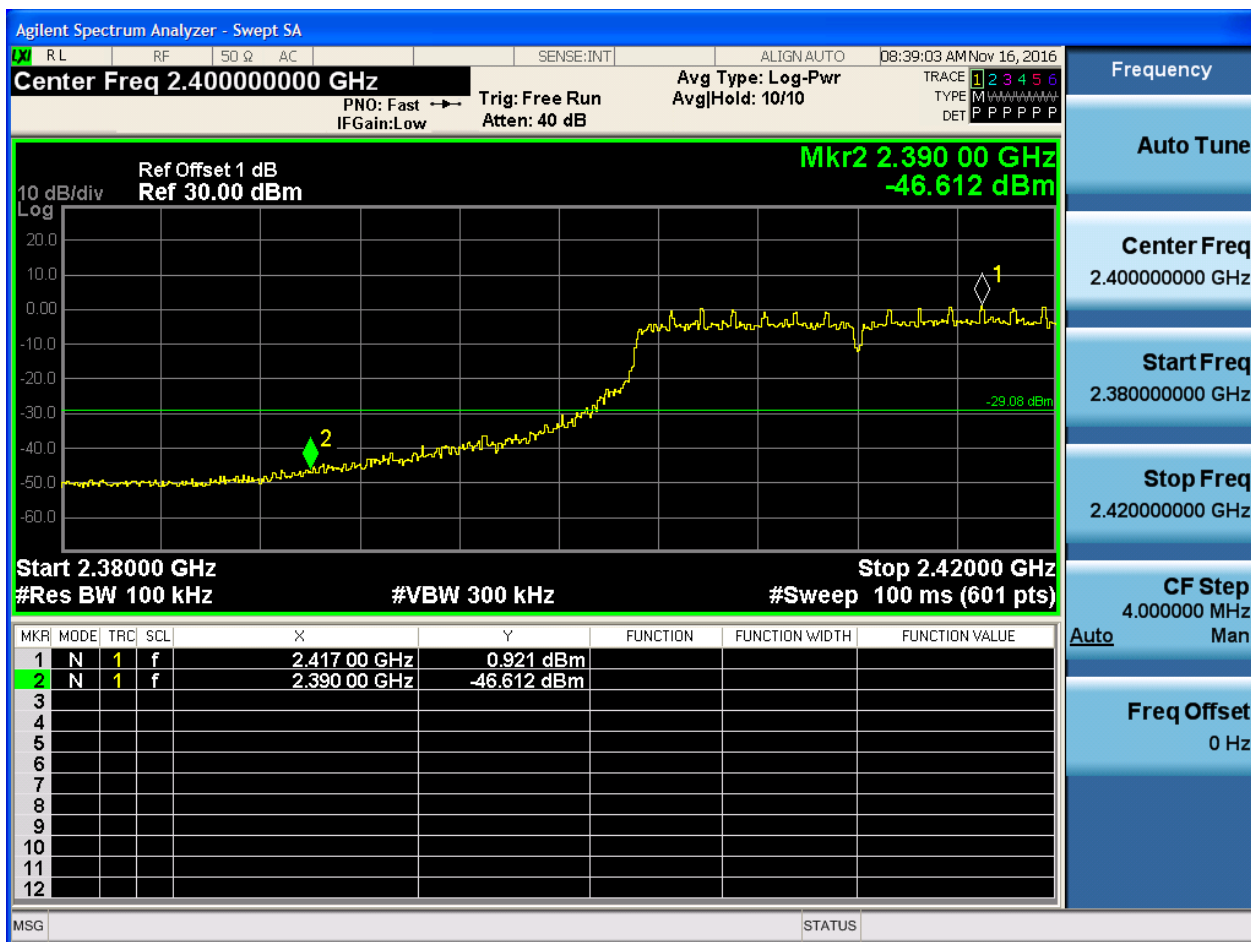


2.9 11N20_L@Ant 1



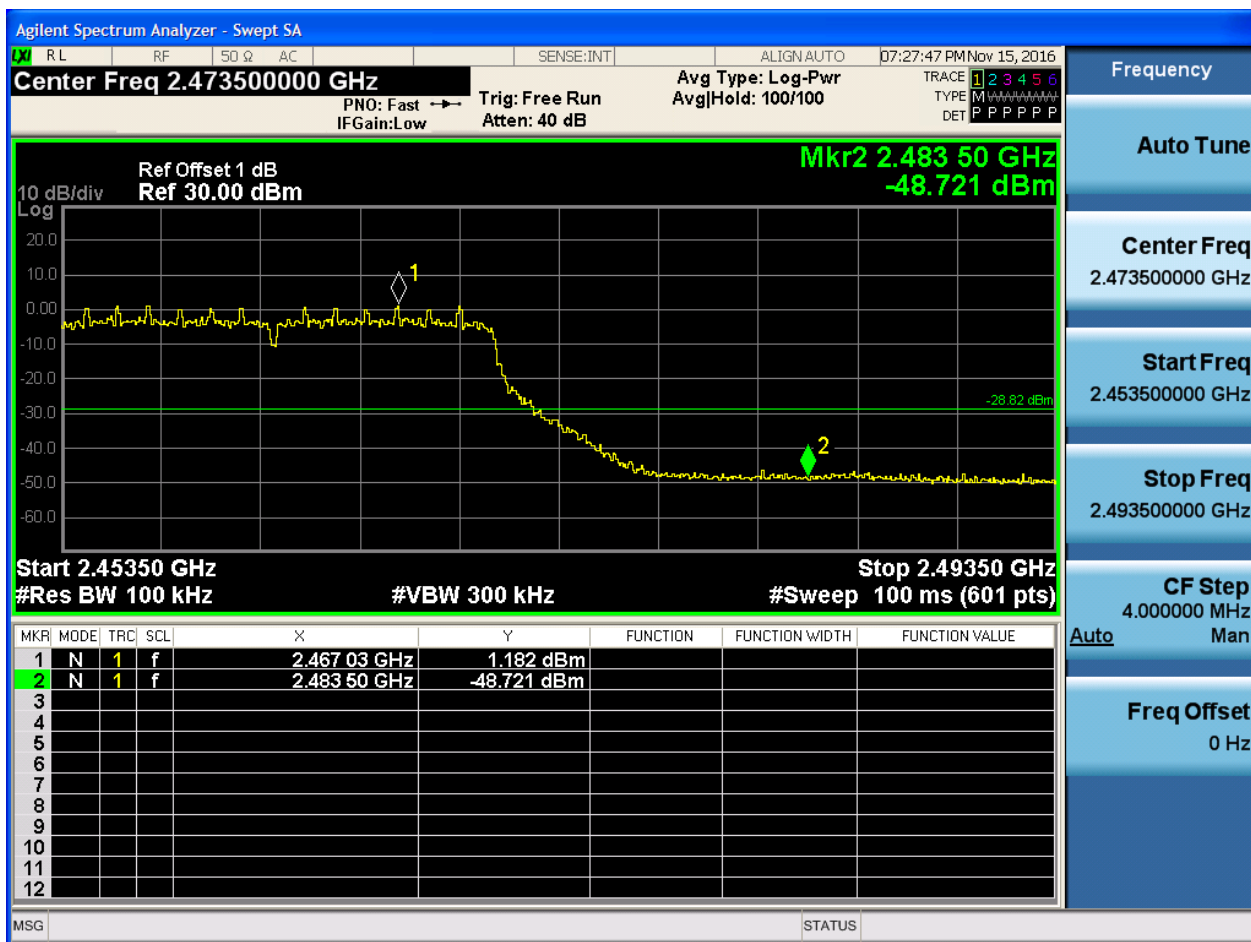


2.10 11N20_L@Ant 2





2.11 11N20_H@Ant 1





Agilent Spectrum Analyzer - Swept SA

Center Freq **2.473500000 GHz** Avg Type: Log-Pwr
PNO: Fast Trig: Free Run IFGain: Low Atten: 40 dB
Align: AUTO 08:54:34 AM Nov 16, 2016
TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W W
DET P P P P P P

Ref Offset 1 dB
Ref 30.0 dBm

Mkr2 2.483 50 GHz
-47.535 dBm

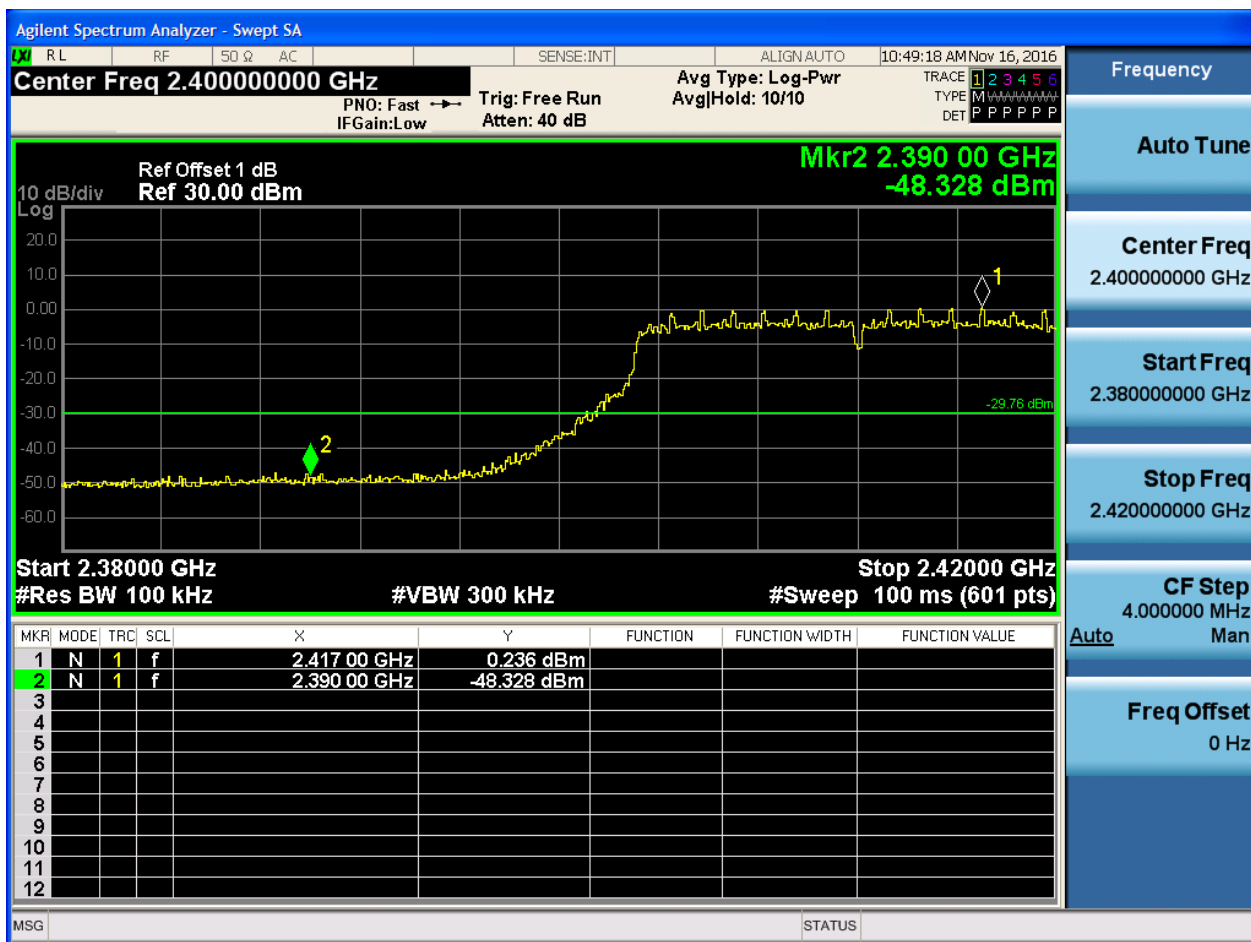
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.457 03 GHz	1.606 dBm			
2	N	1	f	2.483 50 GHz	-47.535 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Start 2.45350 GHz Stop 2.49350 GHz
#Res BW 100 kHz #VBW 300 kHz #Sweep 100 ms (601 pts)

MSG STATUS

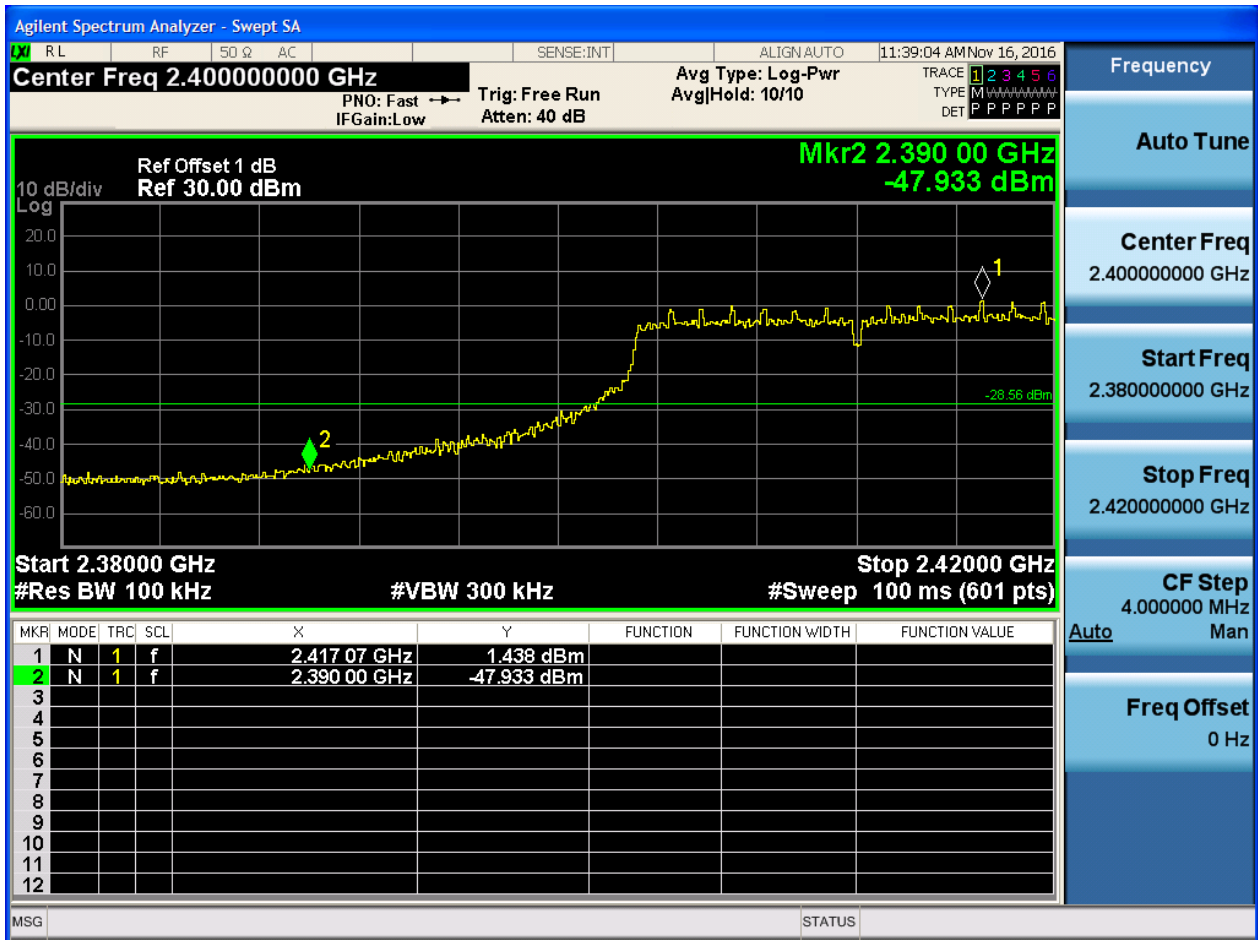


2.13 11N20m_L@Ant 1



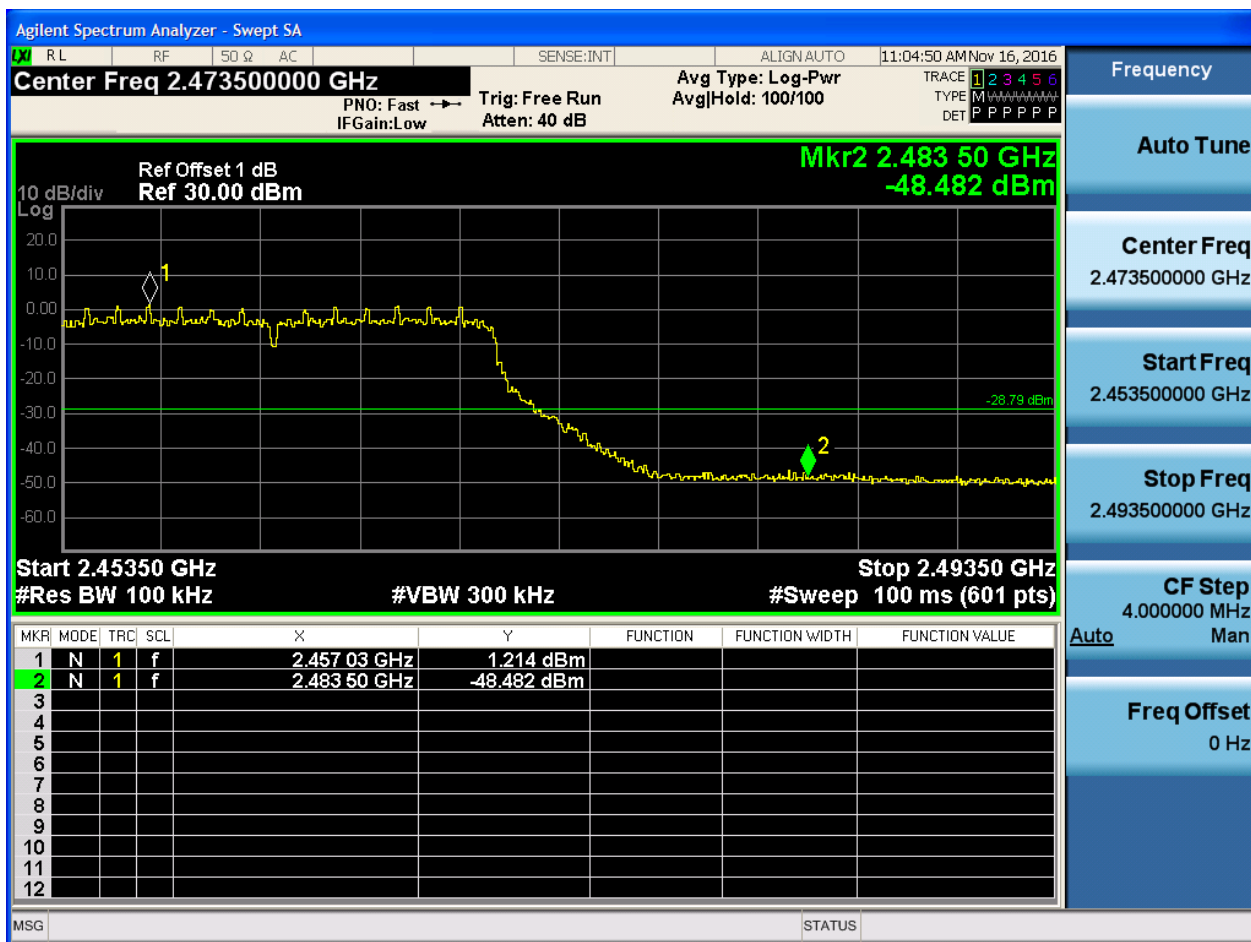


2.14 11N20m_L@Ant 2



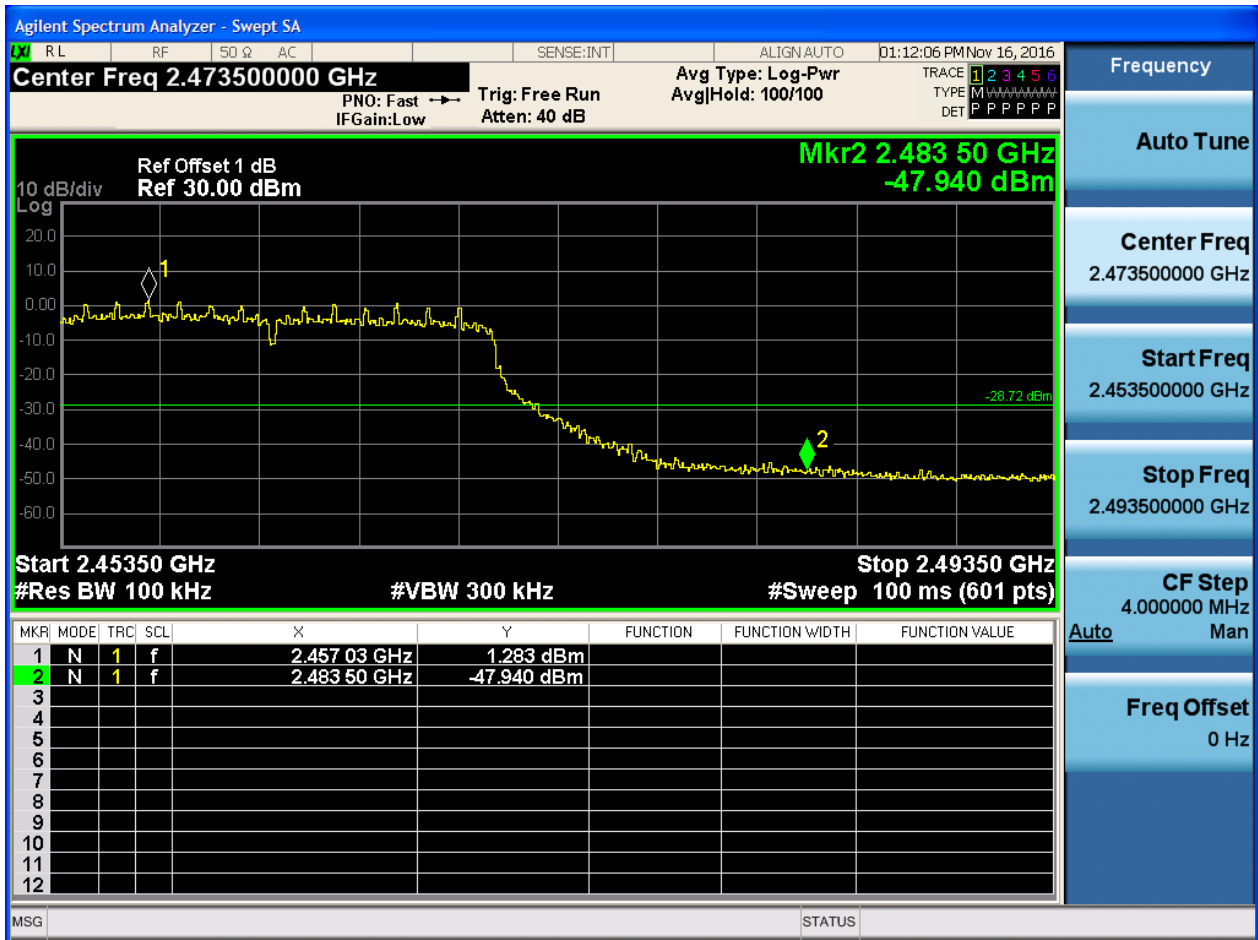


2.15 11N20m_H@Ant 1



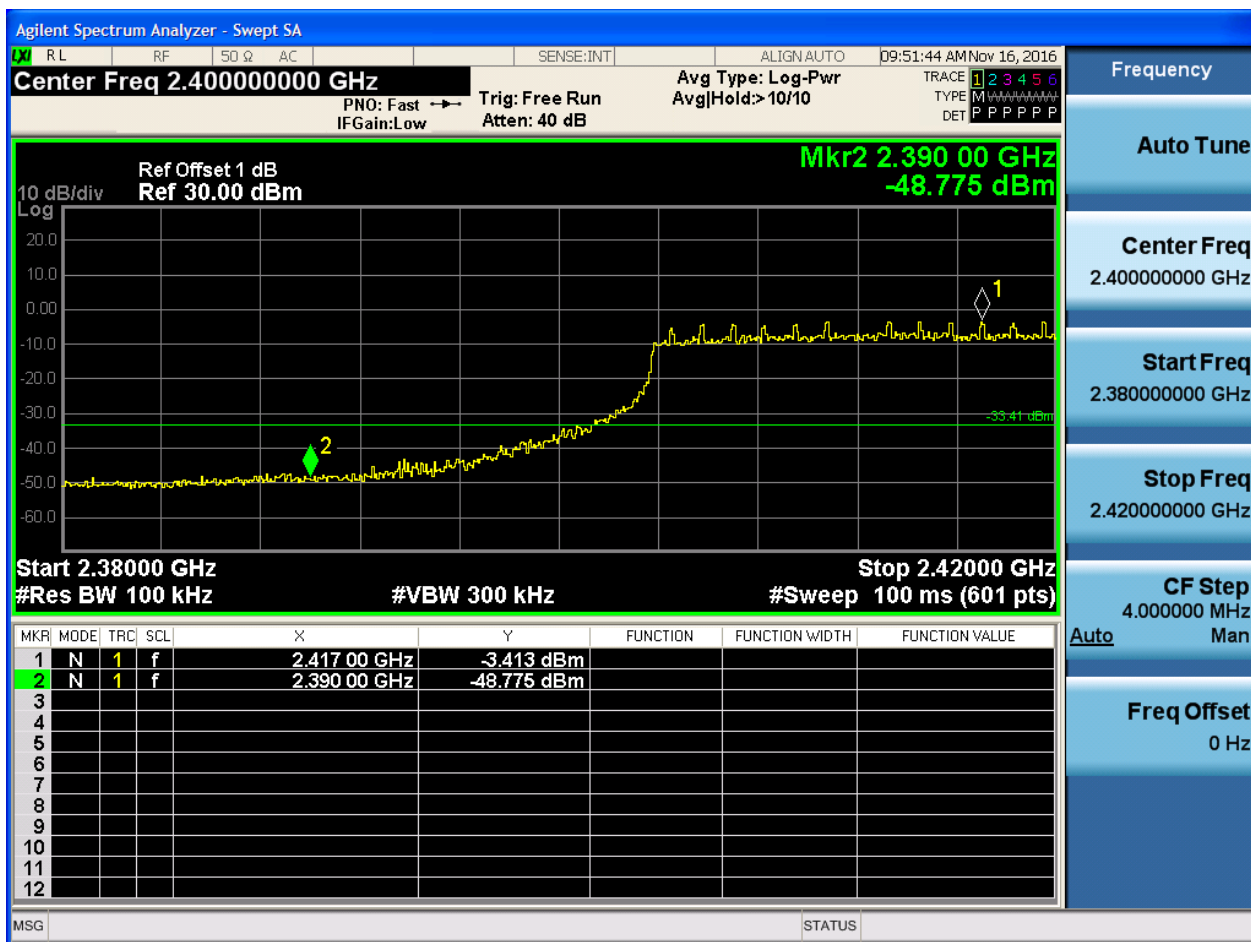


2.16 11N20m_H@Ant 2



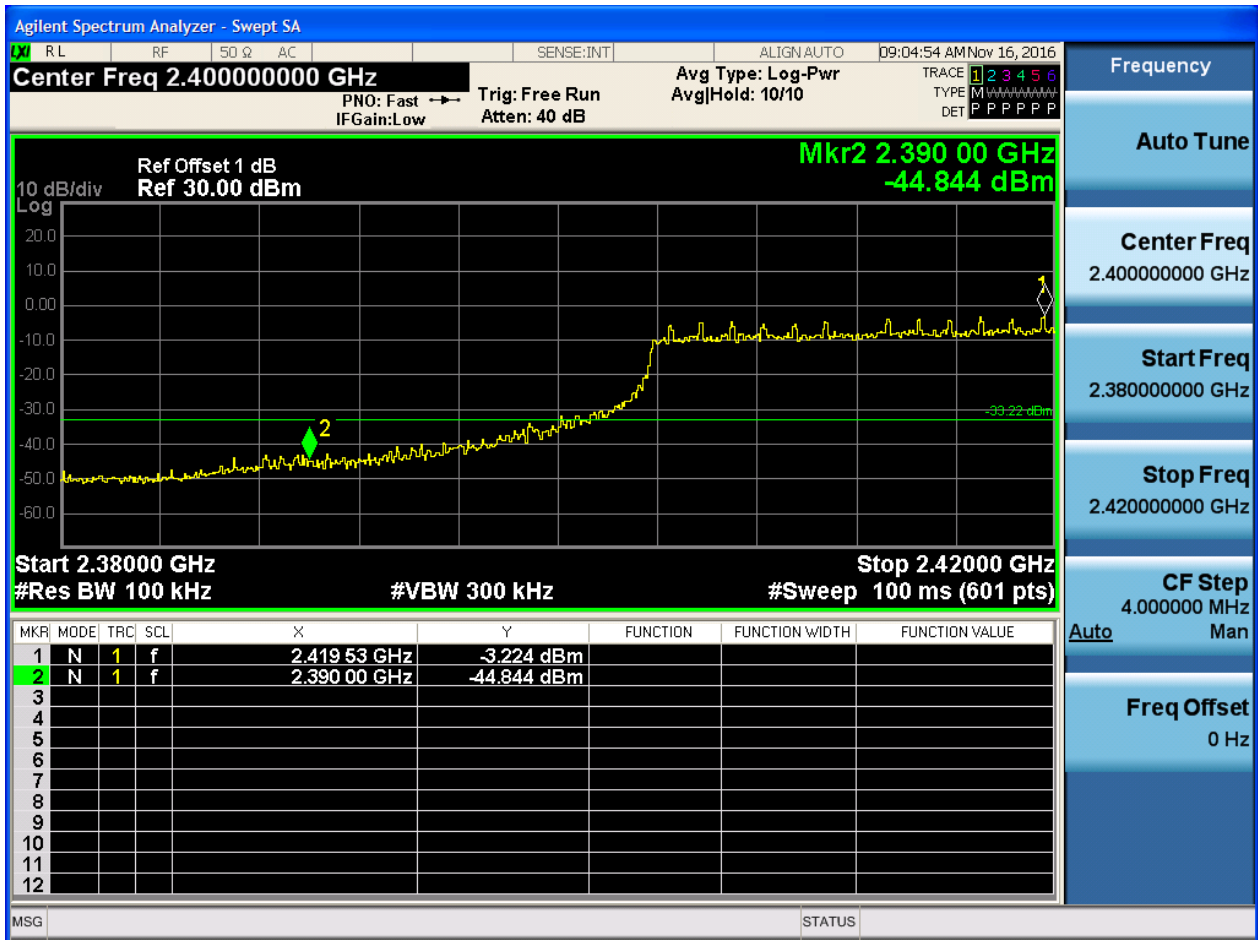


2.17 11N40_L@Ant 1



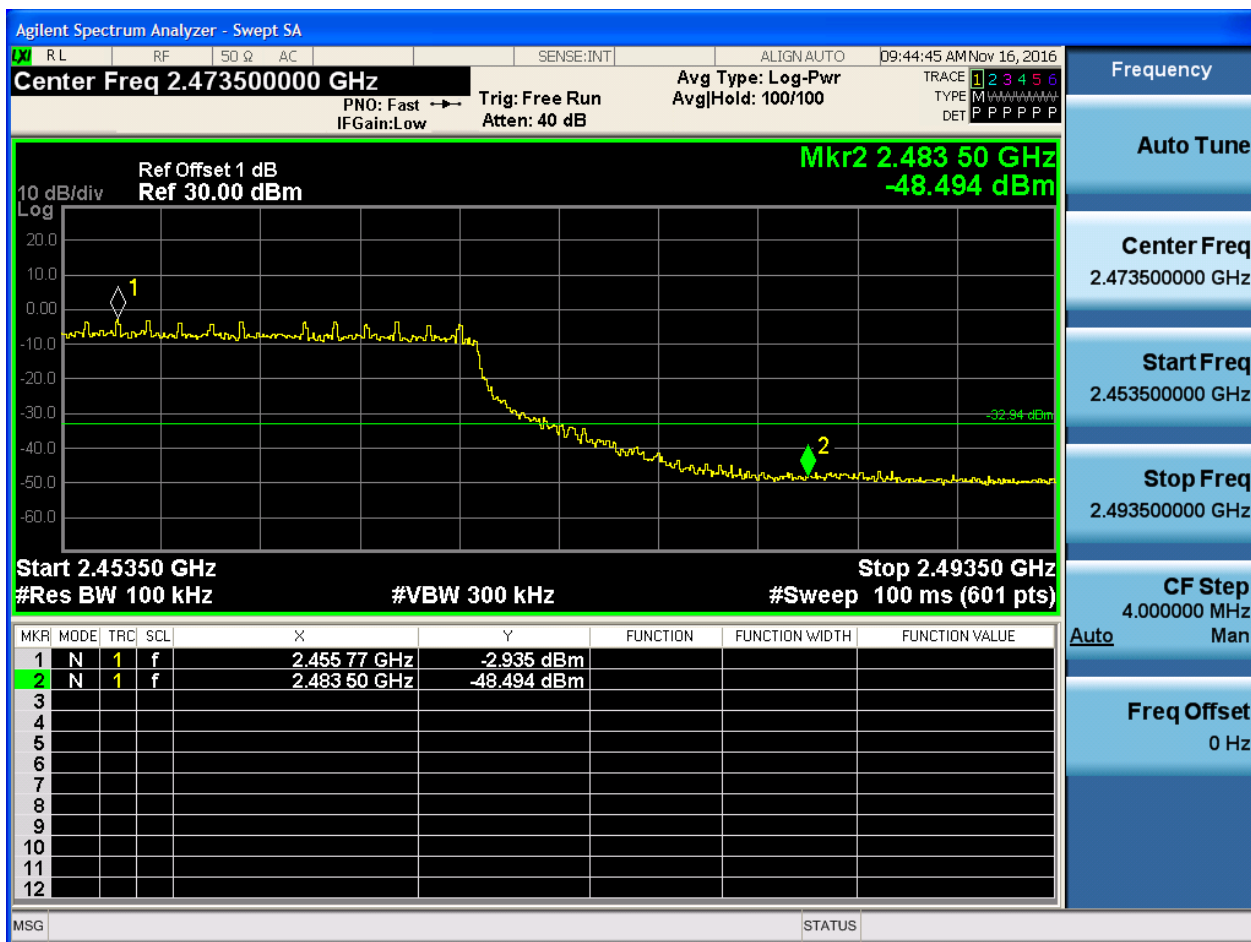


2.18 11N40_L@Ant 2



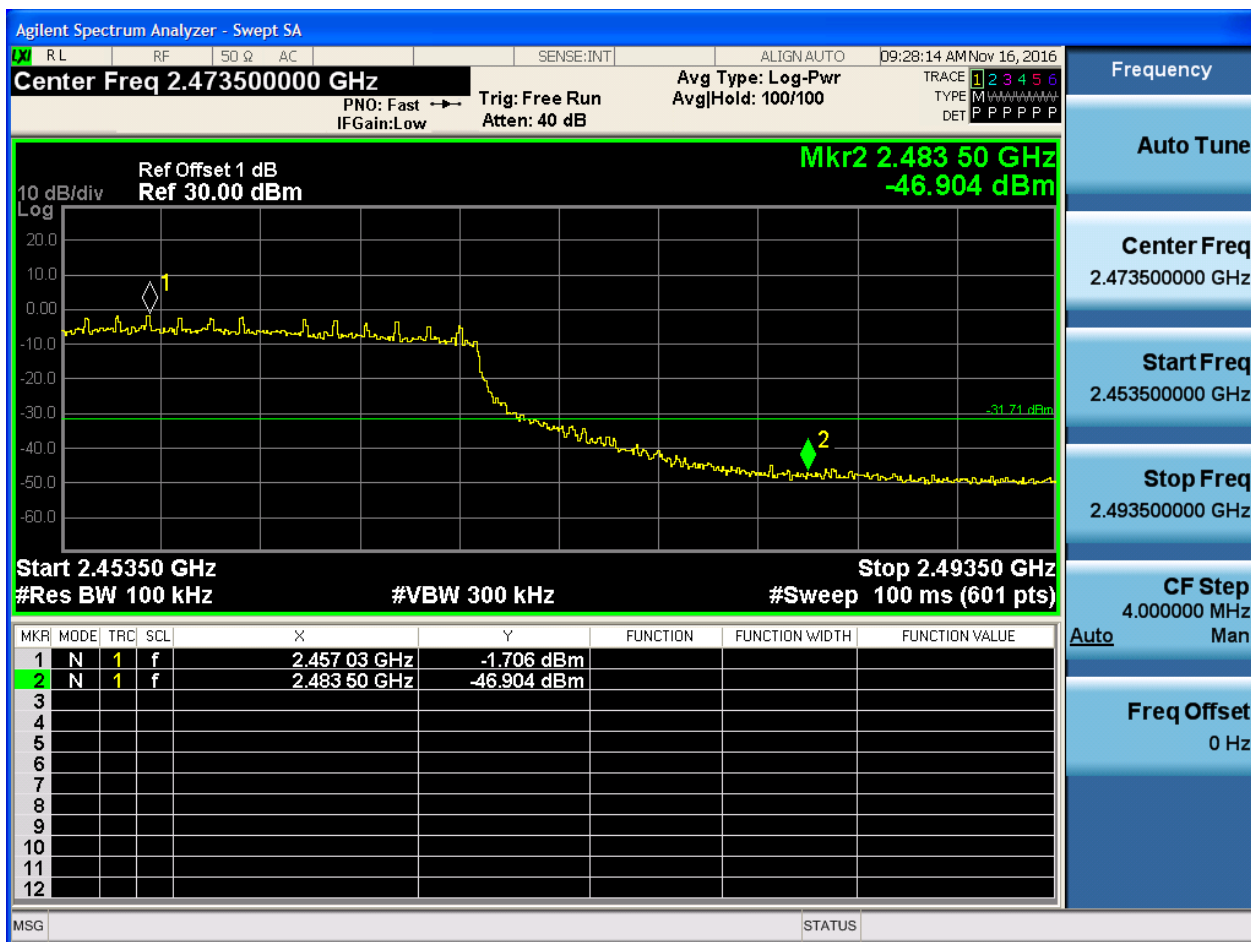


2.19 11N40_H@Ant 1



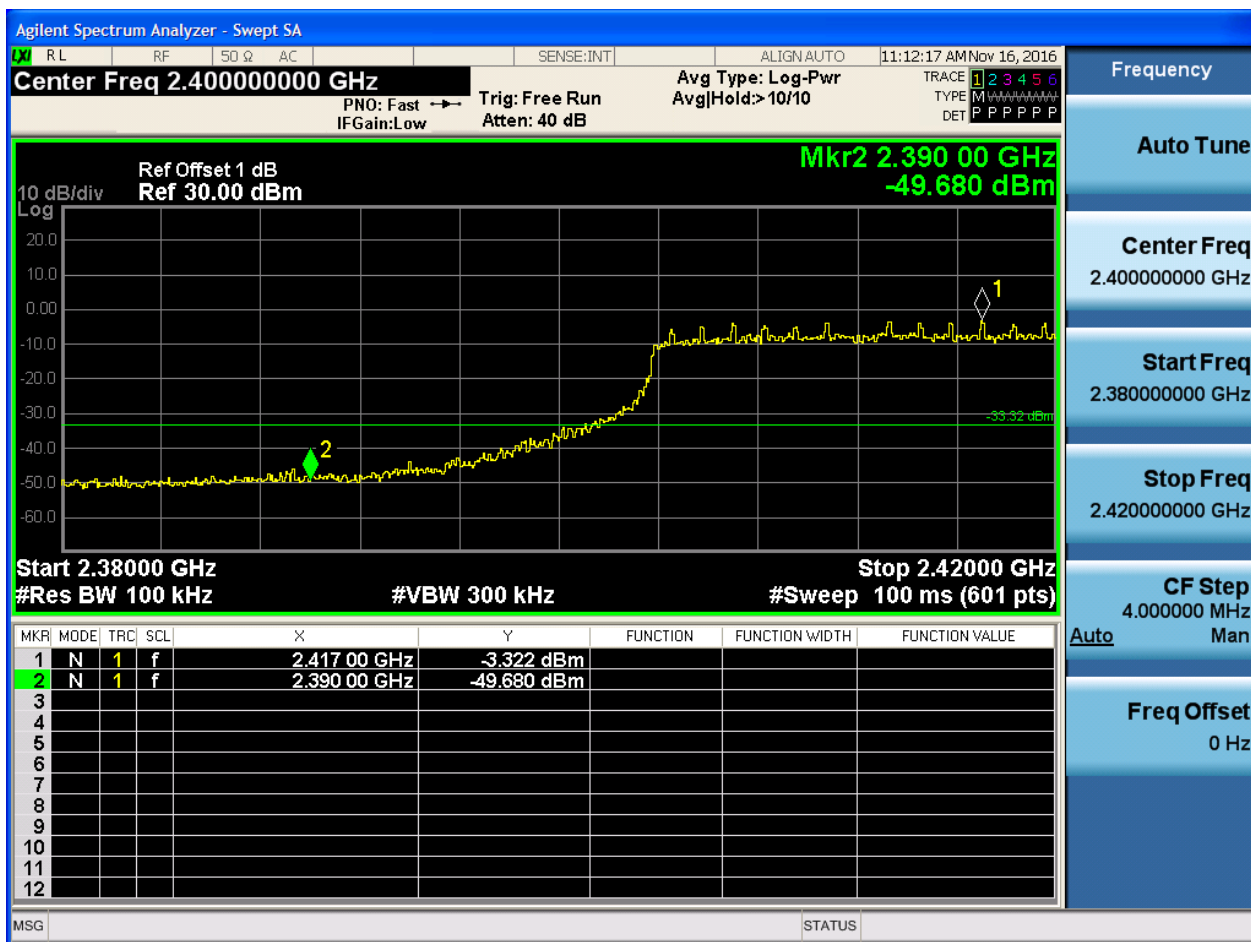


2.20 11N40_H@Ant 2



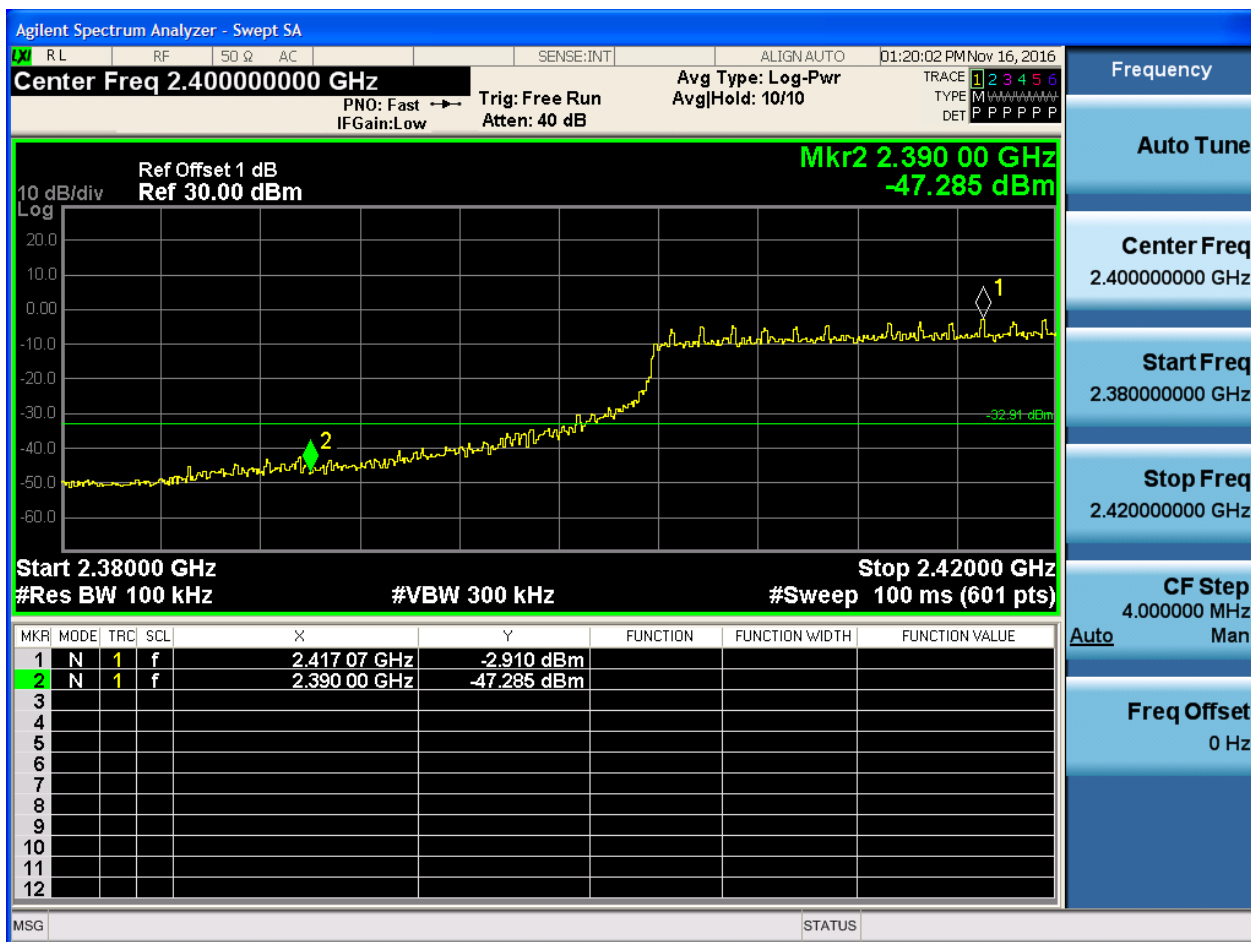


2.21 11N40m_L@Ant 1



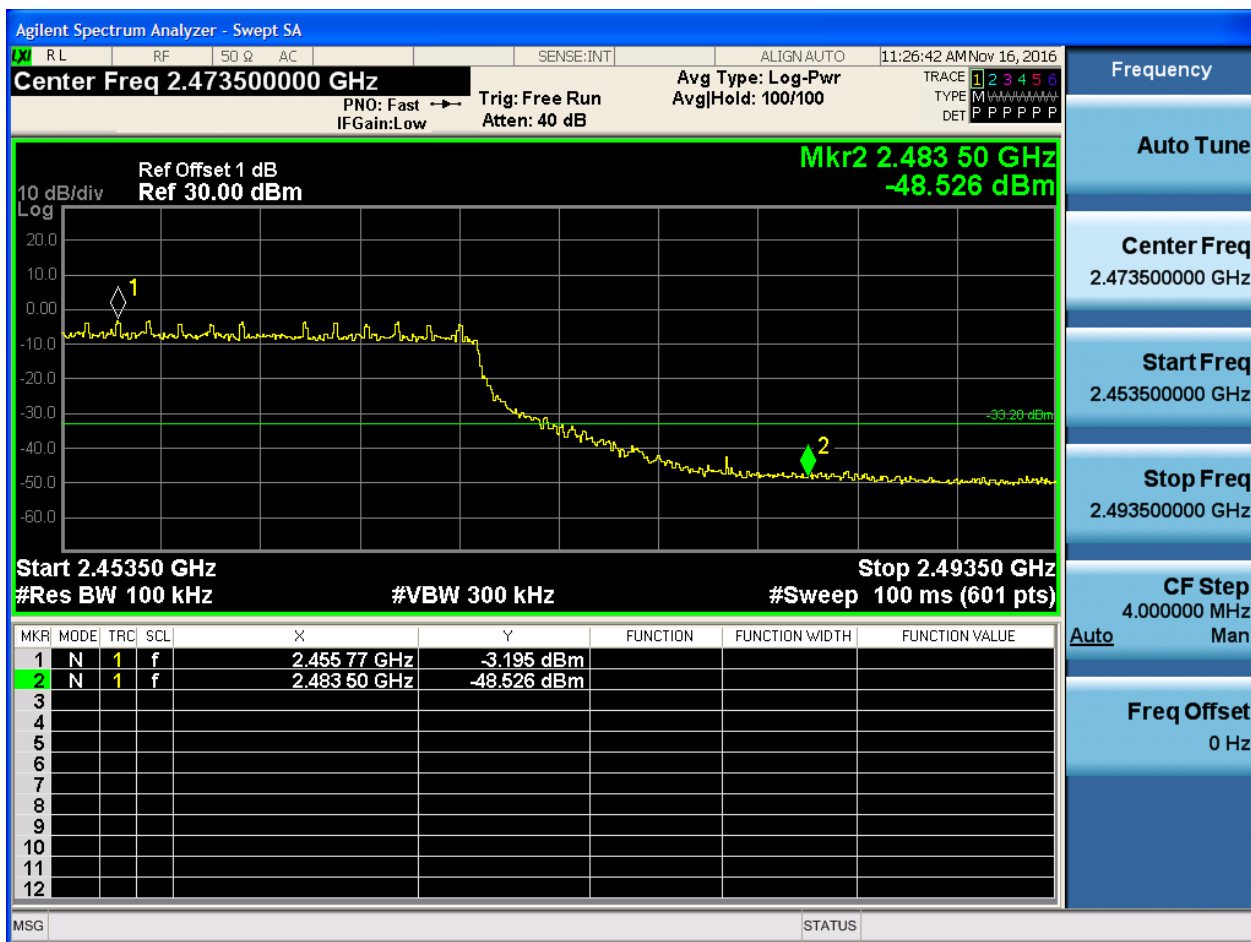


2.22 11N40m_L@Ant 2



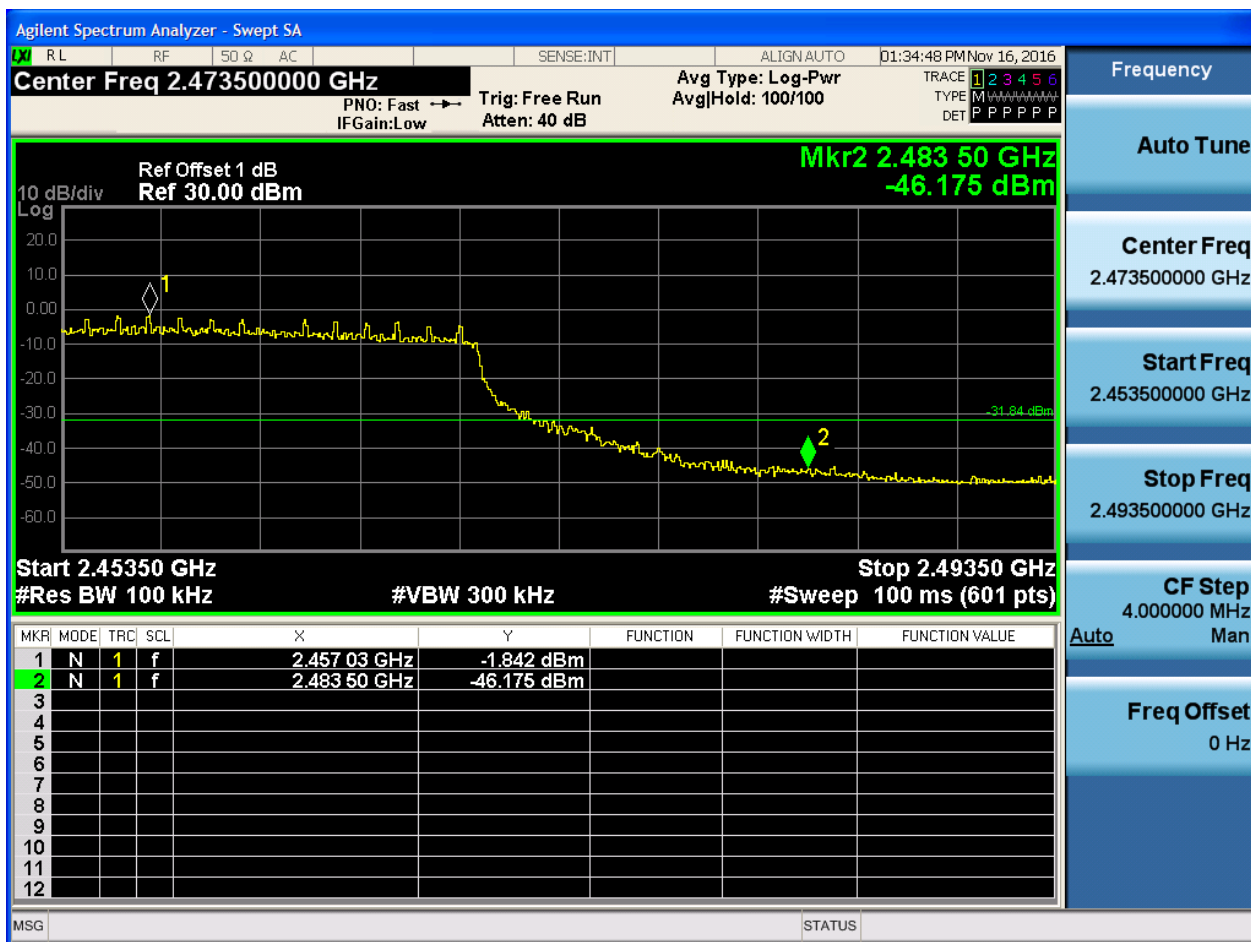


2.23 11N40m_H@Ant 1





2.24 11N40m_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	8.07	<limit	pass
11B	L	2412	Ant 2	8.20	<limit	pass
11B	M	2432	Ant 1	7.84	<limit	pass
11B	M	2432	Ant 2	8.21	<limit	pass
11B	H	2452	Ant 1	7.96	<limit	pass
11B	H	2452	Ant 2	8.41	<limit	pass
11G	L	2412	Ant 1	1.79	<limit	pass
11G	L	2412	Ant 2	2.08	<limit	pass
11G	M	2432	Ant 1	2.24	<limit	pass
11G	M	2432	Ant 2	2.08	<limit	pass
11G	H	2452	Ant 1	1.98	<limit	pass
11G	H	2452	Ant 2	2.42	<limit	pass
11N20	L	2412	Ant 1	1.15	<limit	pass
11N20	L	2412	Ant 2	1.33	<limit	pass
11N20	M	2432	Ant 1	1.33	<limit	pass
11N20	M	2432	Ant 2	1.16	<limit	pass
11N20	H	2452	Ant 1	1.04	<limit	pass



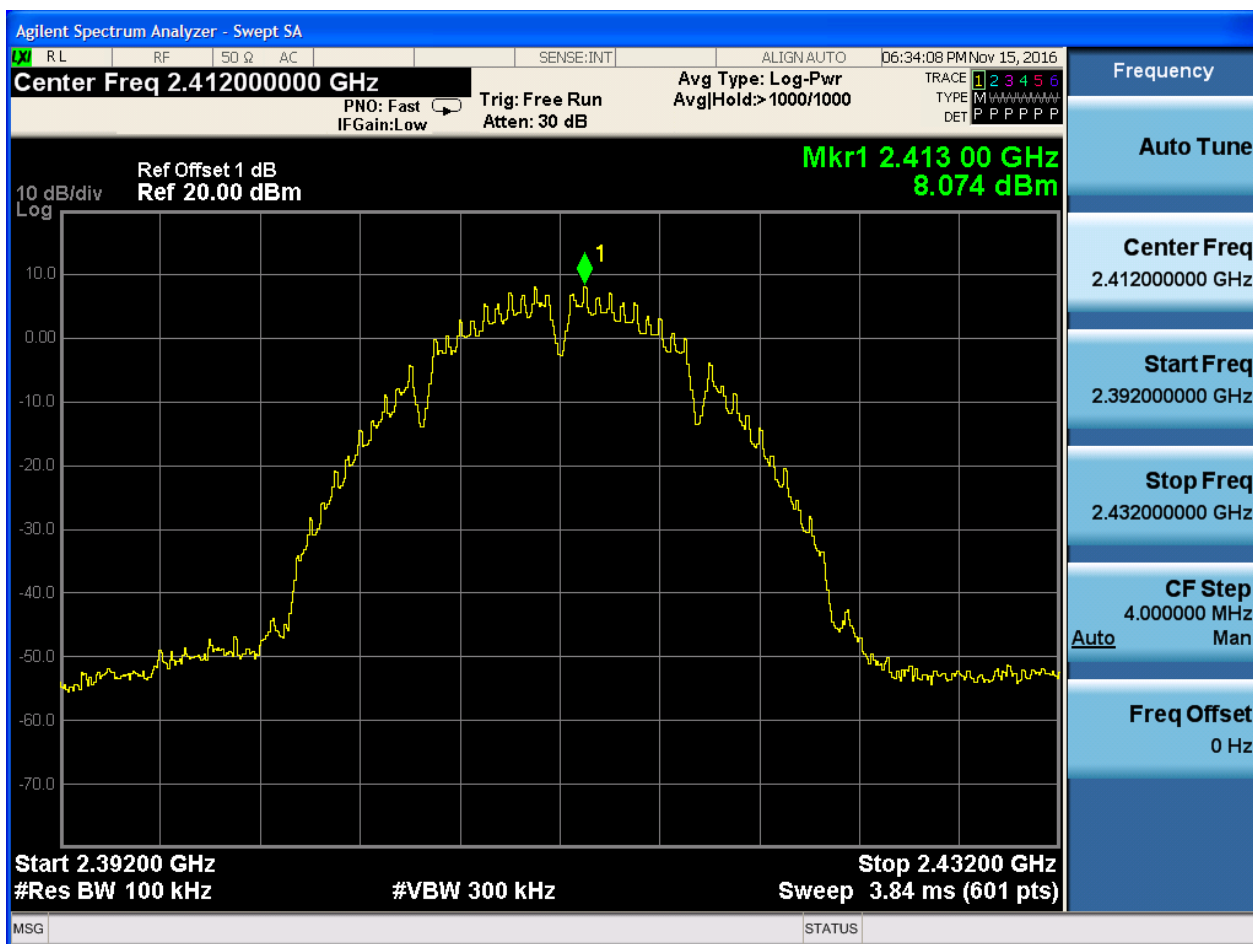
Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11N20	H	2452	Ant 2	1.14	<limit	pass
11N20m	L	2412	Ant 1	0.77	<limit	pass
11N20m	L	2412	Ant 2	1.52	<limit	pass
11N20m	M	2432	Ant 1	1.17	<limit	pass
11N20m	M	2432	Ant 2	1.20	<limit	pass
11N20m	H	2452	Ant 1	1.64	<limit	pass
11N20m	H	2452	Ant 2	1.34	<limit	pass
11N40	L	2422	Ant 1	-2.42	<limit	pass
11N40	L	2422	Ant 2	-1.61	<limit	pass
11N40	M	2432	Ant 1	-0.94	<limit	pass
11N40	M	2432	Ant 2	-1.87	<limit	pass
11N40	H	2442	Ant 1	-1.10	<limit	pass
11N40	H	2442	Ant 2	-1.38	<limit	pass
11N40m	L	2422	Ant 1	-2.29	<limit	pass
11N40m	L	2422	Ant 2	-1.49	<limit	pass
11N40m	M	2432	Ant 1	-1.27	<limit	pass
11N40m	M	2432	Ant 2	-1.78	<limit	pass
11N40m	H	2442	Ant 1	-0.95	<limit	pass
11N40m	H	2442	Ant 2	-1.72	<limit	pass



Part II - Test Plots

2.1 11B_L@Ant 1

Pref:





Agilent Spectrum Analyzer - Swept SA

Center Freq 79.500 kHz

Ref Offset 1 dB
Ref 17.00 dBm

10 dB/div
Log

Mkr1 9.235 kHz
-54.343 dBm

Start 9.00 kHz
#Res BW 1.0 kHz

#VBW 3.0 kHz

Stop 150.00 kHz
Sweep 135 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

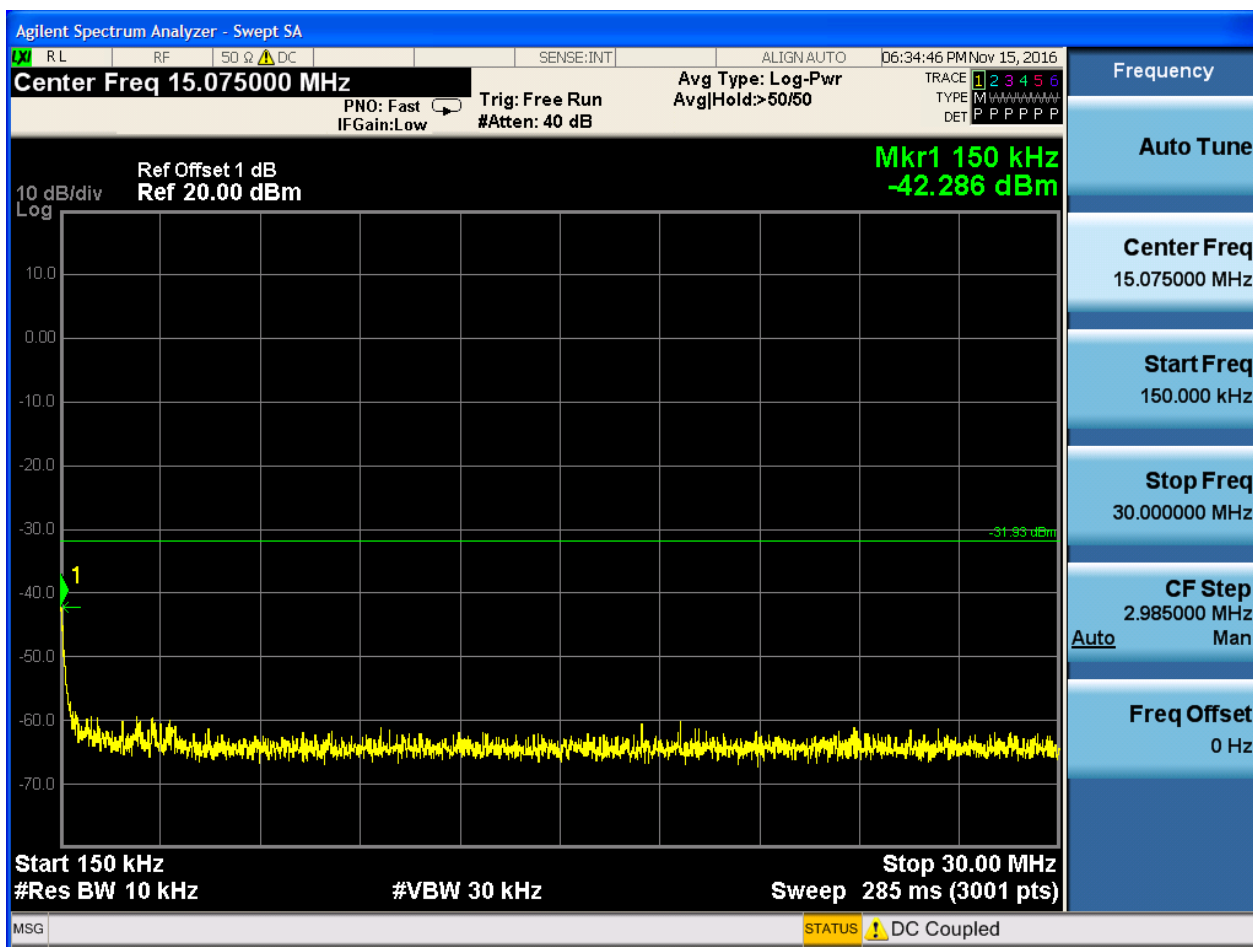
Auto

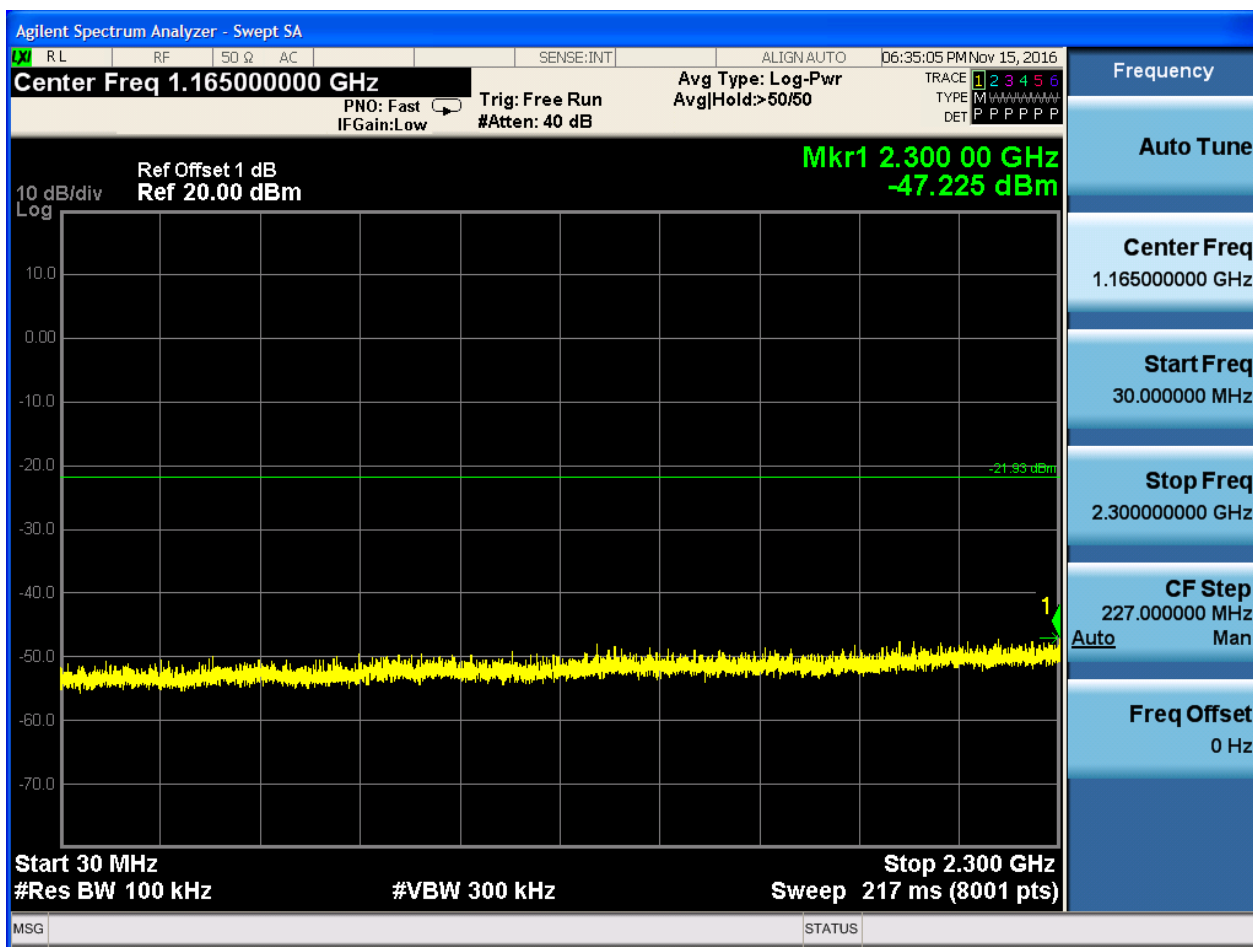
Freq Offset
0 Hz

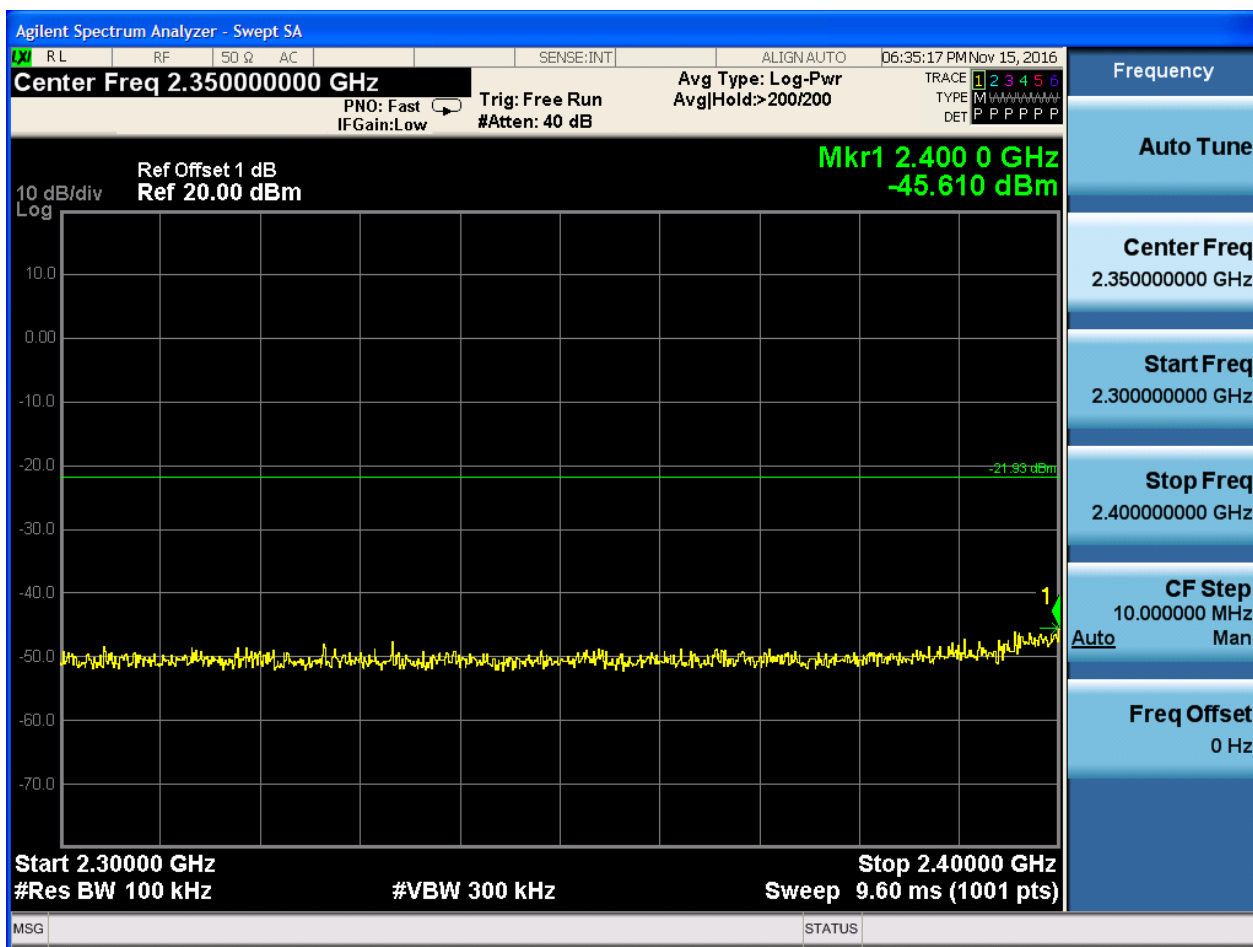
MSG

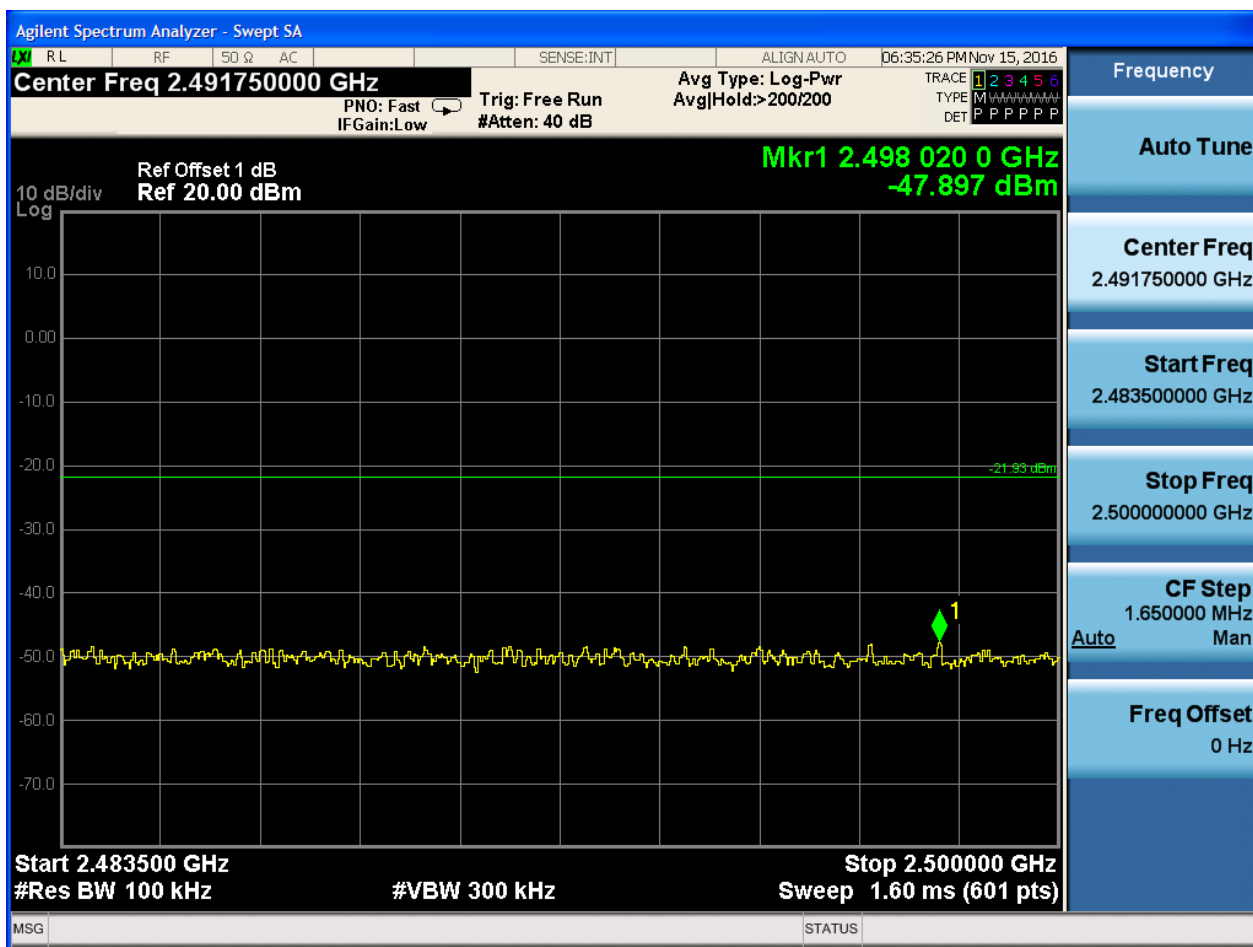
STATUS

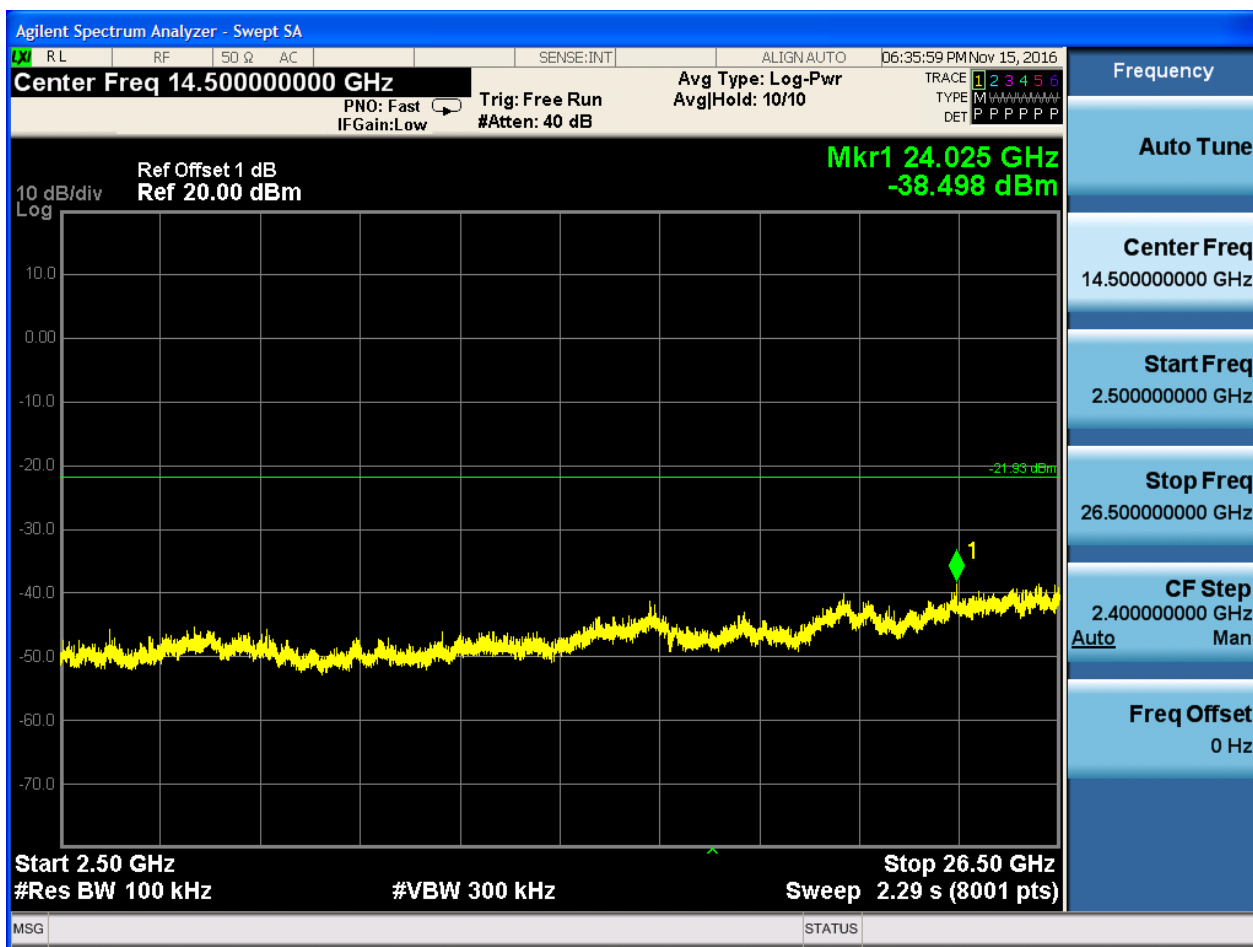
DC Coupled







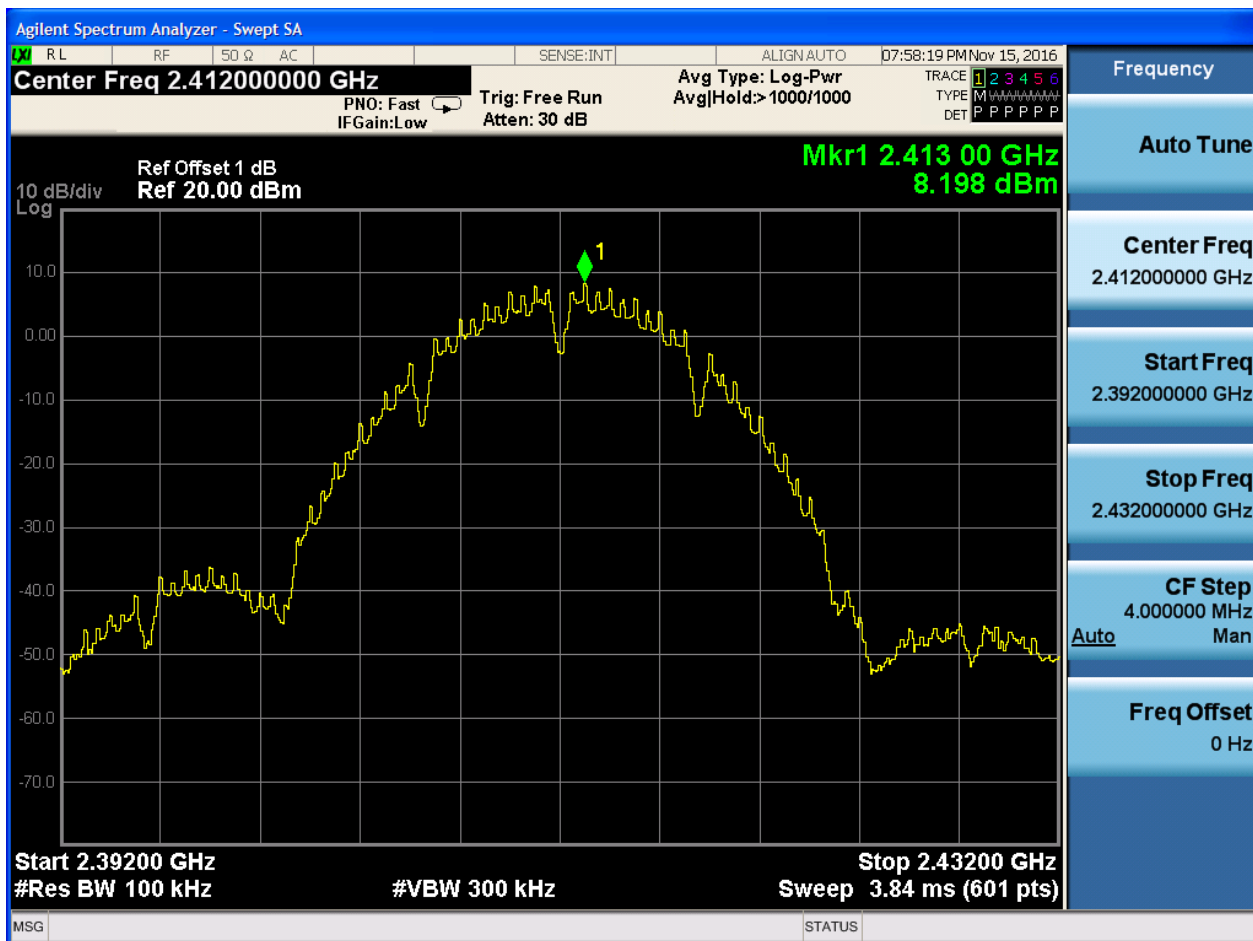






2.2 11B_L@Ant 2

Pref:





Agilent Spectrum Analyzer - Swept SA

Center Freq 79.500 kHz

PNO: Wide Trg: Free Run Avg Type: Log-Pwr
IFGain: Low #Atten: 26 dB

Ref Offset 1 dB
Ref 17.00 dBm

Mkr1 9.705 kHz
-53.601 dBm

10 dB/div
Log

Start 9.00 kHz
#Res BW 1.0 kHz

Stop 150.00 kHz
Sweep 135 ms (601 pts)

#VBW 3.0 kHz

MSG STATUS DC Coupled

Frequency

Auto Tune

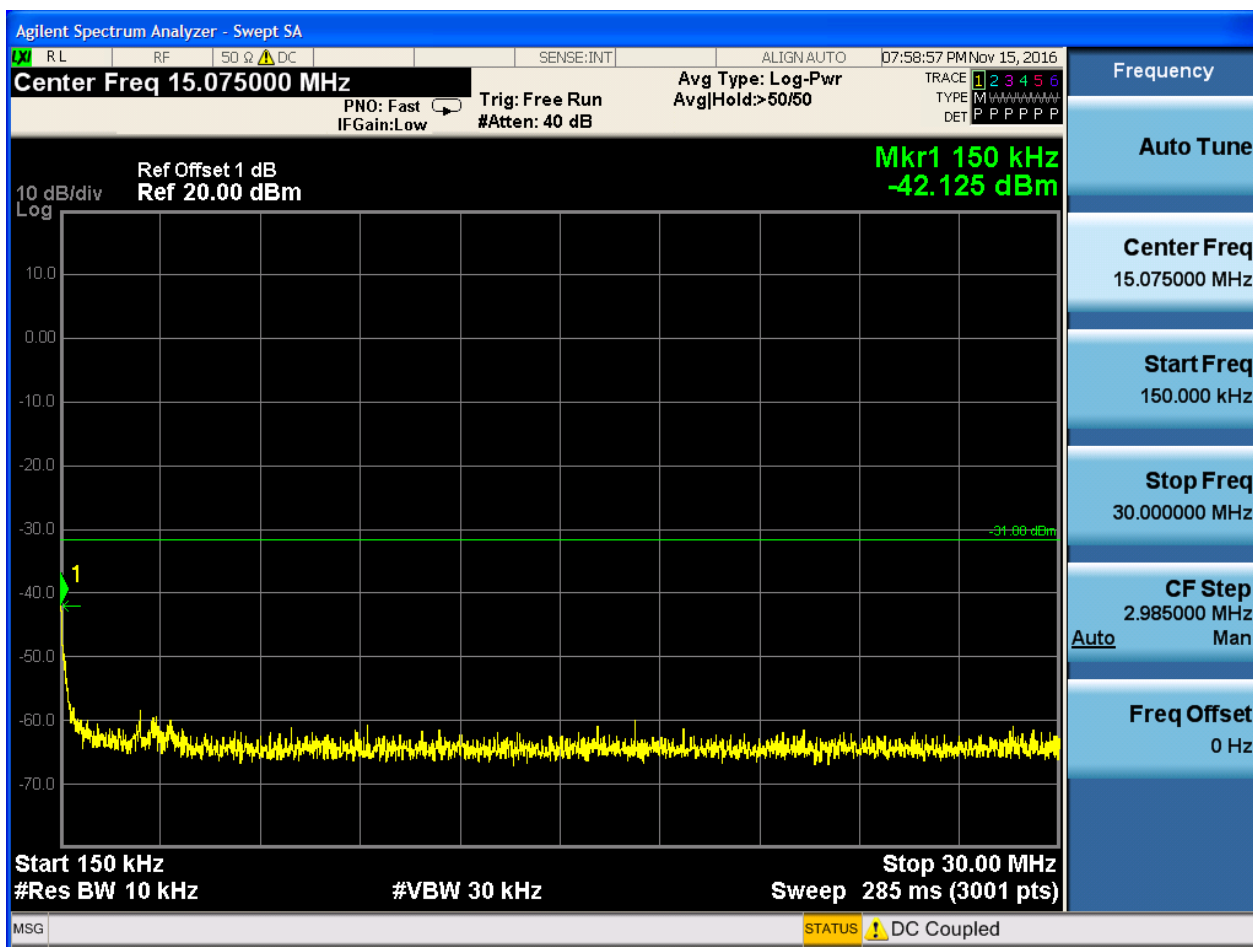
Center Freq
79.500 kHz

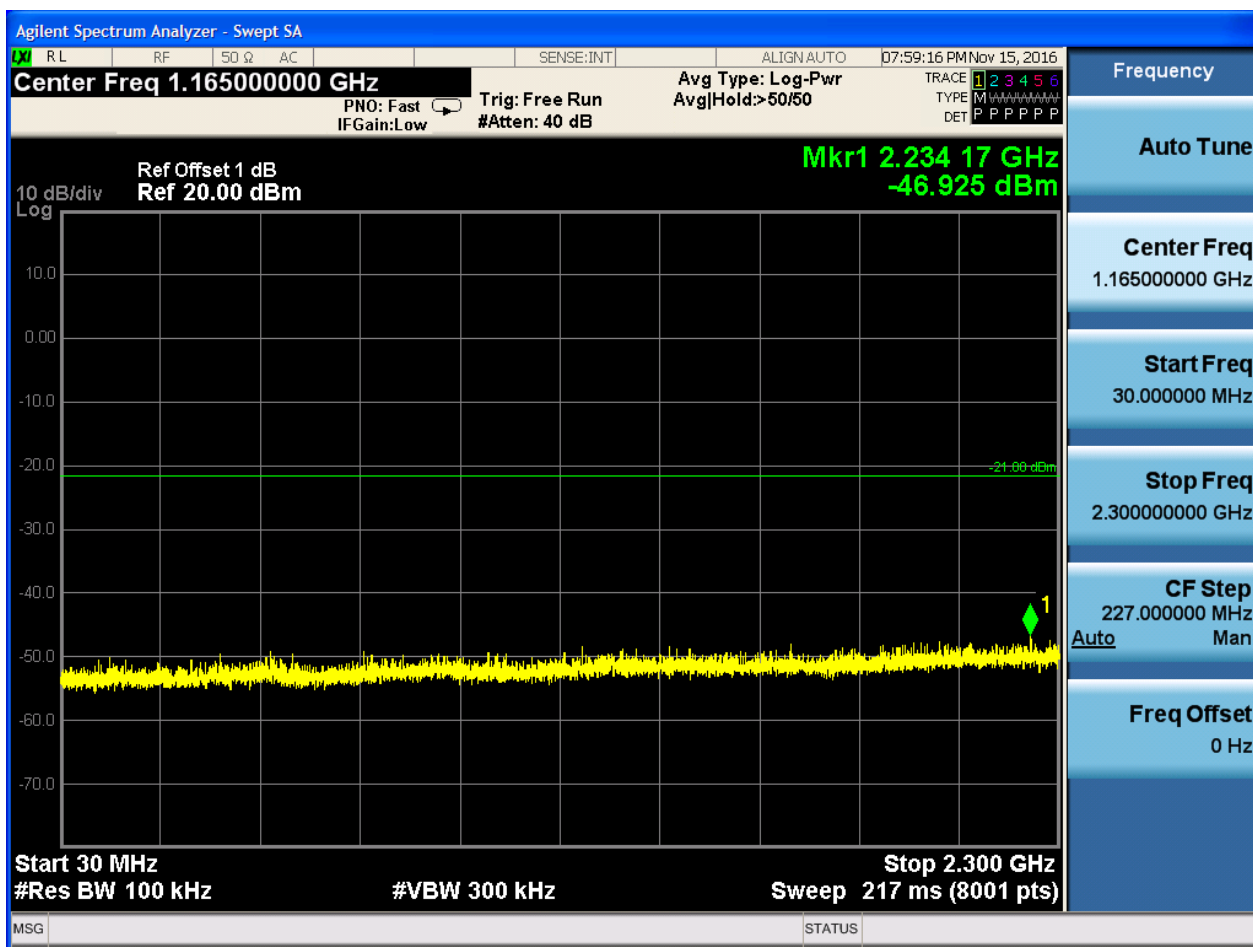
Start Freq
9.000 kHz

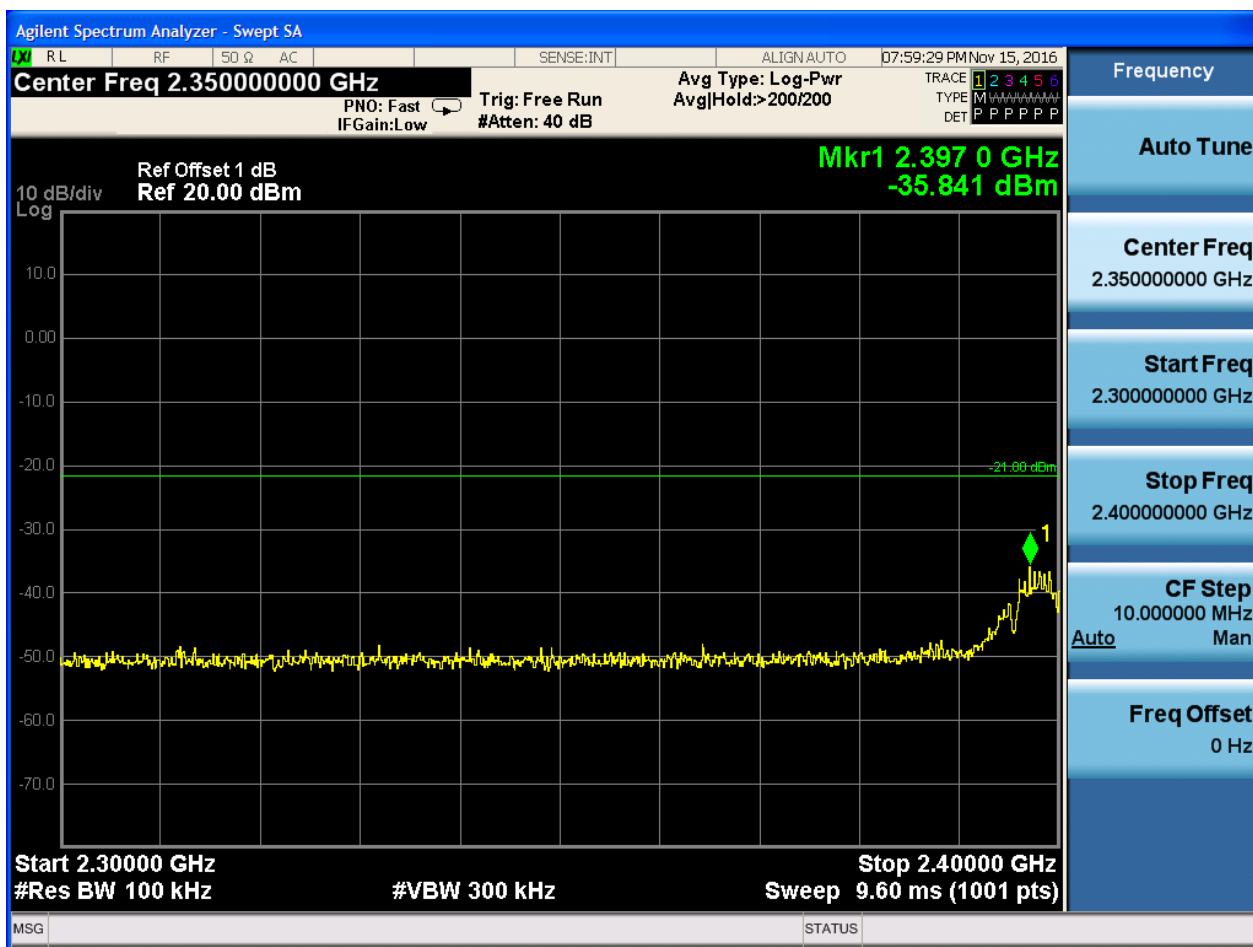
Stop Freq
150.000 kHz

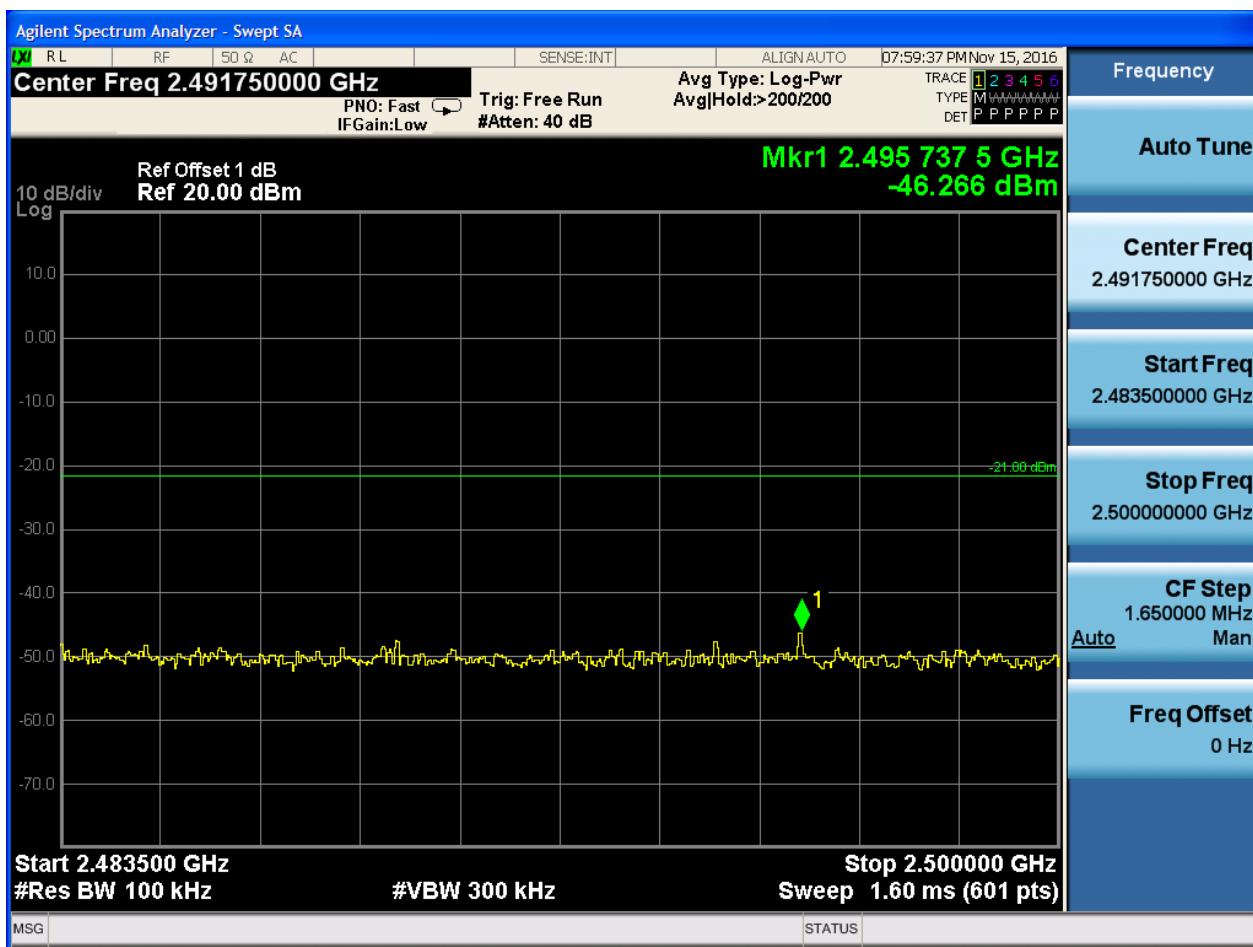
CF Step
14.100 kHz
Man

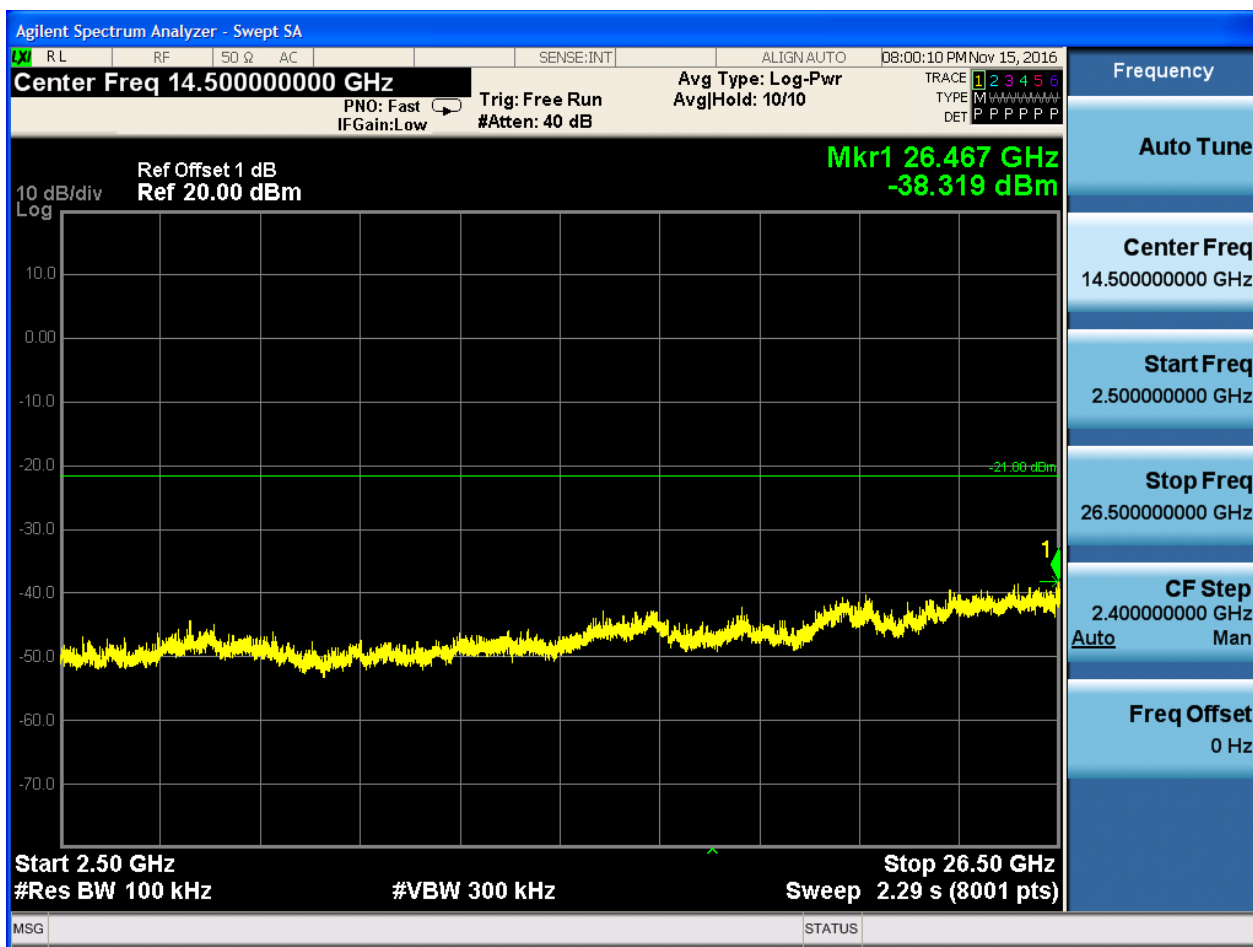
Freq Offset
0 Hz





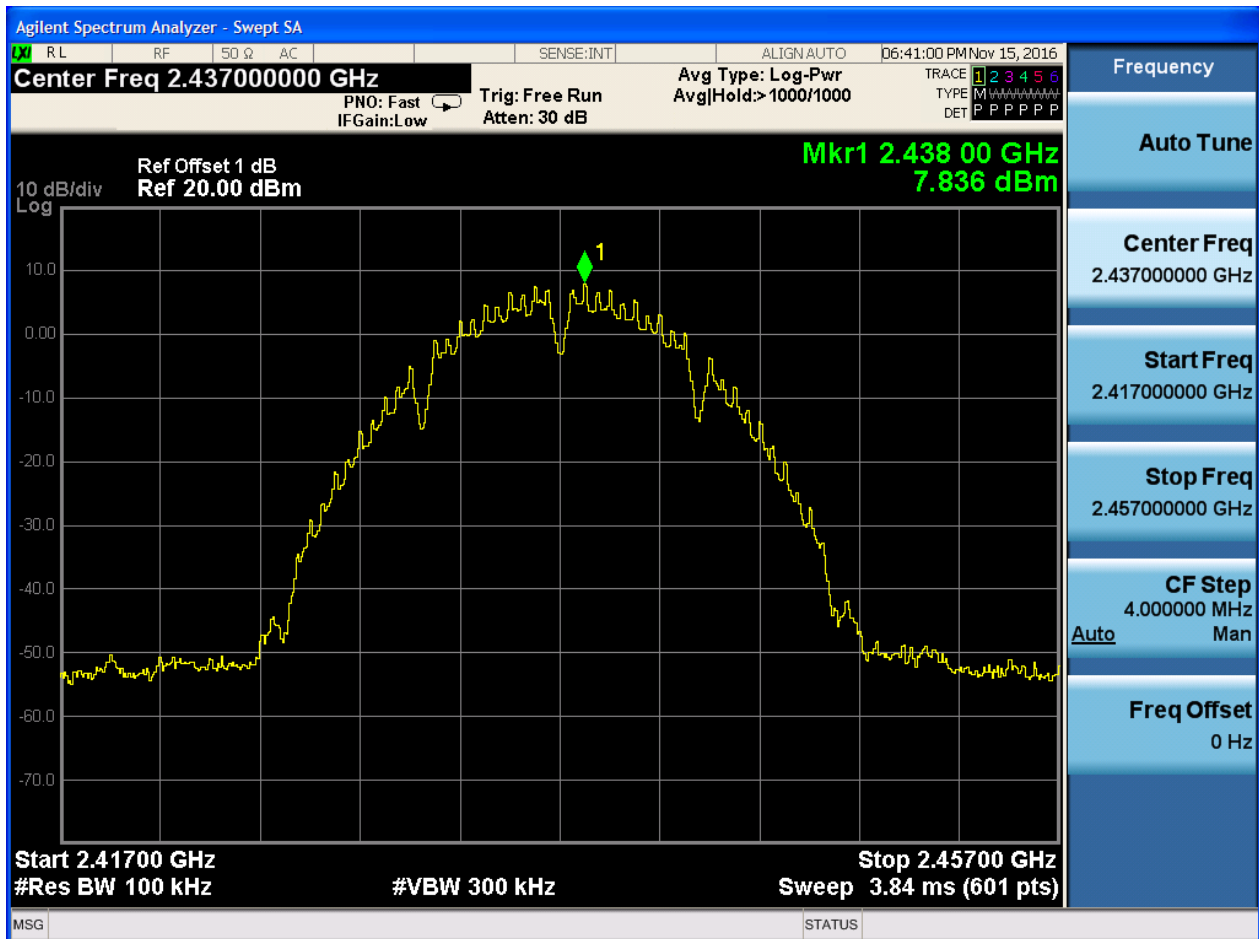






2.3 11B_M@Ant 1

Pref:





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω DC SENSE:INT ALIGN:AUTO D6:41:15 PM Nov 15, 2016

Center Freq 79.500 kHz

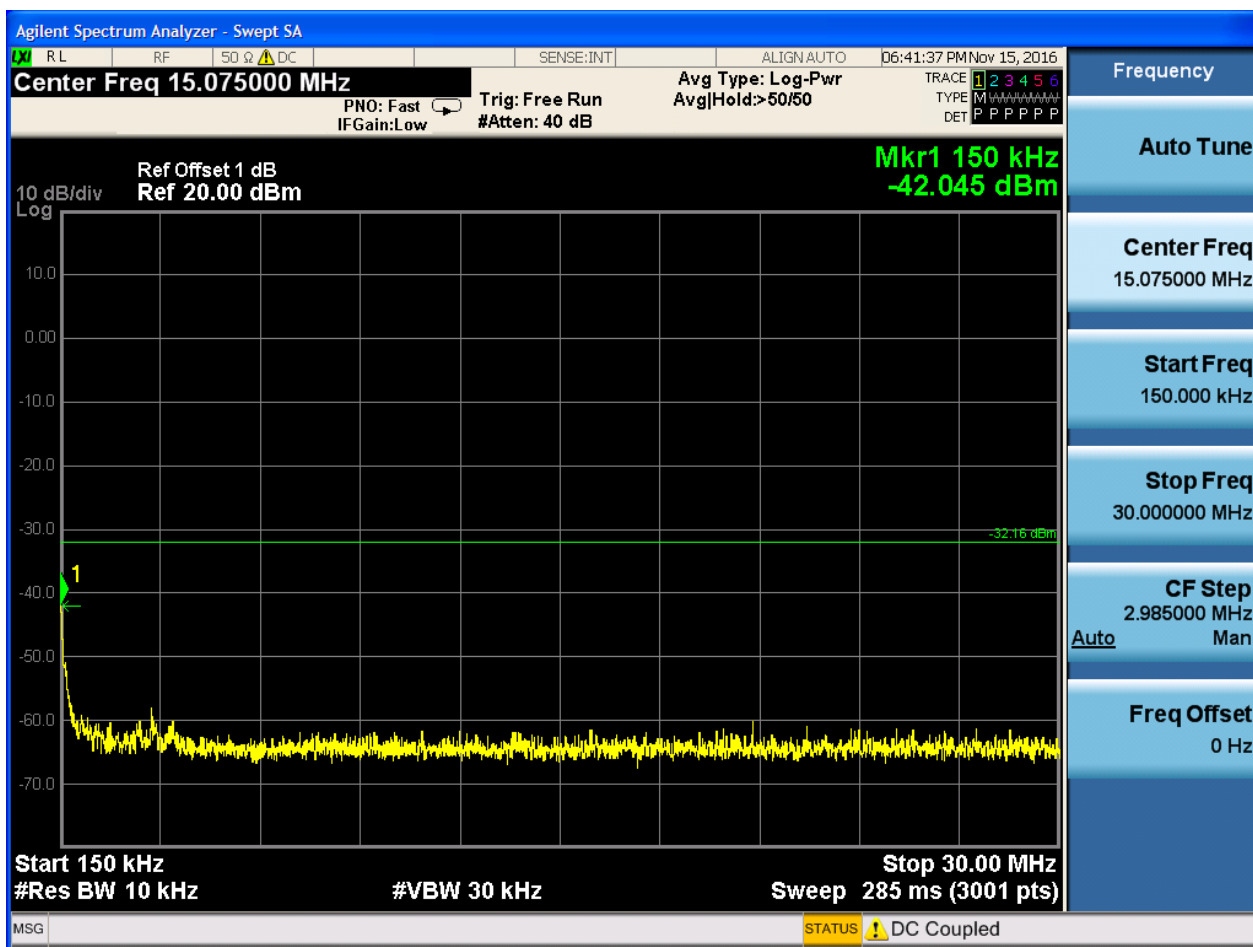
PNO: Wide Trg: Free Run Avg Type: Log-Pwr TRACE 1 2 3 4 5 6
IF Gain: Low #Atten: 26 dB Avg|Hold: >50/50 TYPE M P P P P P P P
DET P P P P P P P P

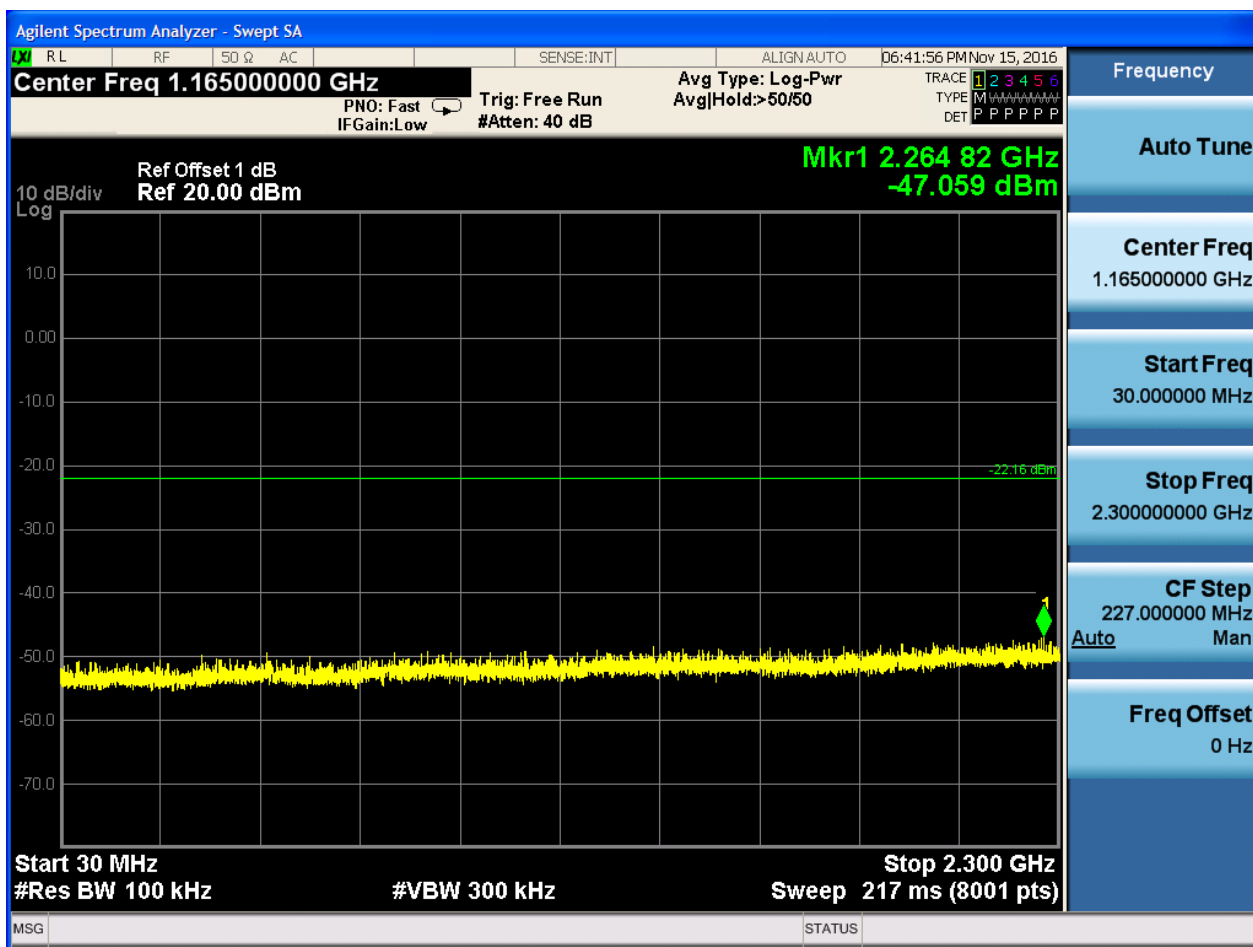
Ref Offset 1 dB Mkr1 11.820 kHz
Ref 17.00 dBm -54.530 dBm

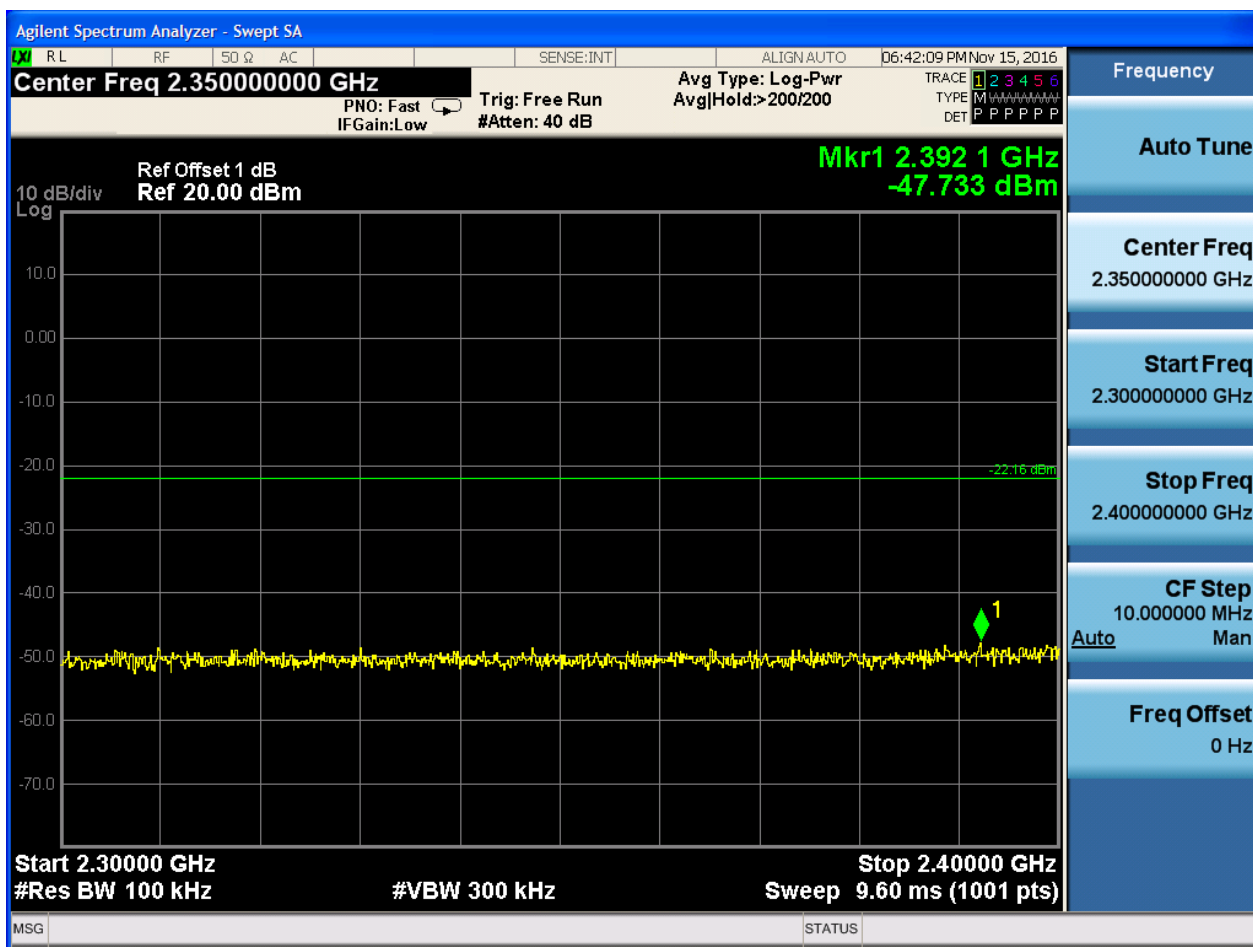
10 dB/div Log

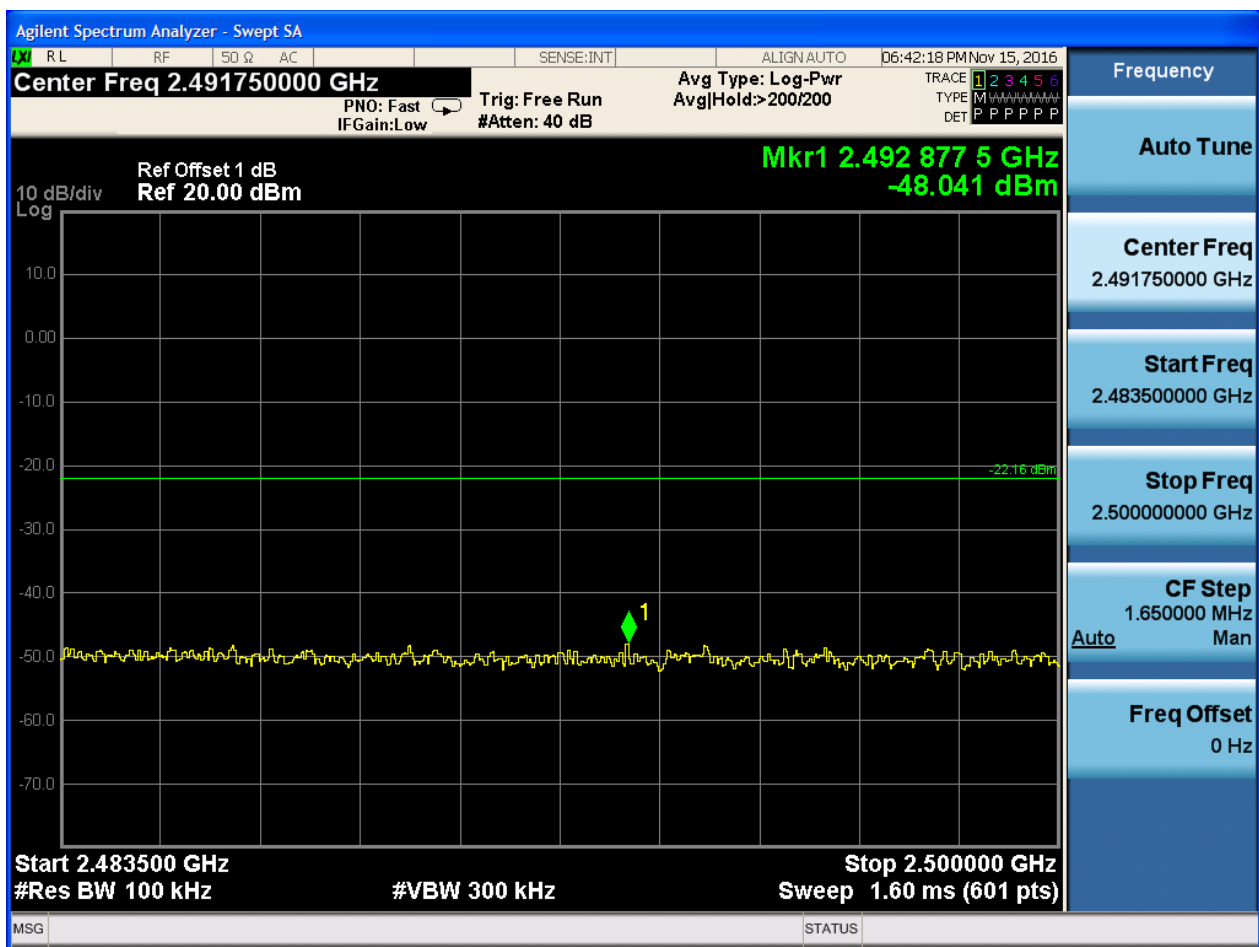
Start 9.00 kHz Stop 150.00 kHz
#Res BW 1.0 kHz #VBW 3.0 kHz Sweep 135 ms (601 pts)

MSG STATUS DC Coupled





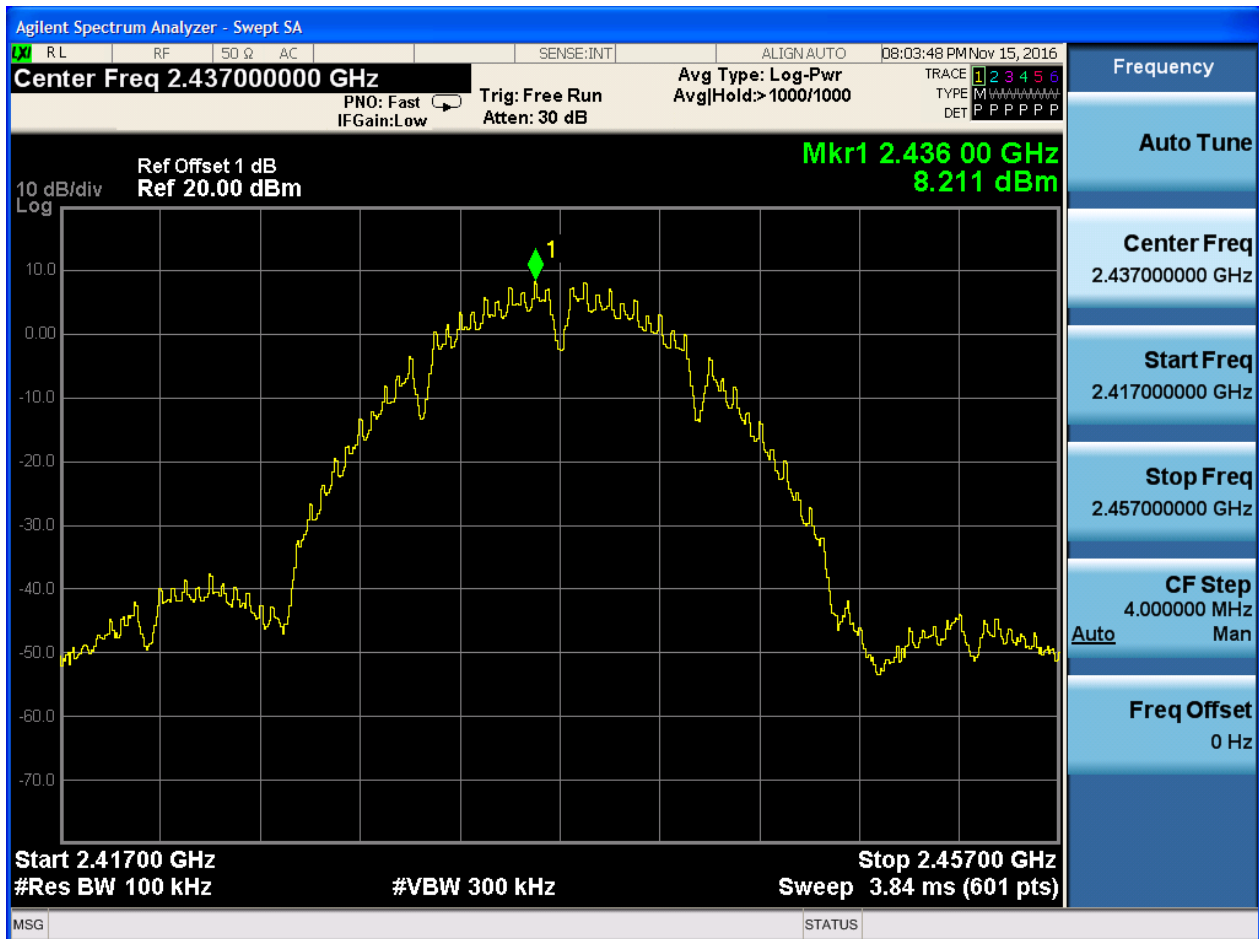






2.4 11B_M@Ant 2

Pref:





Agilent Spectrum Analyzer - Swept SA

Center Freq 79.500 kHz

PNO: Wide IF Gain: Low Trig: Free Run #Atten: 26 dB

Avg Type: Log-Pwr Avg|Hold:>50/50

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

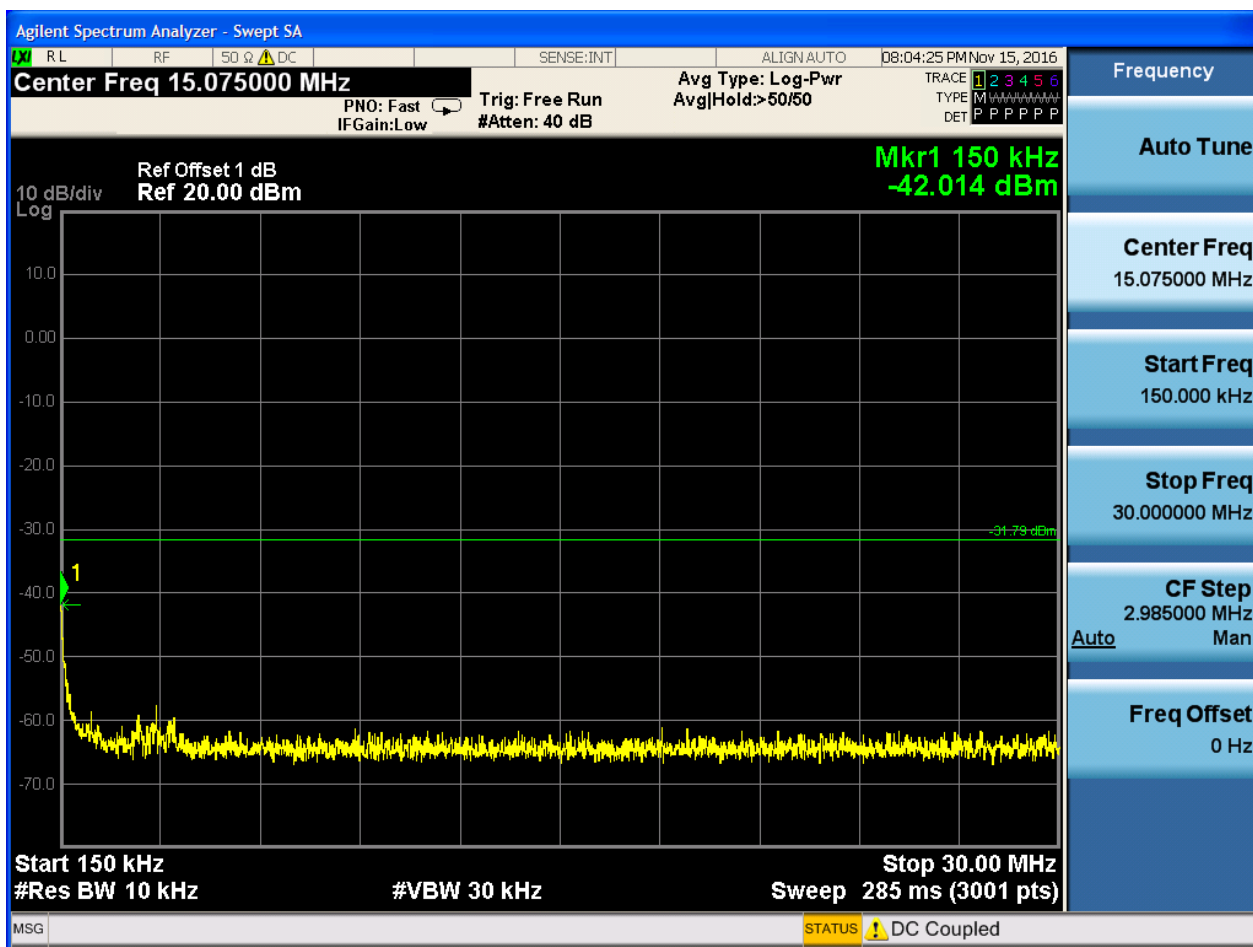
Ref Offset 1 dB
Ref 17.00 dBm

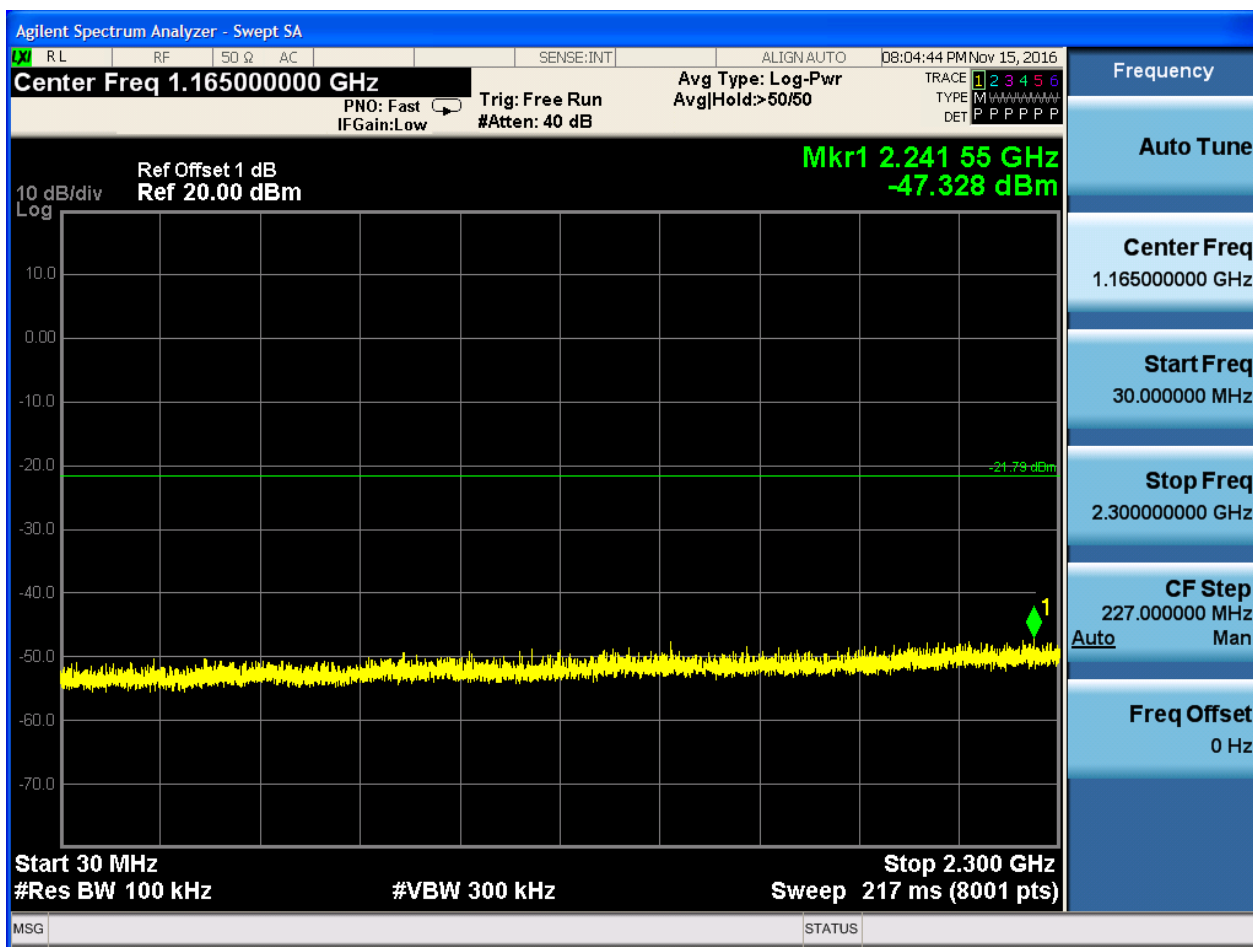
Mkr1 9.000 kHz
-51.896 dBm

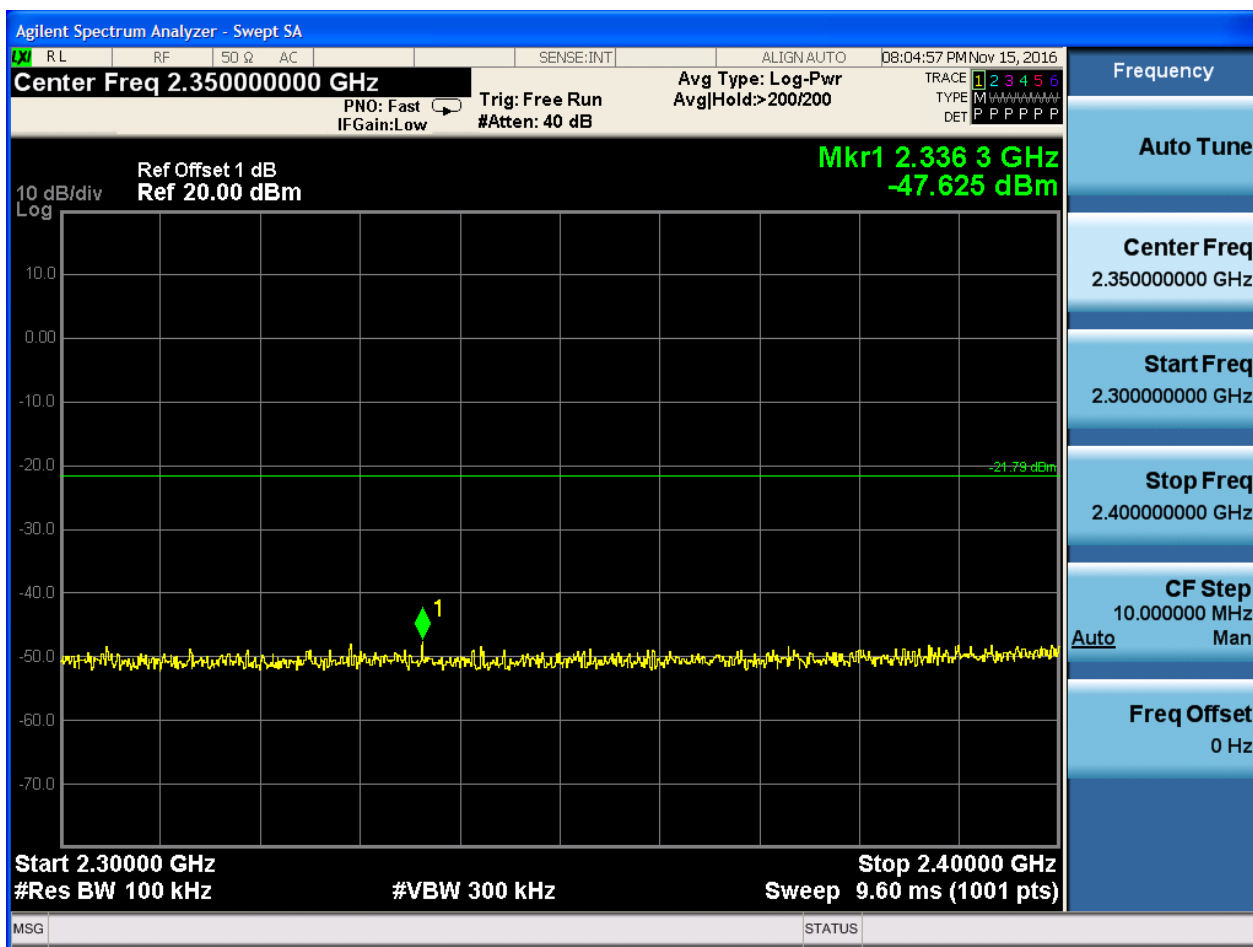
Start 9.00 kHz Stop 150.00 kHz
#Res BW 1.0 kHz #VBW 3.0 kHz Sweep 135 ms (601 pts)

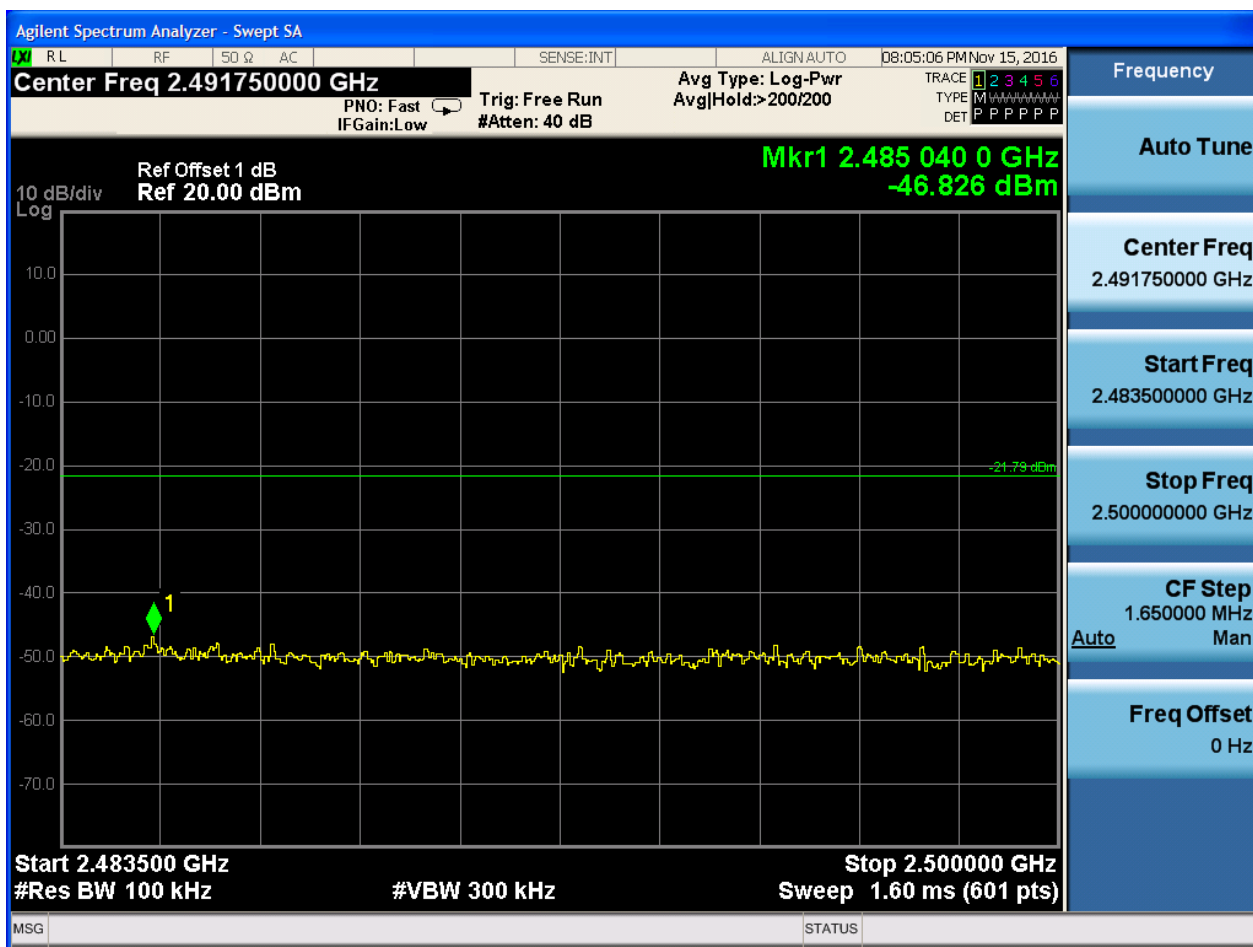
Frequency
Auto Tune
Center Freq 79.500 kHz
Start Freq 9.000 kHz
Stop Freq 150.000 kHz
CF Step 14.100 kHz Man
Freq Offset 0 Hz

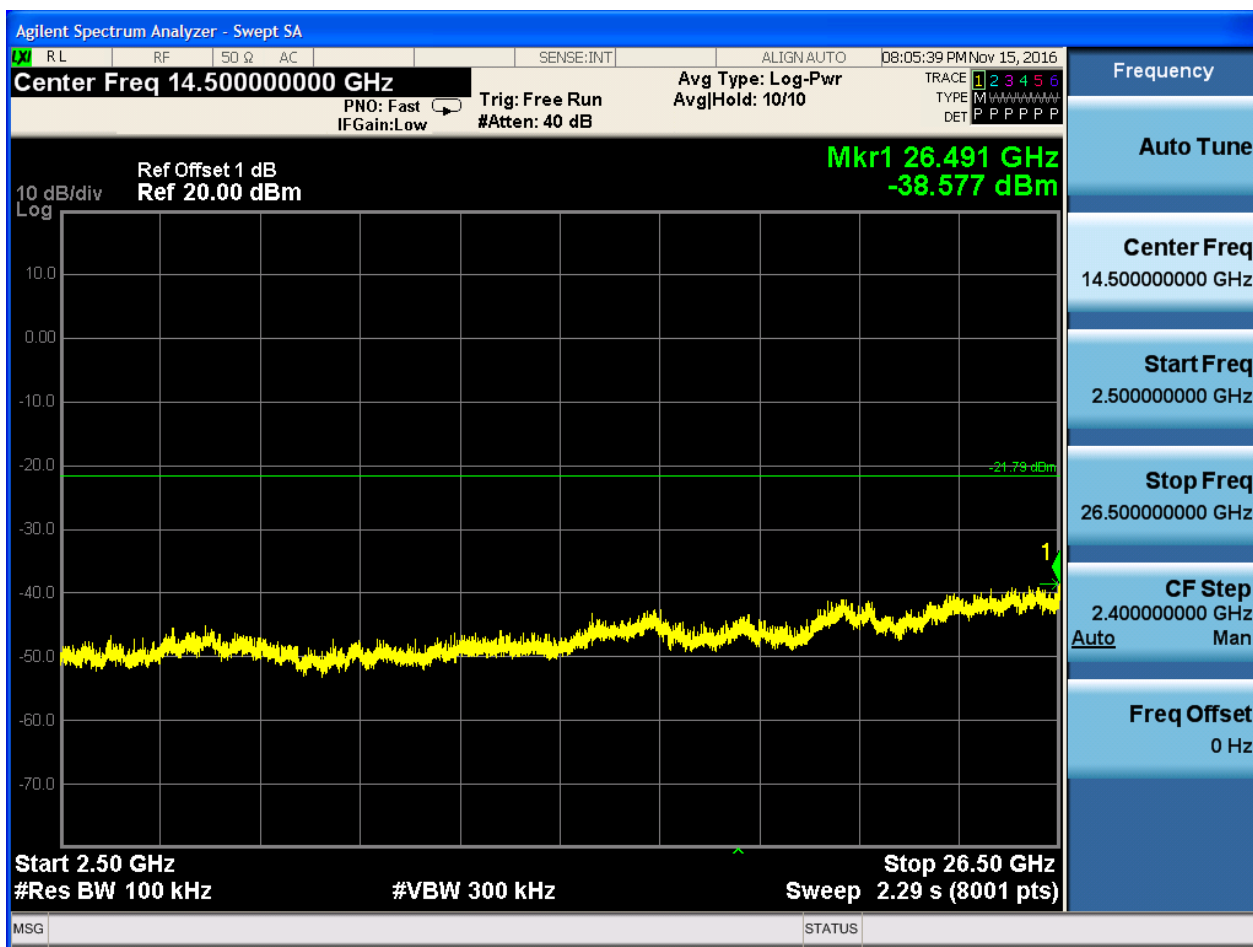
MSG STATUS ! DC Coupled







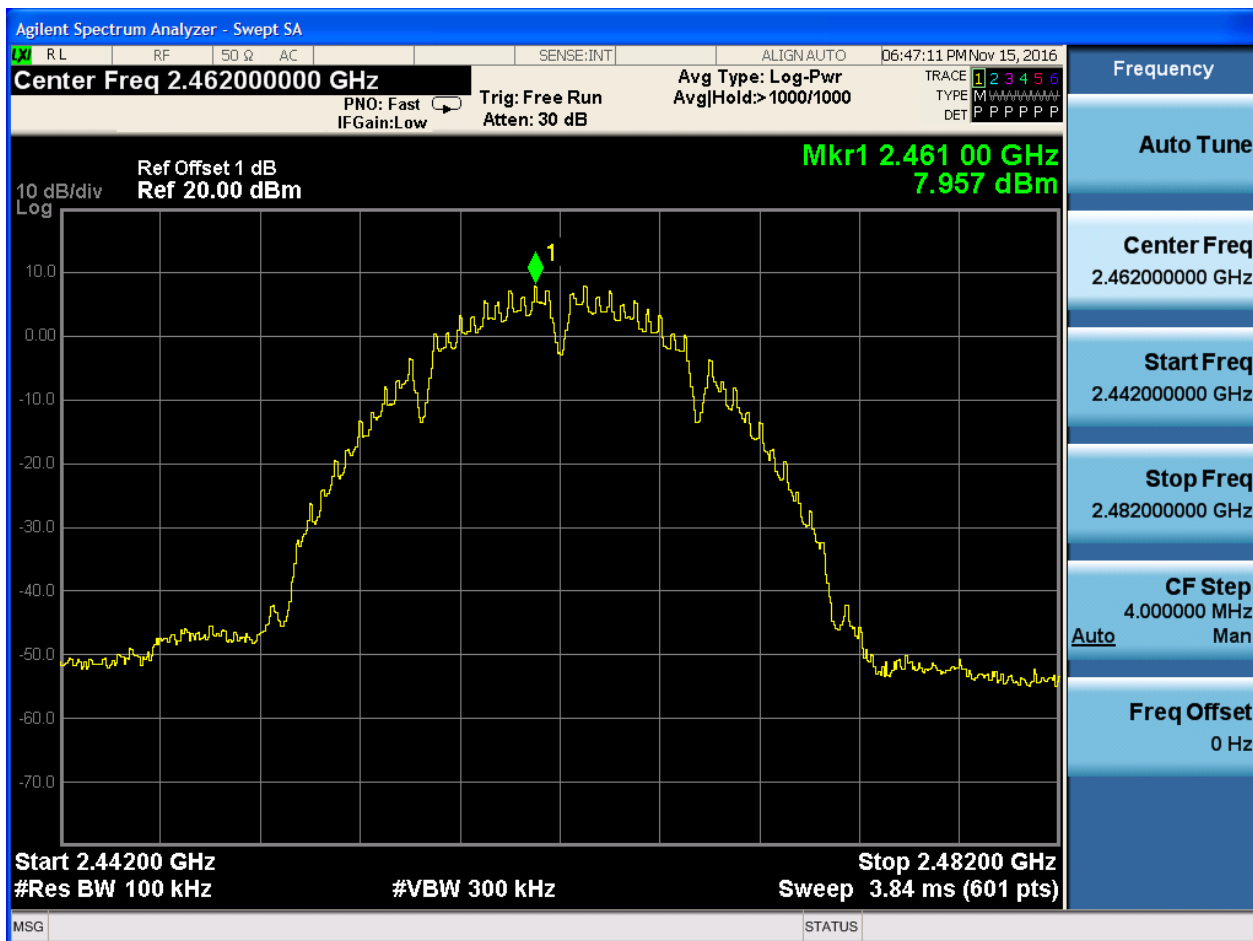






2.5 11B_H@Ant 1

Pref:





Agilent Spectrum Analyzer - Swept SA

Center Freq 79.500 kHz

Ref Offset 1 dB
Ref 17.00 dBm

10 dB/div
Log

Mkr1 9.000 kHz
-53.562 dBm

Start 9.00 kHz
#Res BW 1.0 kHz

Stop 150.00 kHz
Sweep 135 ms (601 pts)

#VBW 3.0 kHz

Trig: Free Run
#Atten: 26 dB

PNO: Wide
IFGain: Low

Avg Type: Log-Pwr
Avg|Hold:>50/50

ALIGN AUTO

06:47:26 PM Nov 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

Frequency

Auto Tune

Center Freq
79.500 kHz

Start Freq
9.000 kHz

Stop Freq
150.000 kHz

CF Step
14.100 kHz
Man

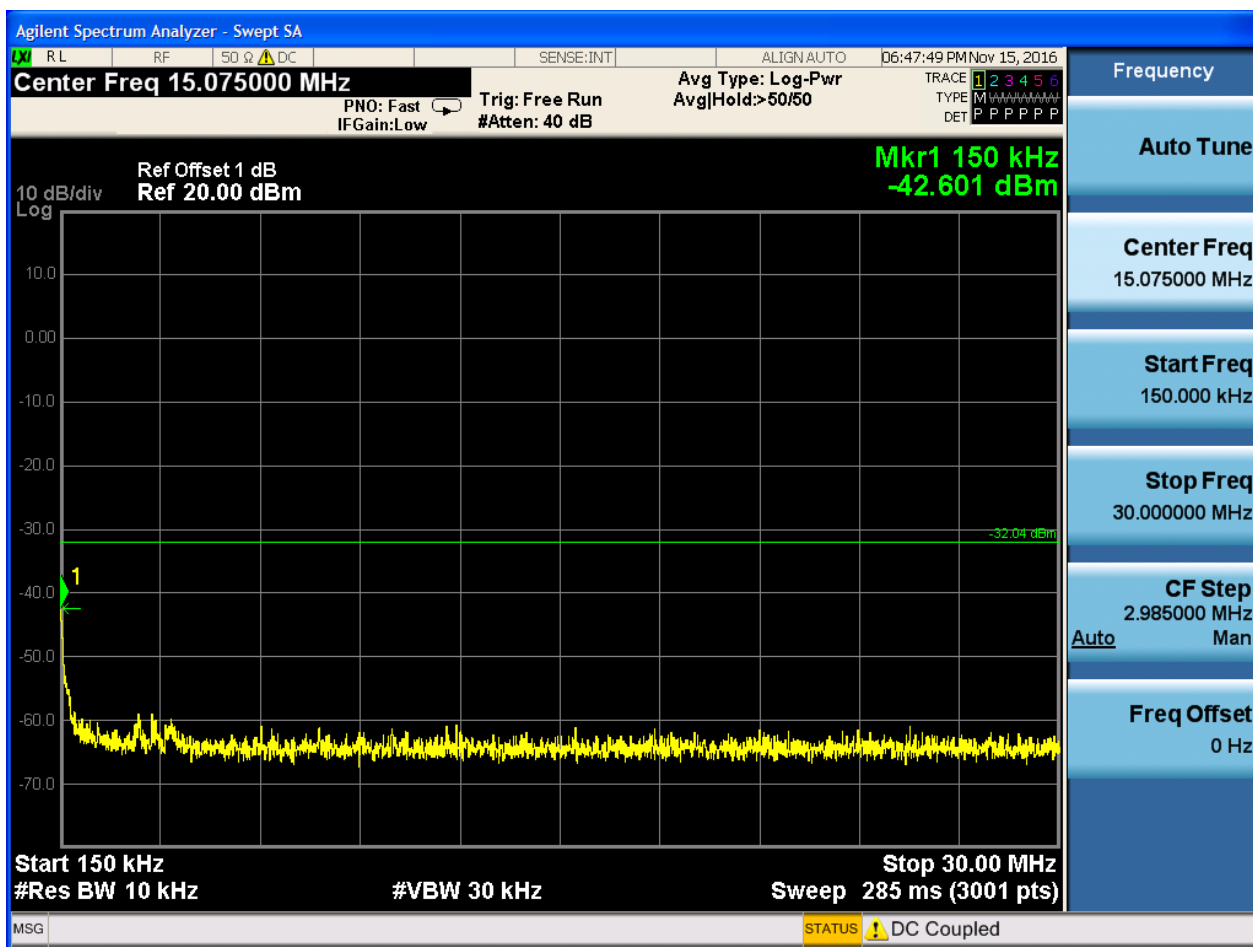
Auto

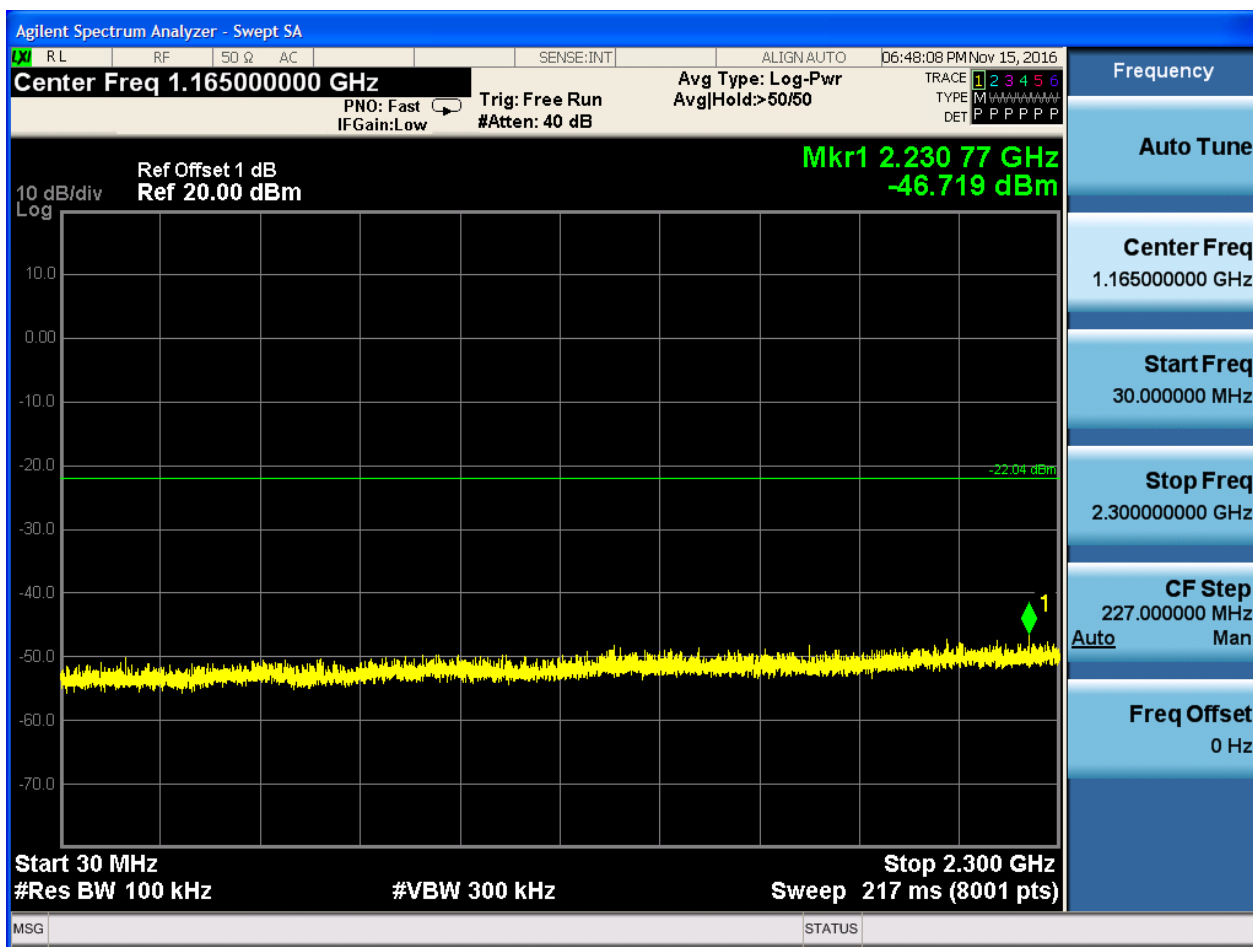
Freq Offset
0 Hz

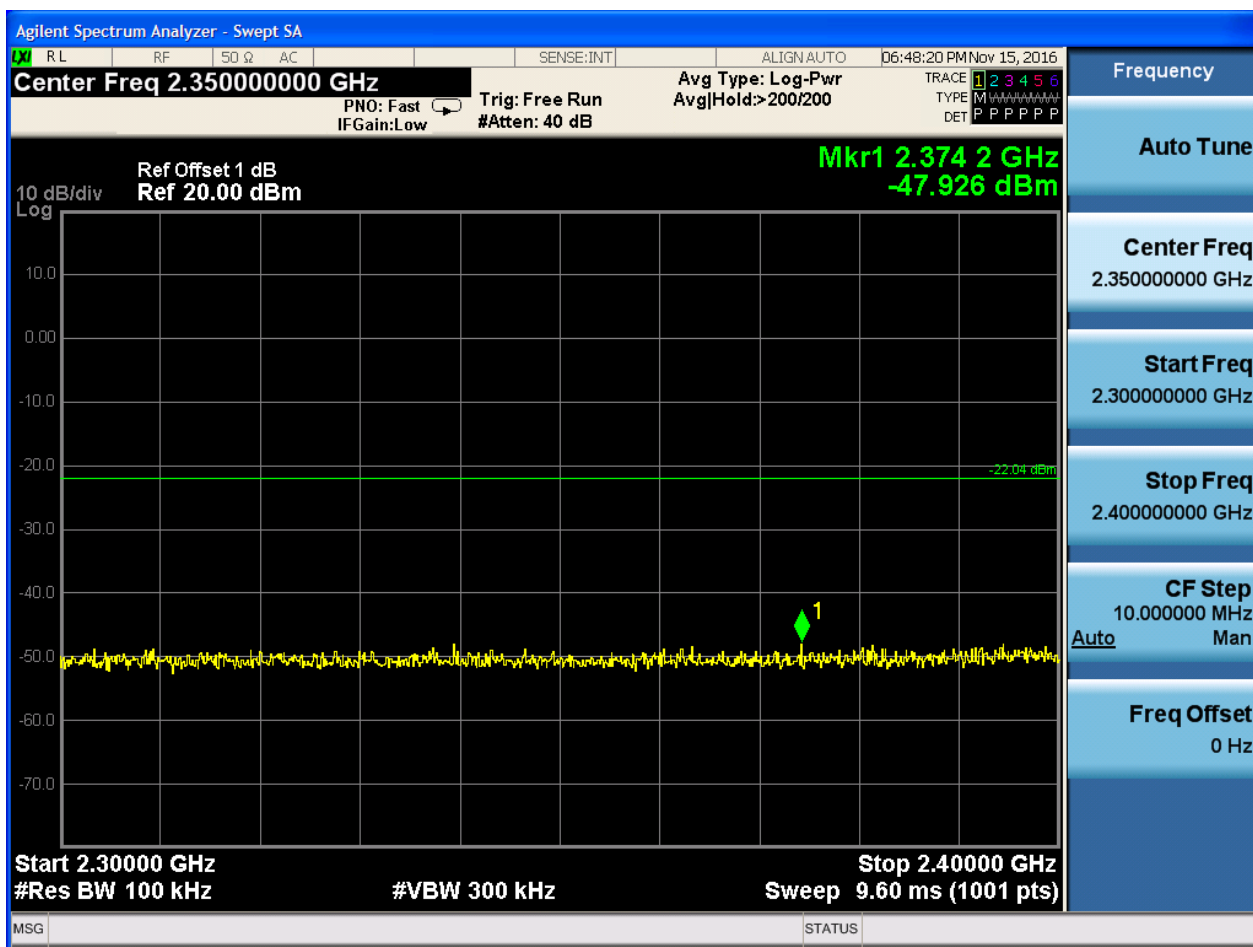
MSG

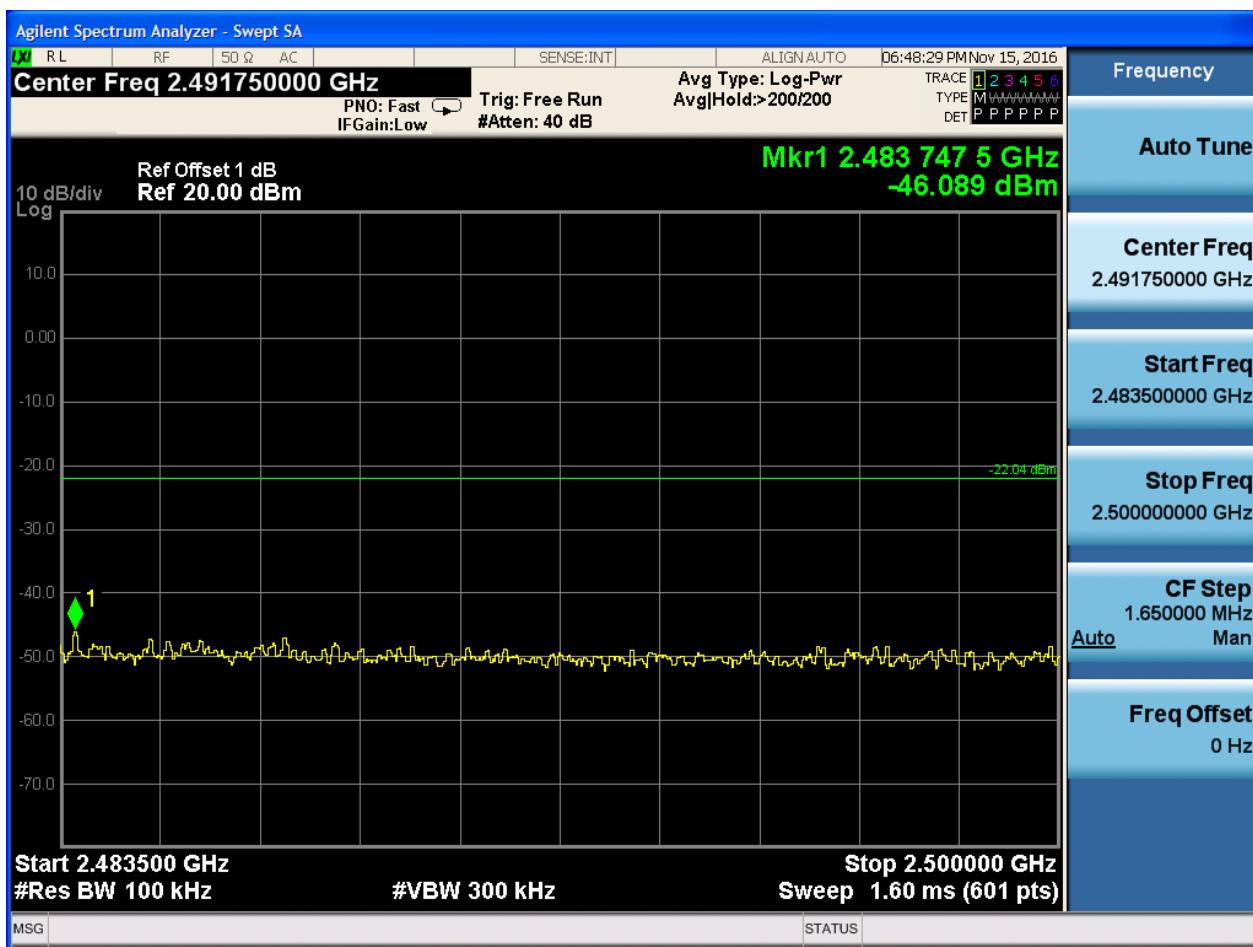
STATUS

! DC Coupled







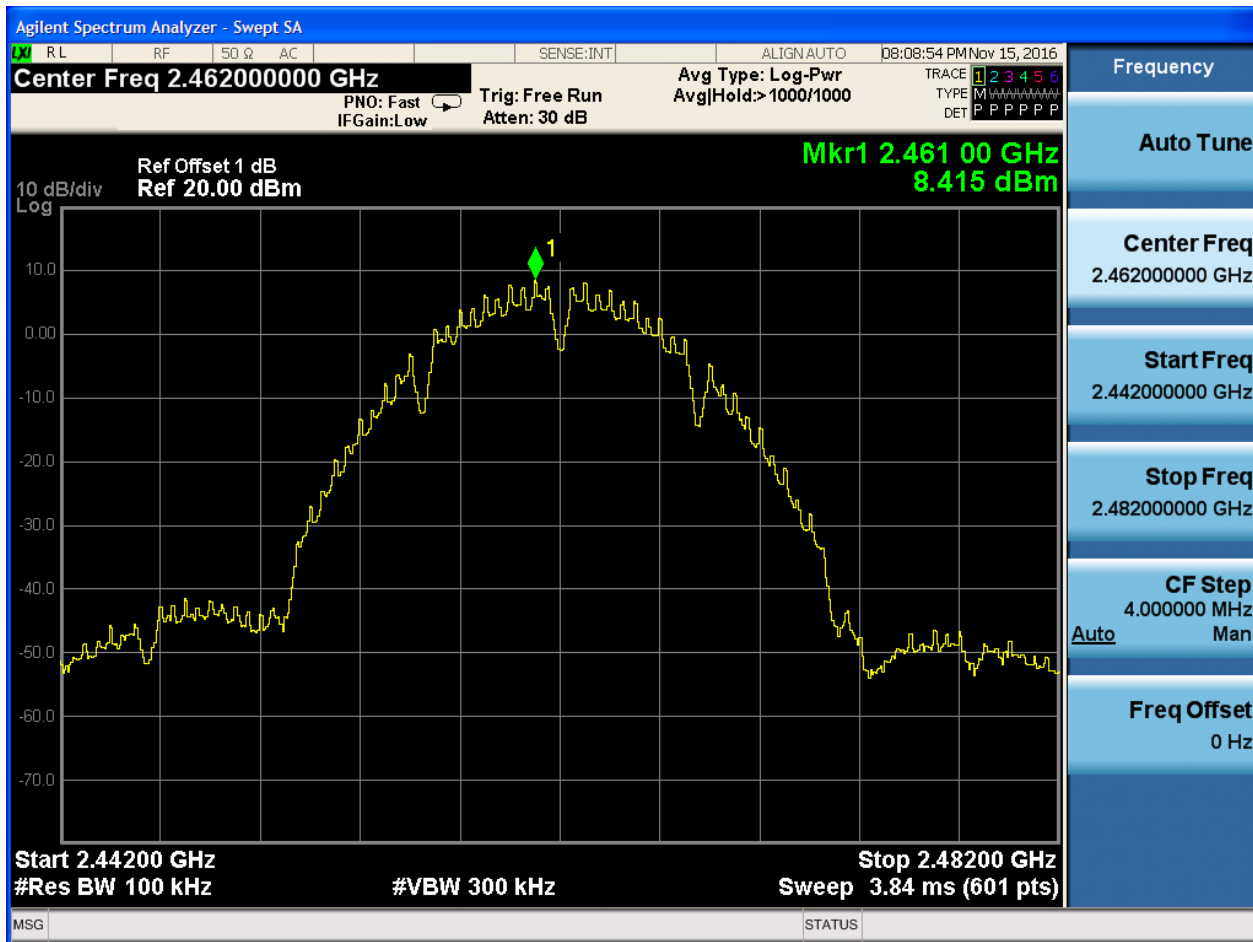






2.6 11B_H@Ant 2

Pref:





Agilent Spectrum Analyzer - Swept SA

Center Freq 79.500 kHz

Ref Offset 1 dB
Ref 17.00 dBm

Mkr1 9.940 kHz
-54.382 dBm

Start 9.00 kHz
#Res BW 1.0 kHz

Stop 150.00 kHz
Sweep 135 ms (601 pts)

#VBW 3.0 kHz

10 dB/div
Log

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

1

-41.59 dBm

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

DC Coupled

Agilent Spectrum Analyzer - Swept SA

Center Freq 79.500 kHz

Ref Offset 1 dB
Ref 17.00 dBm

Mkr1 9.940 kHz
-54.382 dBm

Start 9.00 kHz
#Res BW 1.0 kHz

Stop 150.00 kHz
Sweep 135 ms (601 pts)

#VBW 3.0 kHz

10 dB/div
Log

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

1

-41.59 dBm

Frequency

Auto Tune

Center Freq
79.500 kHz

Start Freq
9.000 kHz

Stop Freq
150.000 kHz

CF Step
14.100 kHz
Man

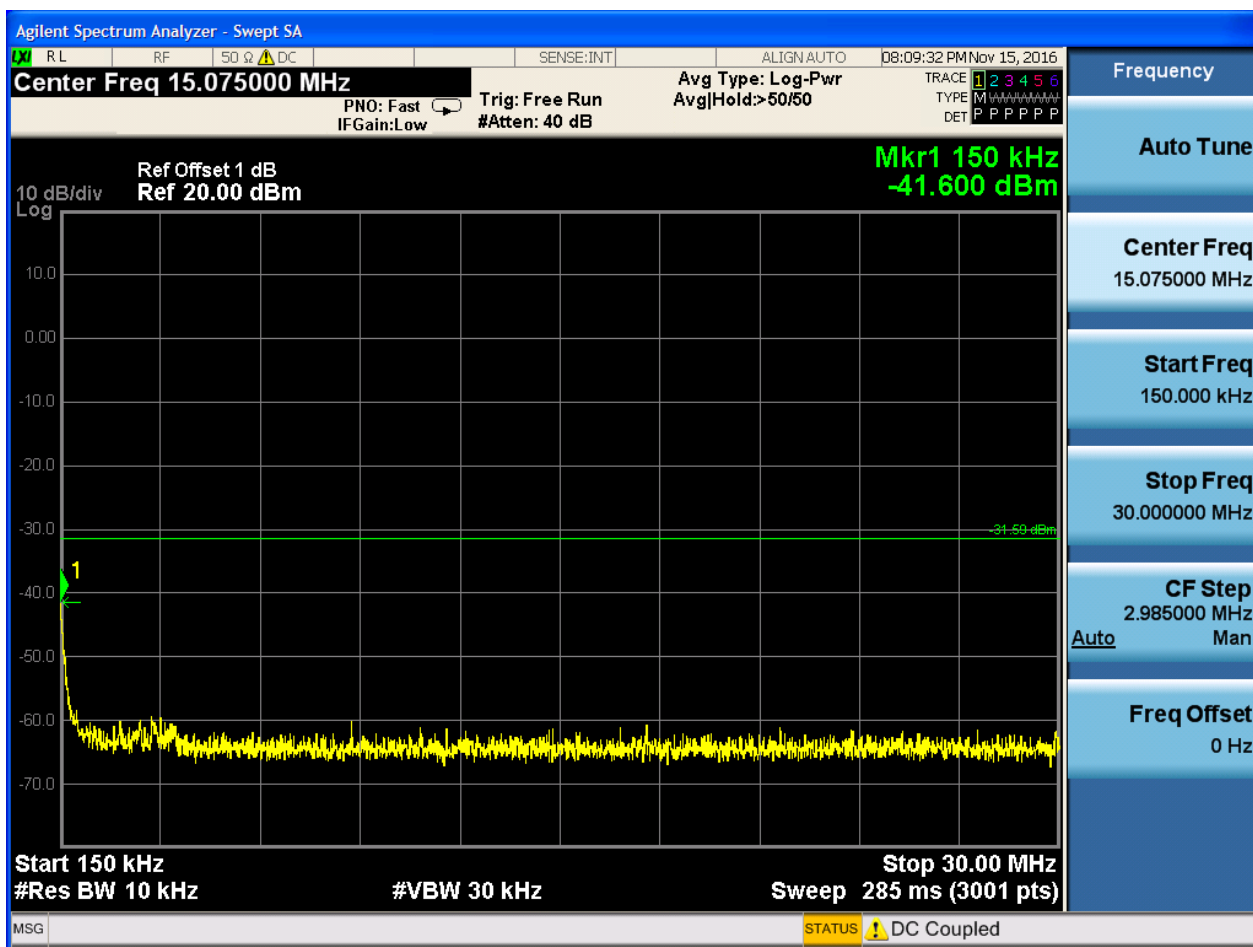
Auto

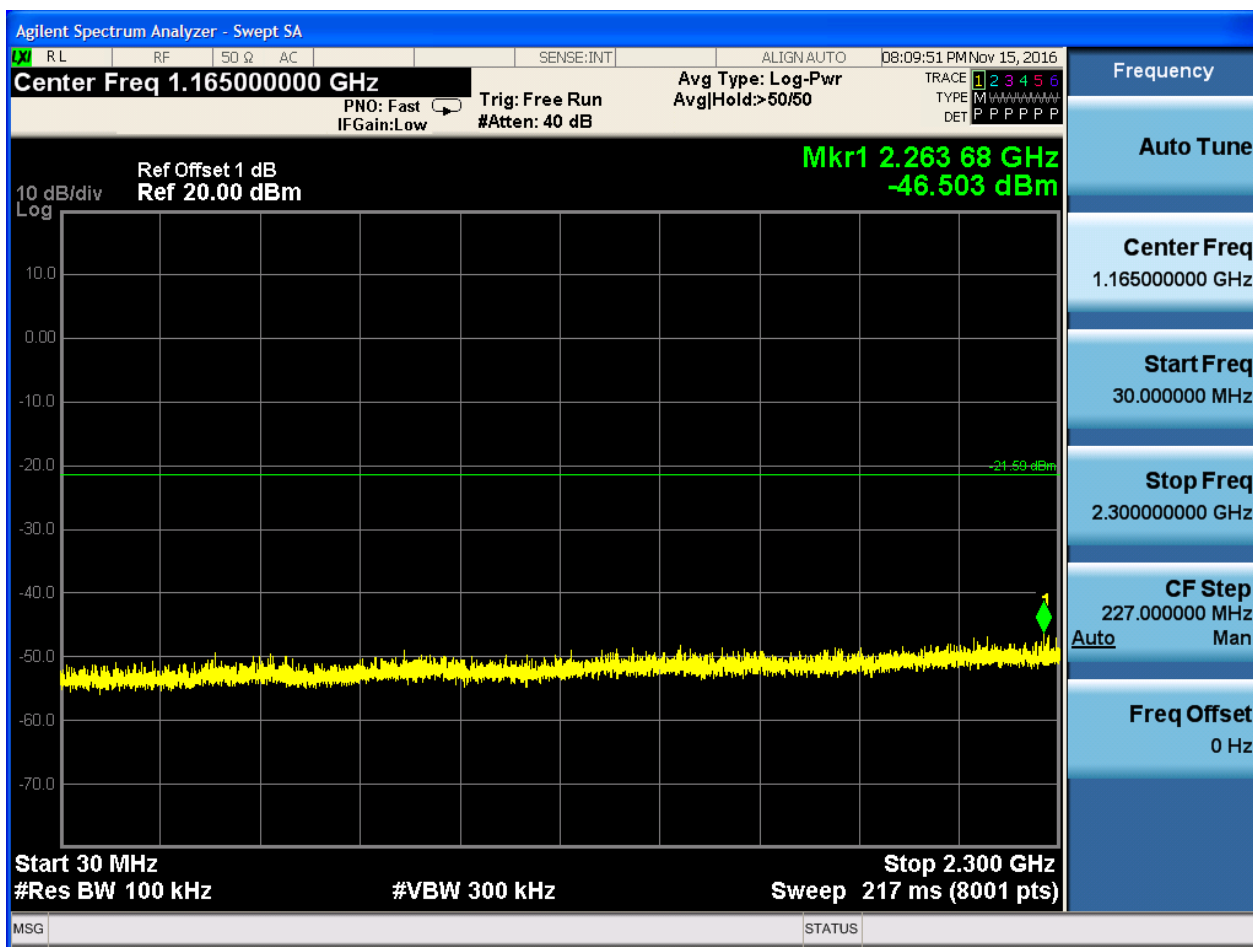
Freq Offset
0 Hz

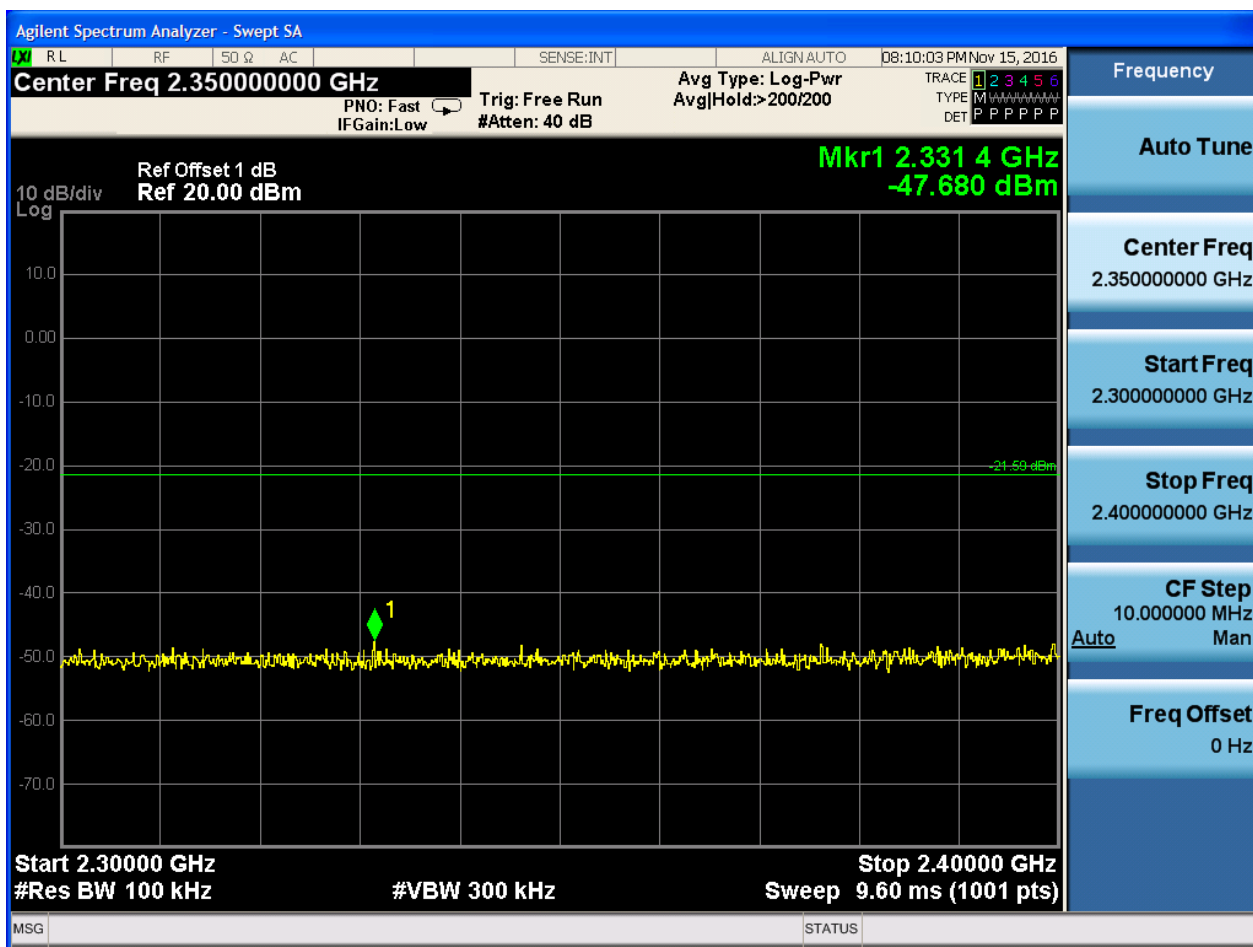
MSG

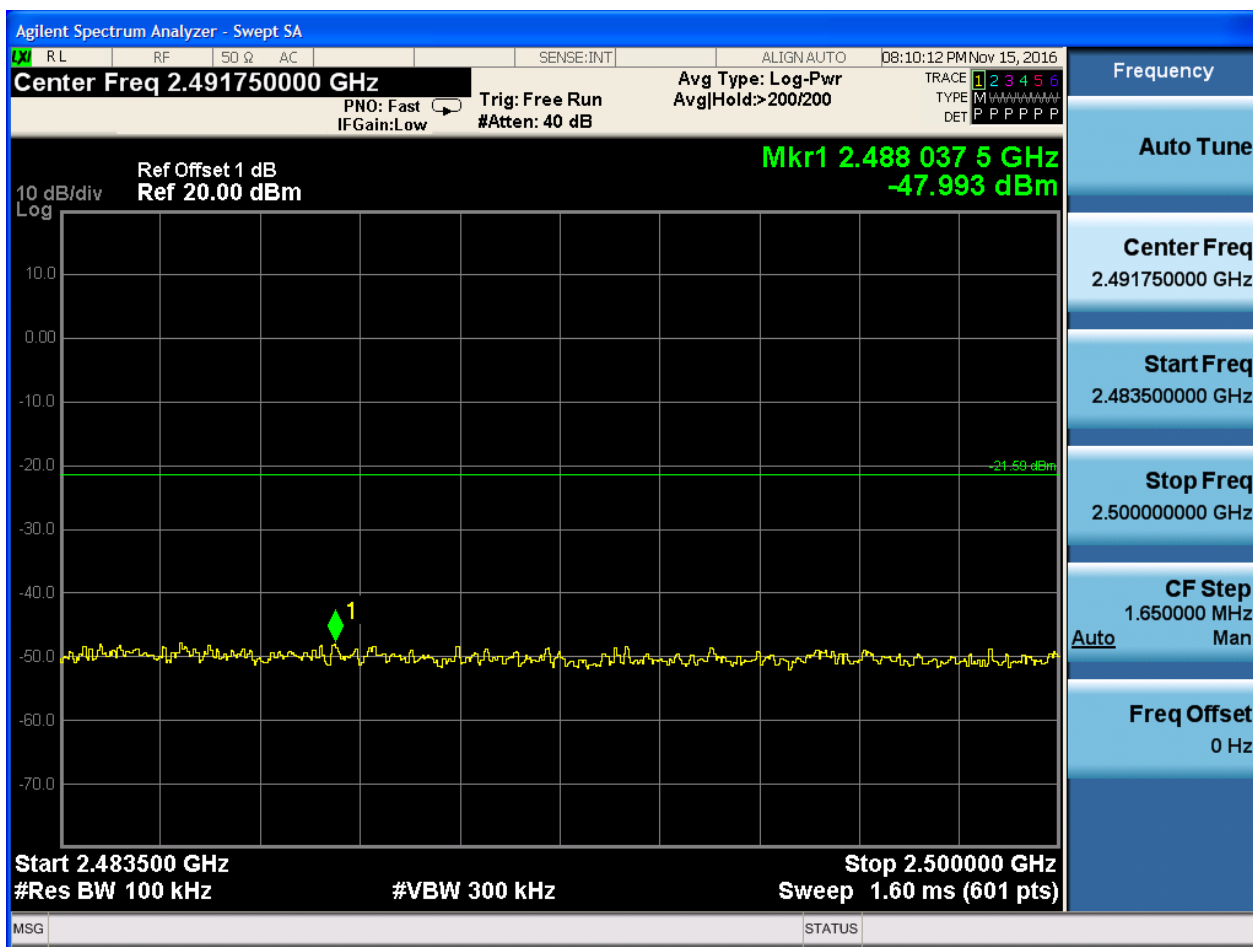
STATUS

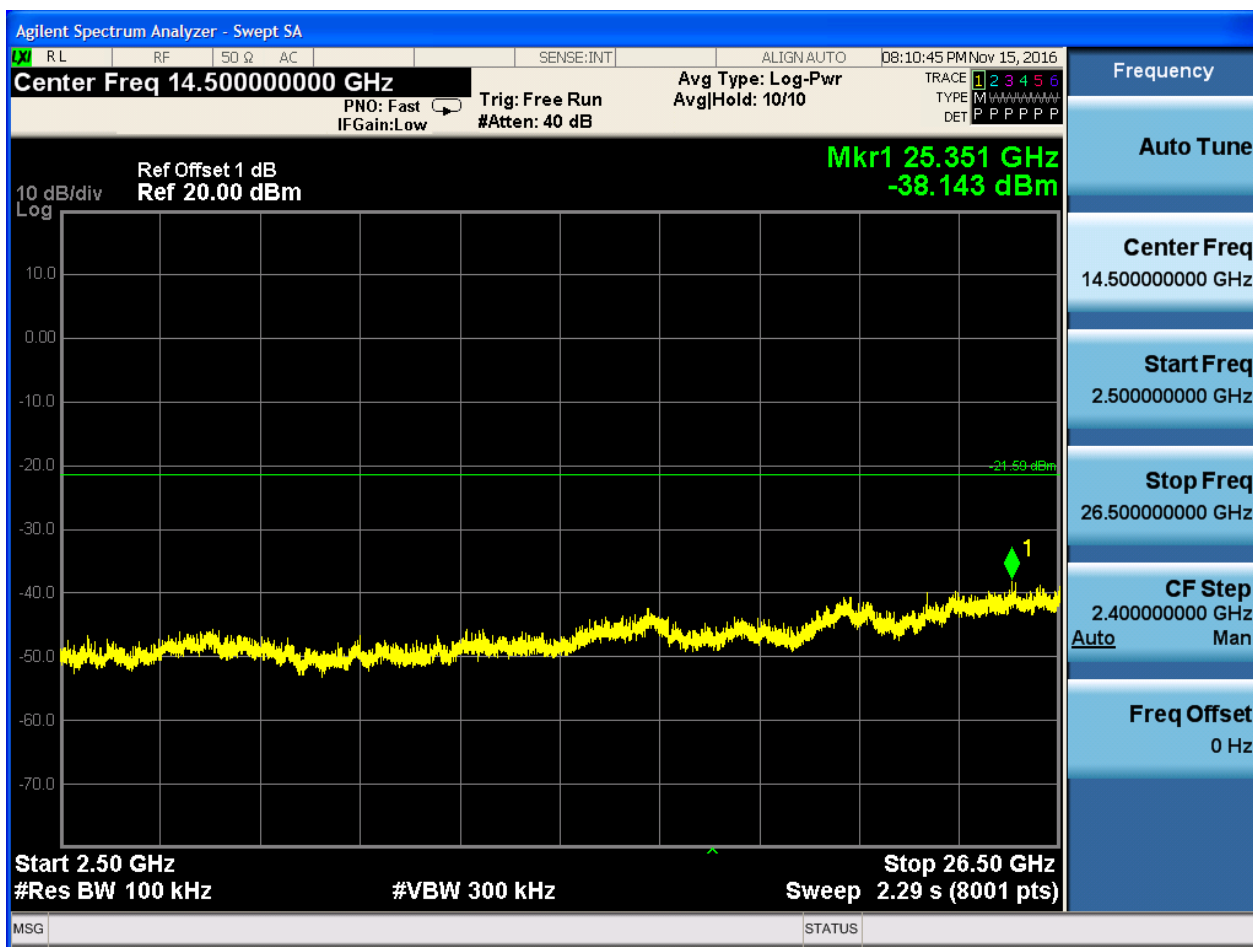
DC Coupled







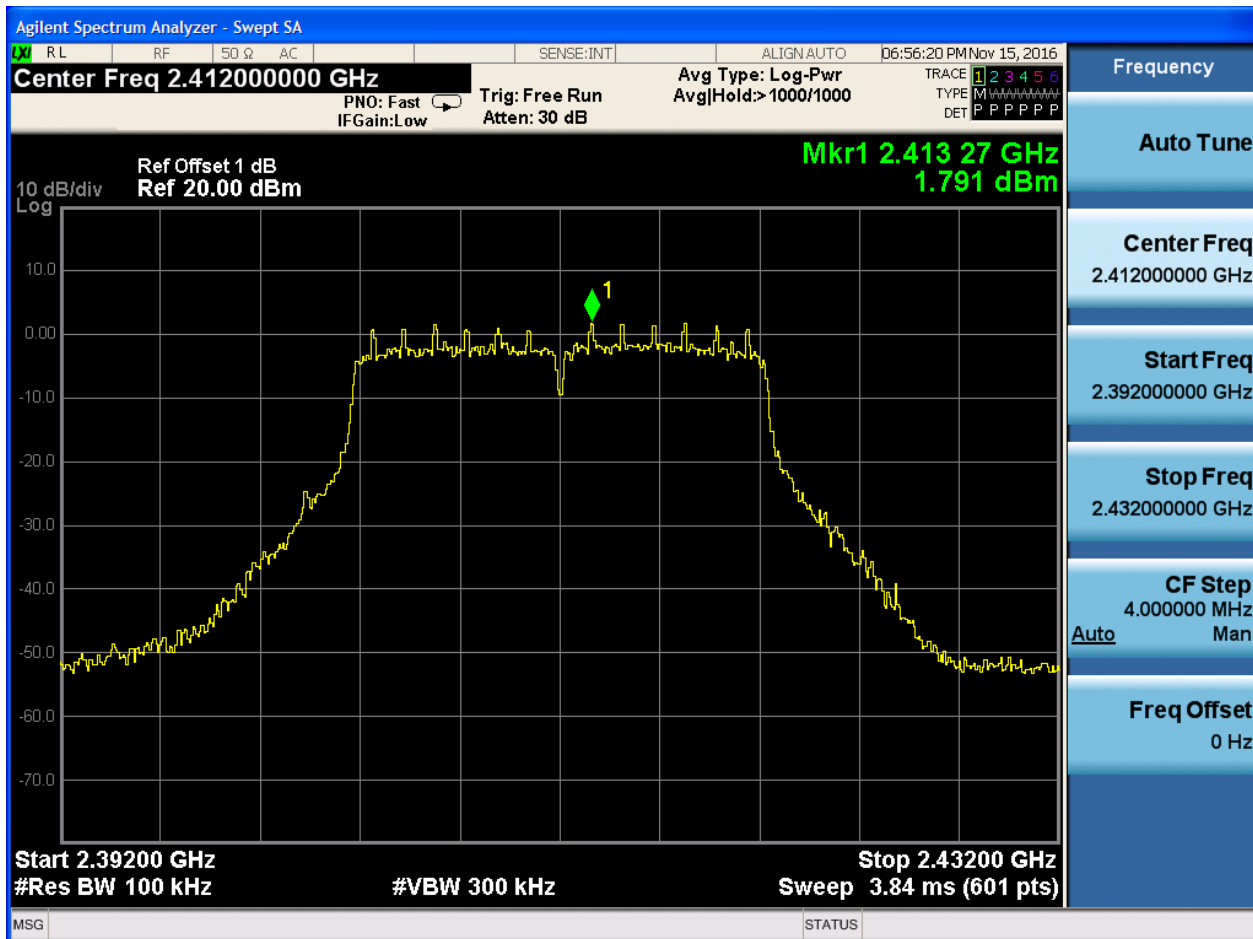






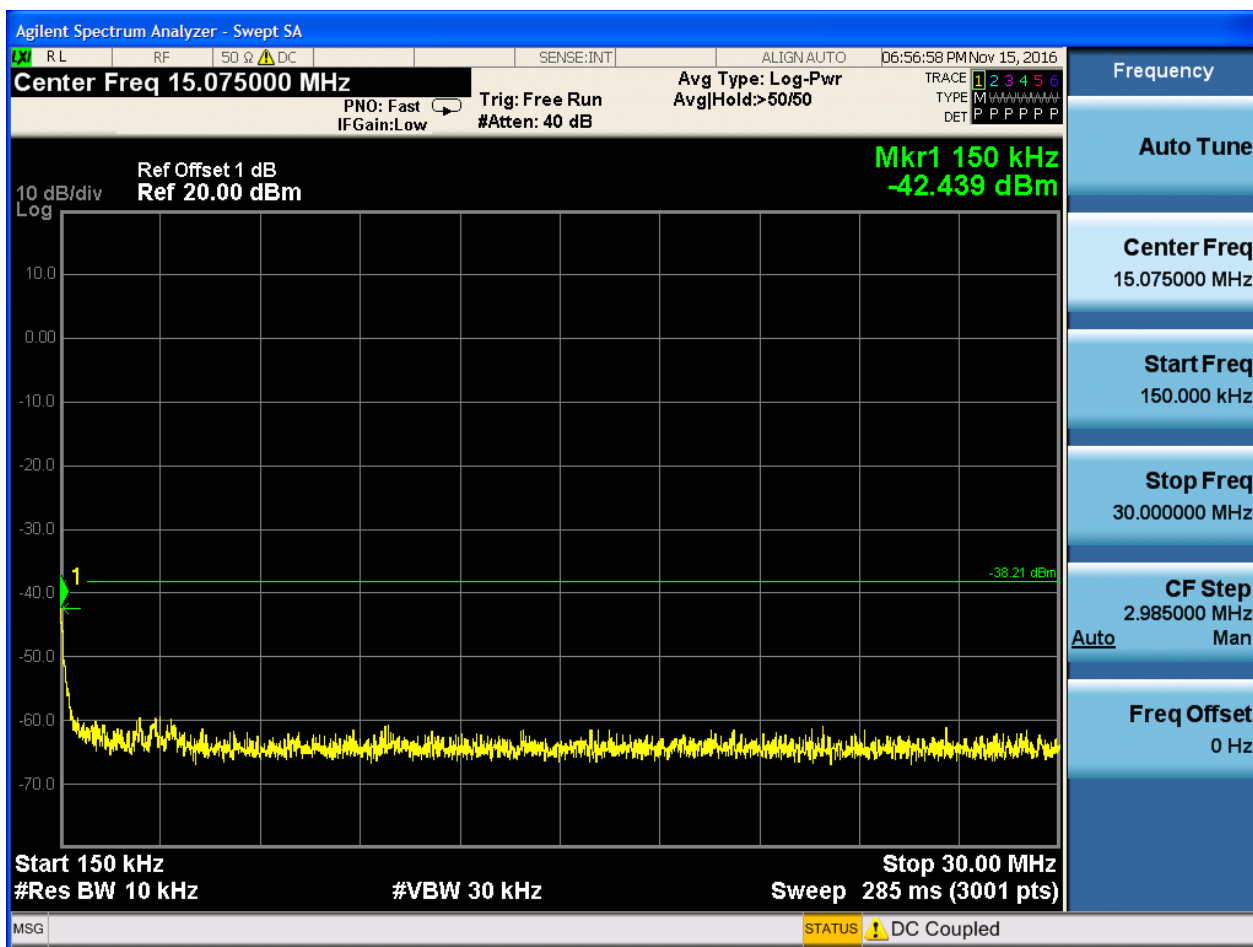
2.7 11G_L@Ant 1

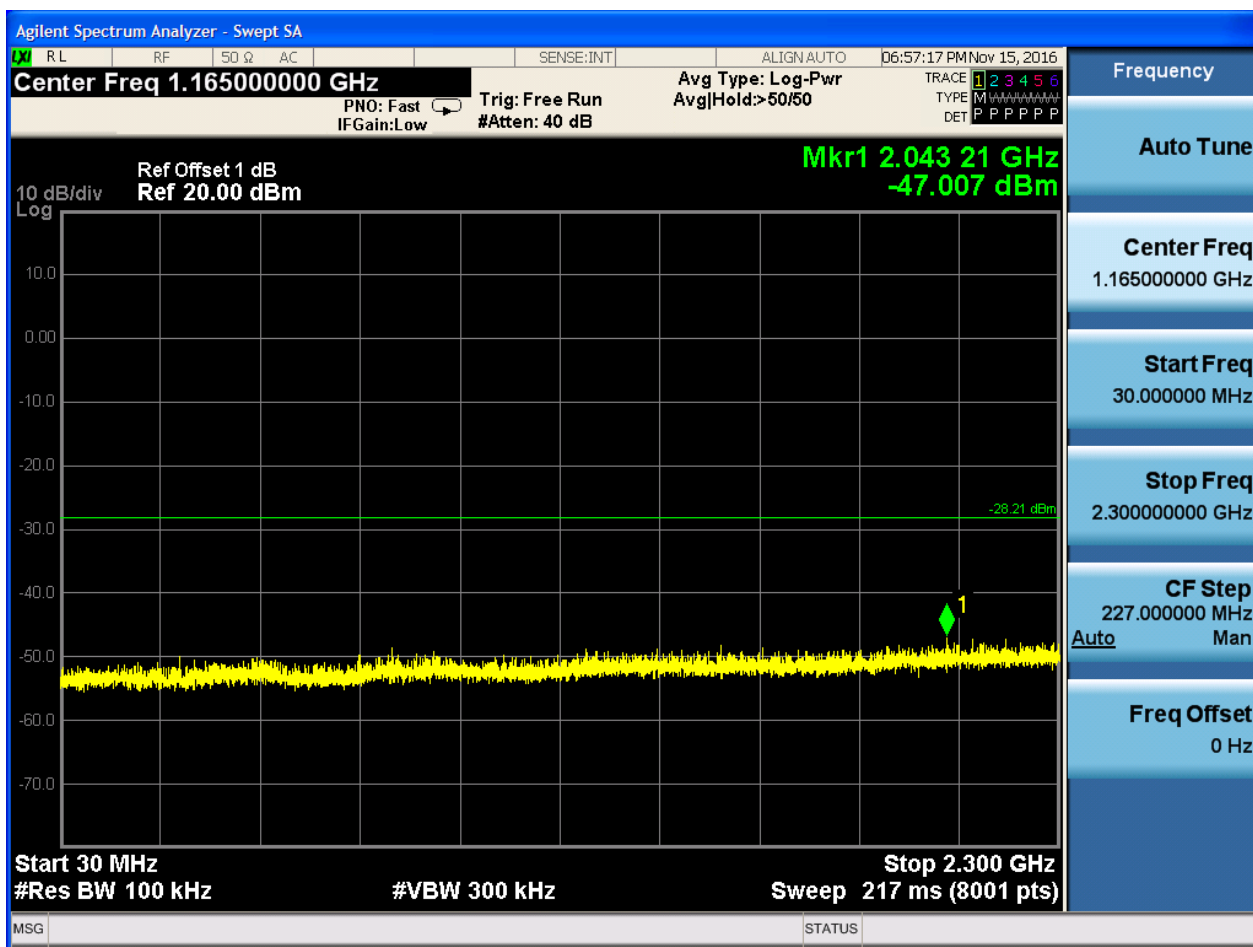
Pref:

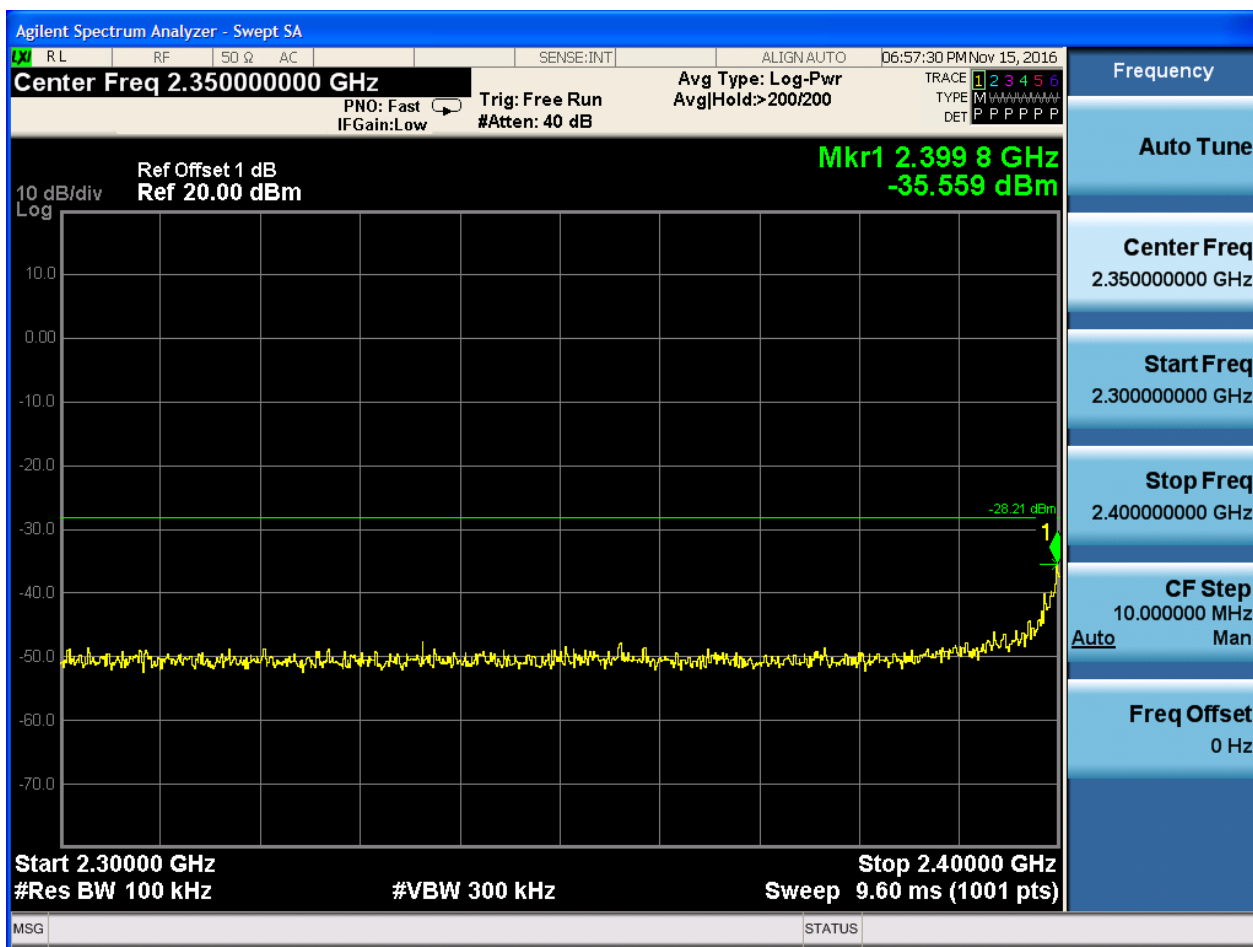


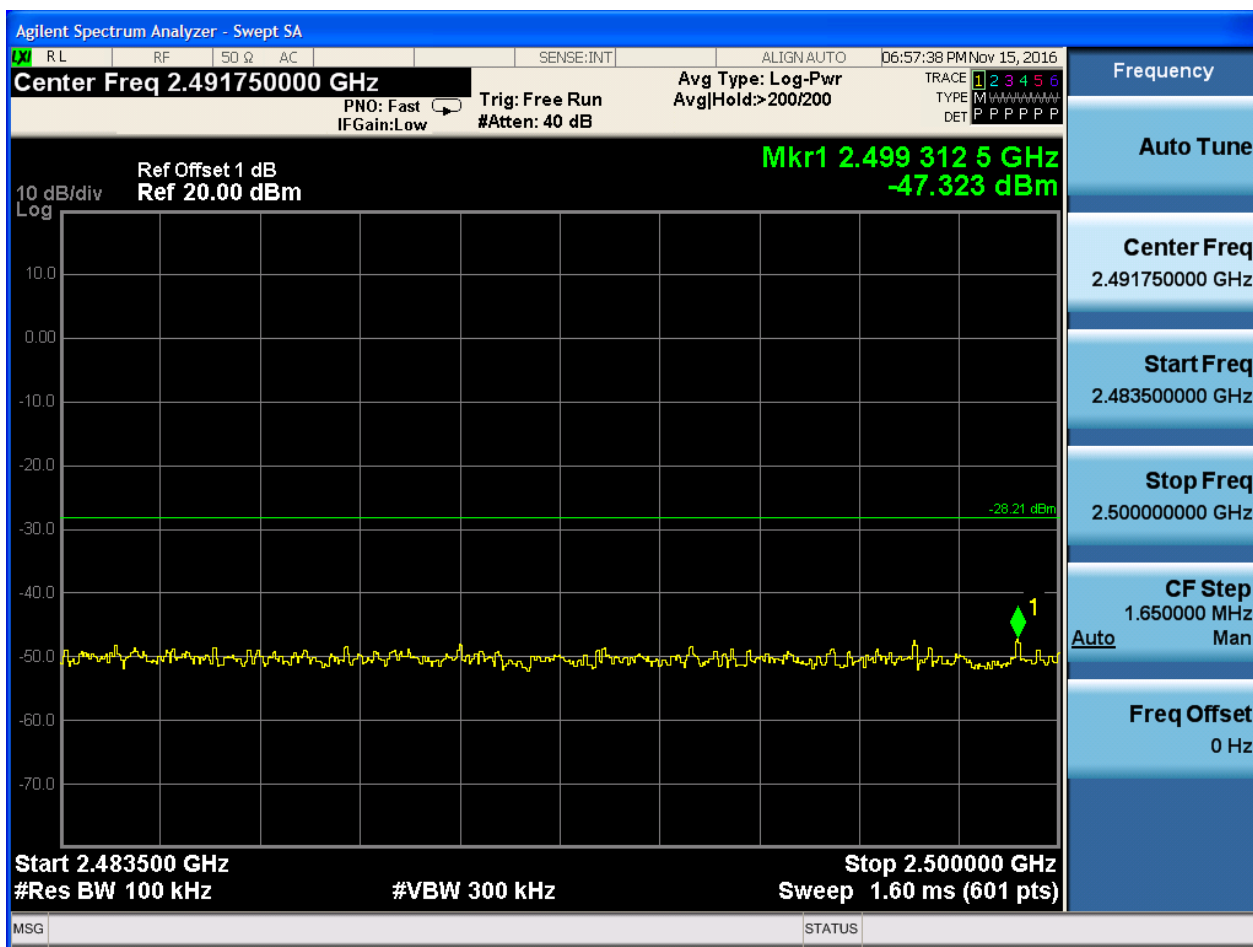
Puw:

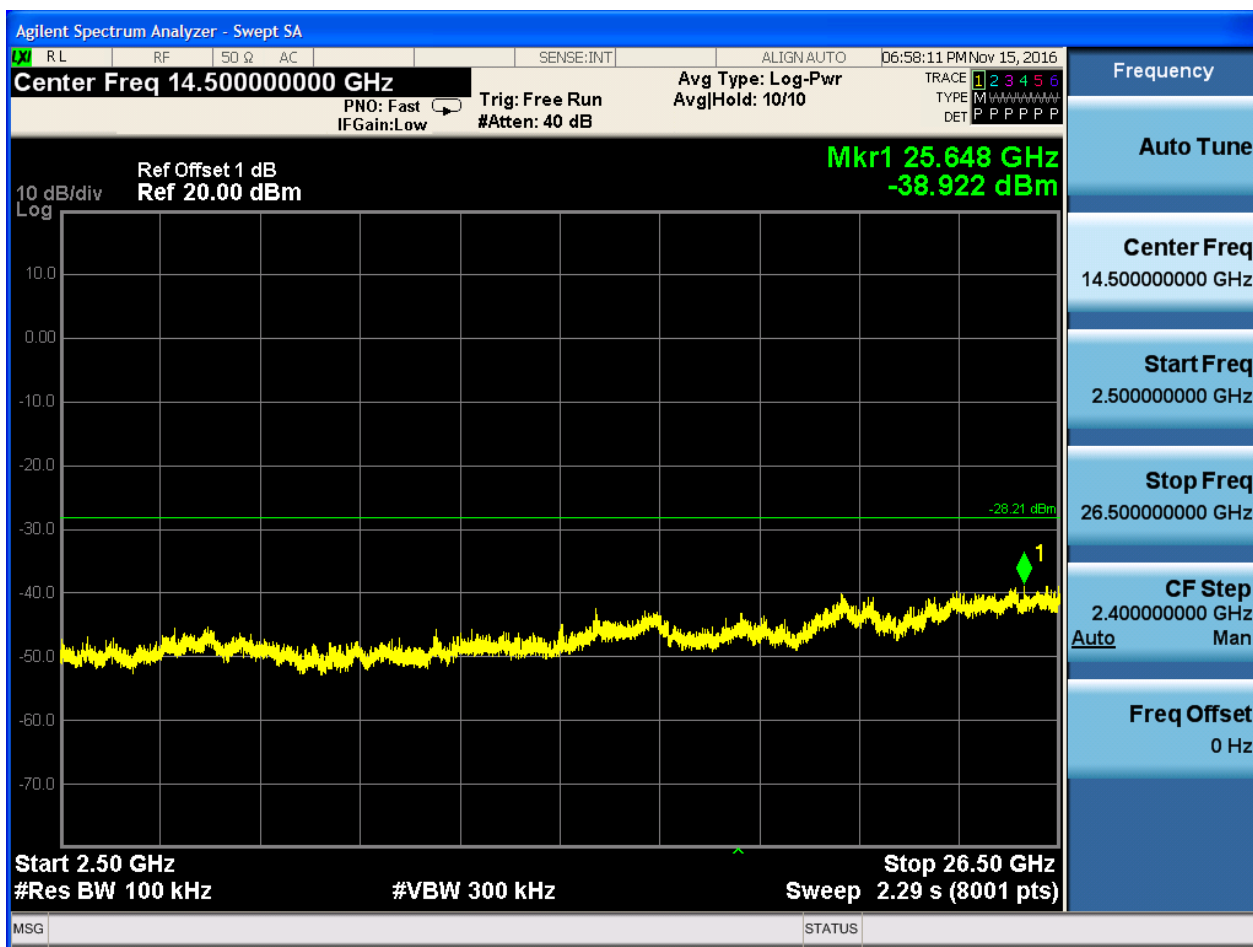








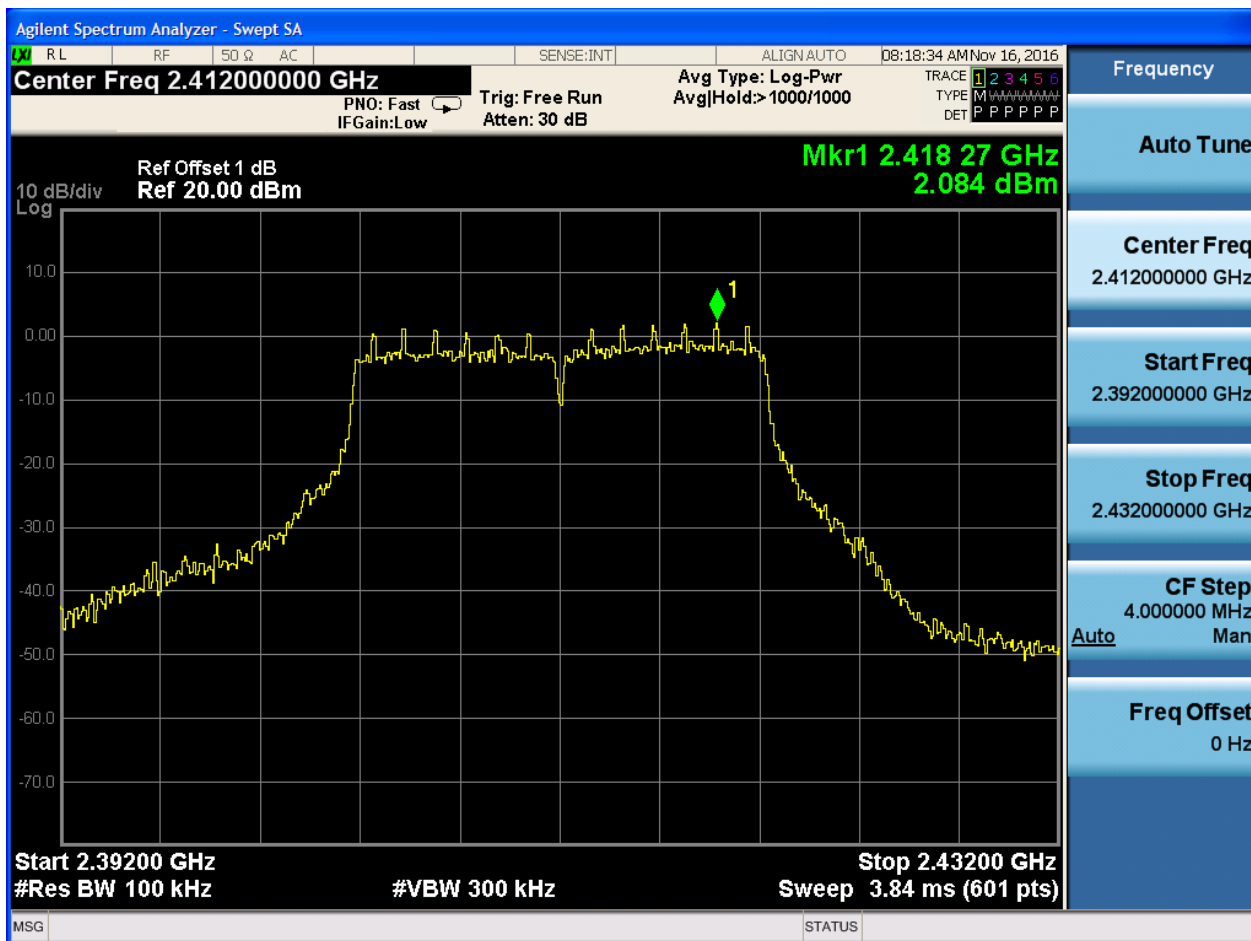






2.8 11G_L@Ant 2

Pref:





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω DC SENSE:INT ALIGN:AUTO D8:18:49 AM Nov 16, 2016

Center Freq 79.500 kHz PNO: Wide Trg: Free Run Avg Type: Log-Pwr TRACE 1 2 3 4 5 6
IF Gain: Low #Atten: 26 dB TYPE M W W W W W W W
DET P P P P P P

Ref Offset 1 dB Mkr1 9.470 kHz
Ref 17.00 dBm -51.981 dBm

10 dB/div Log

Start 9.00 kHz Stop 150.00 kHz
#Res BW 1.0 kHz #VBW 3.0 kHz Sweep 135 ms (601 pts)

MSG STATUS DC Coupled

Frequency

Auto Tune

Center Freq 79.500 kHz

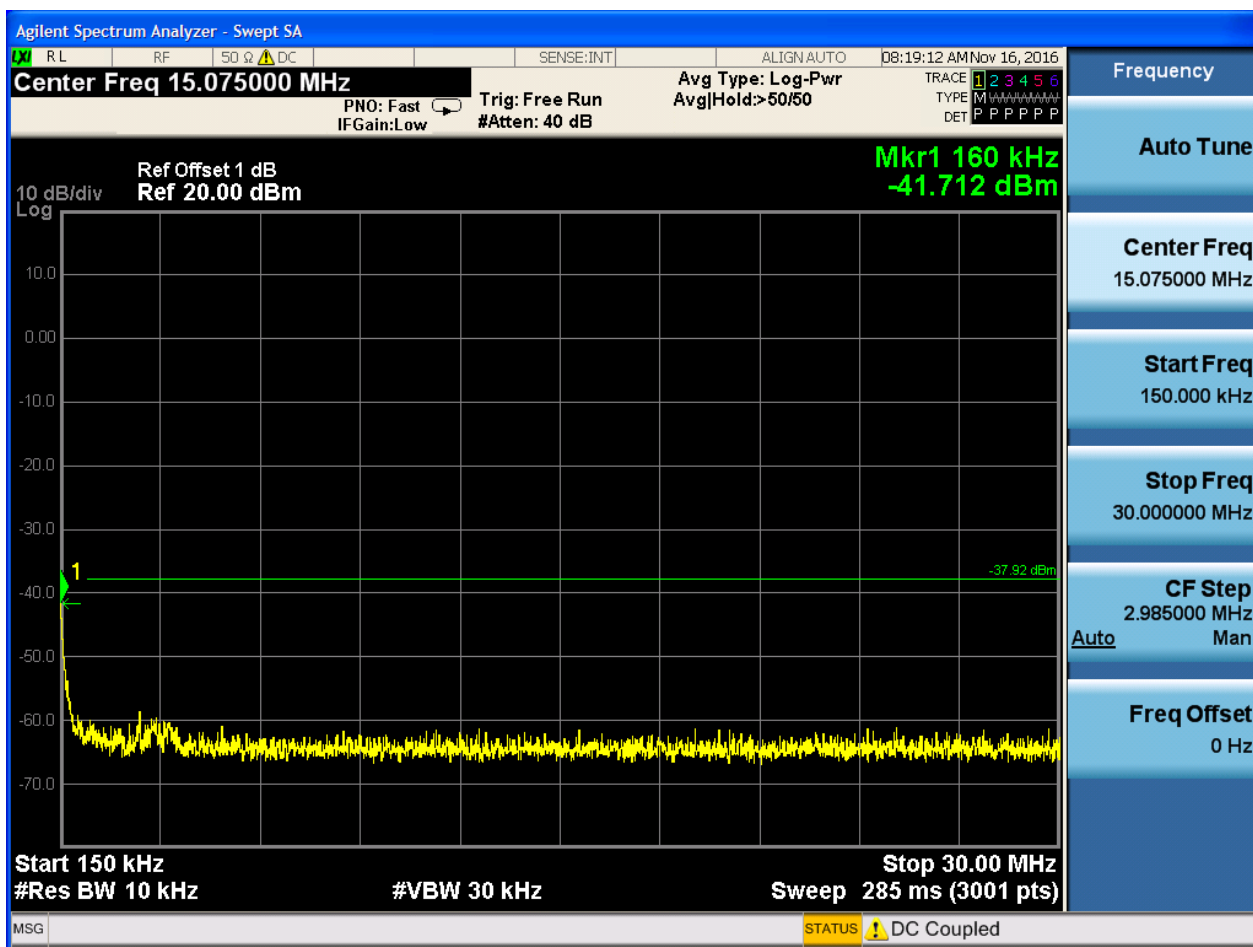
Start Freq 9.000 kHz

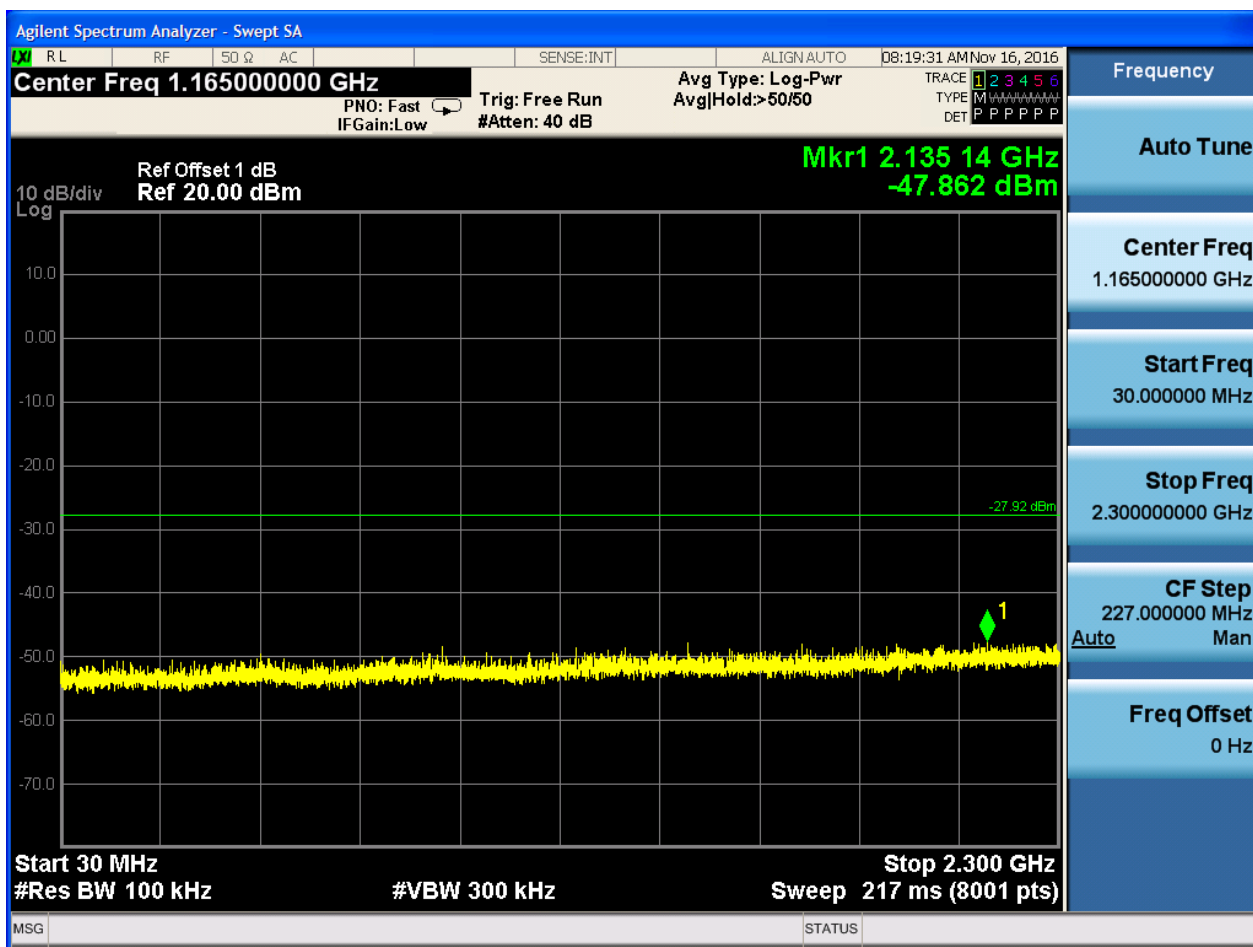
Stop Freq 150.000 kHz

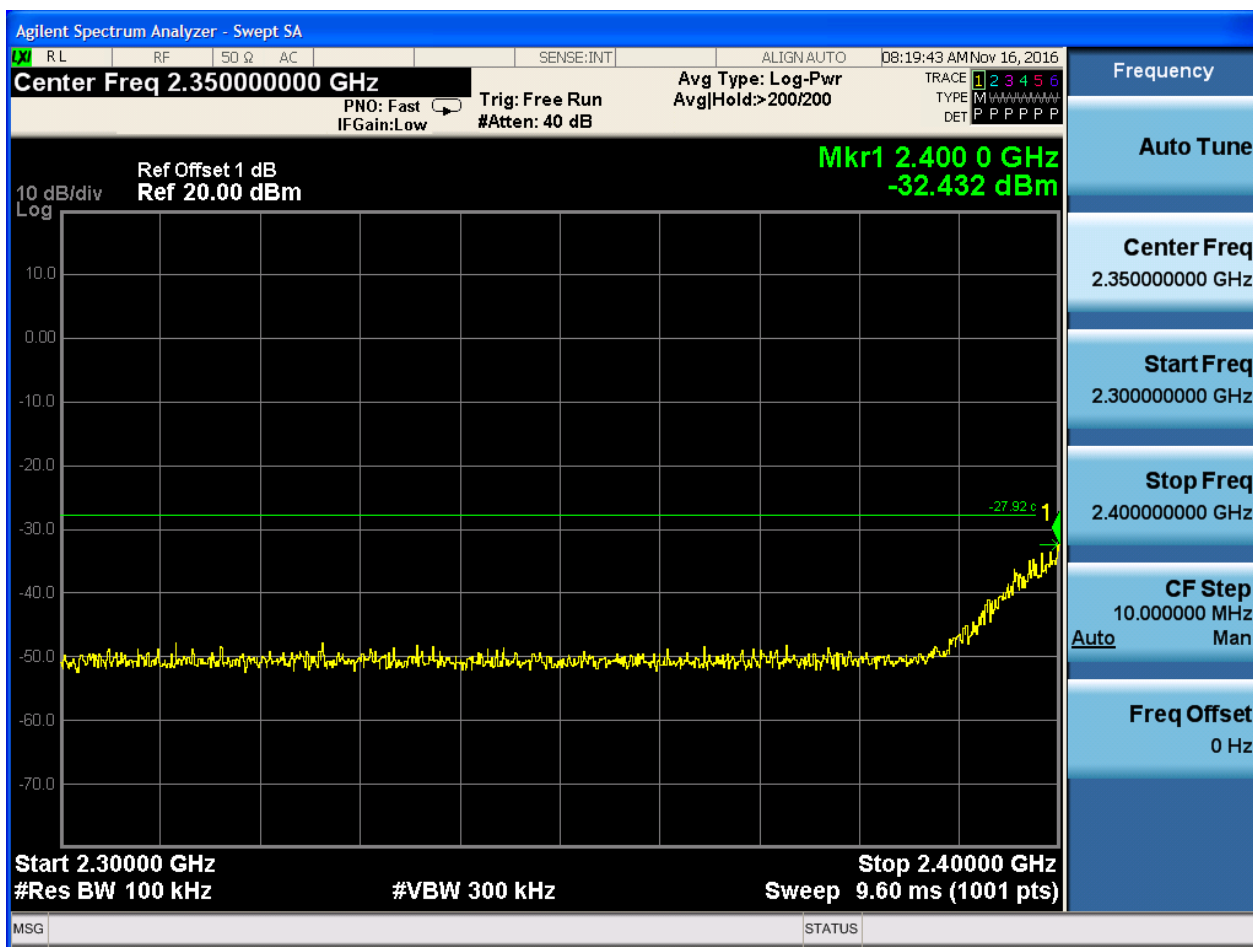
CF Step 14.100 kHz Man

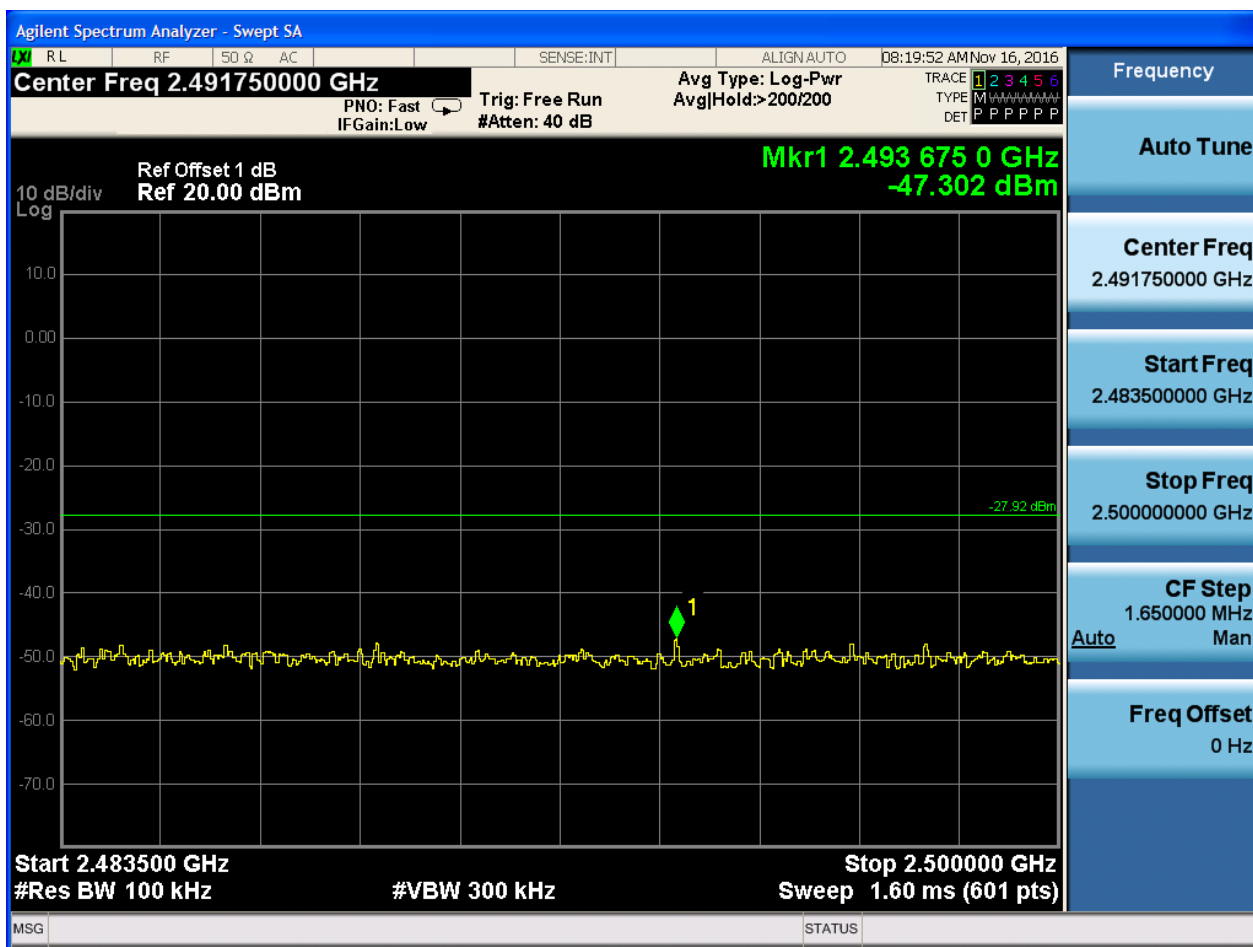
Auto

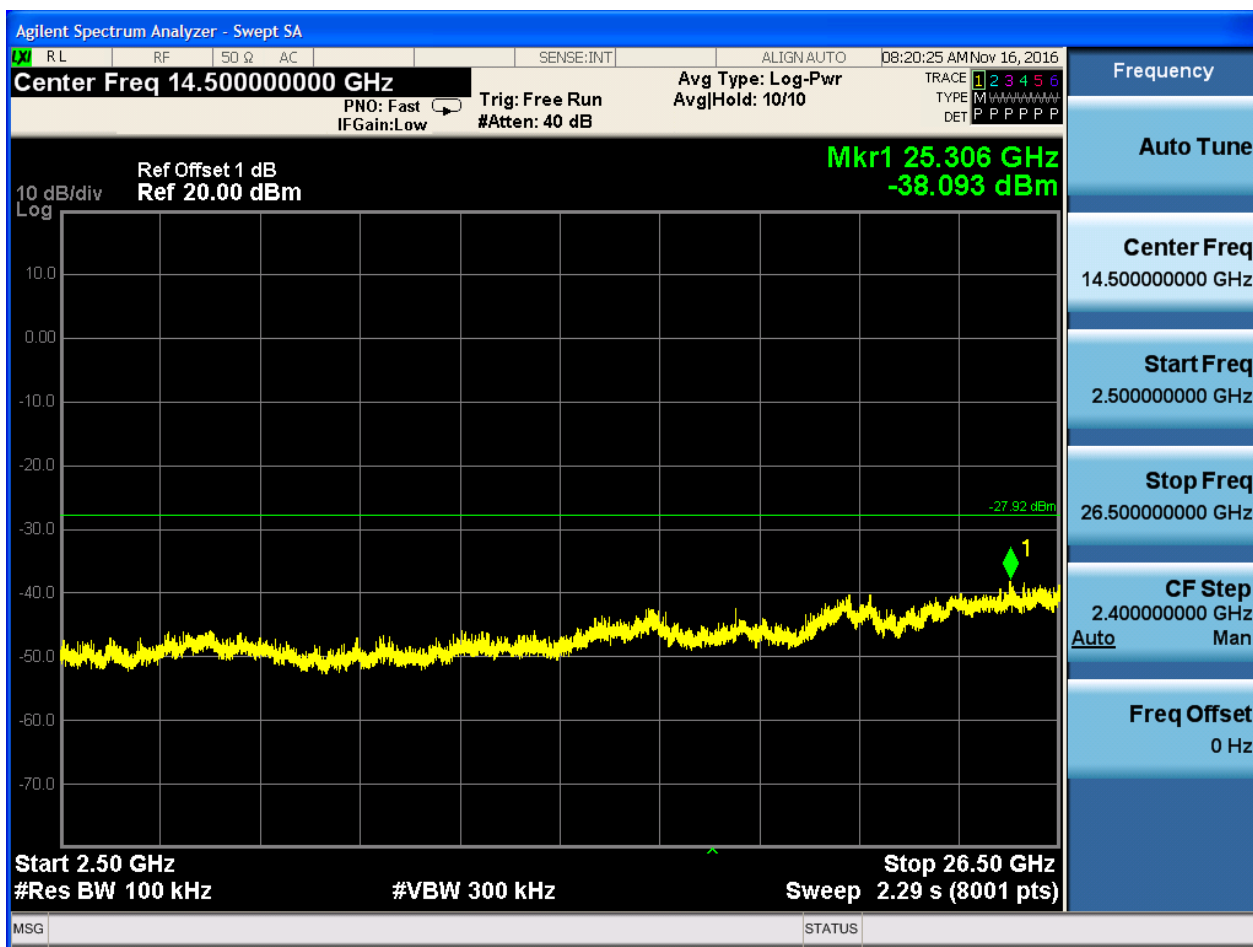
Freq Offset 0 Hz





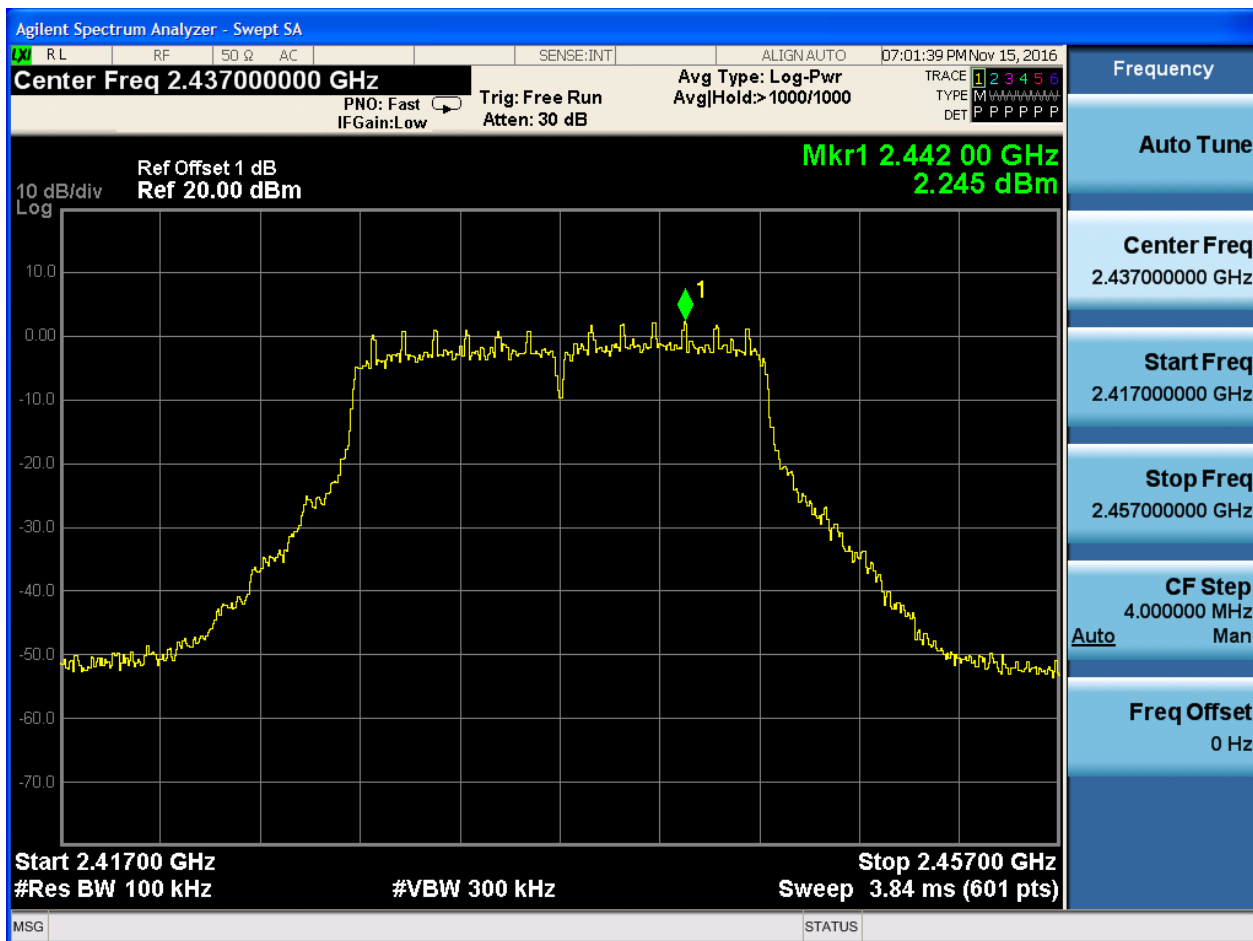






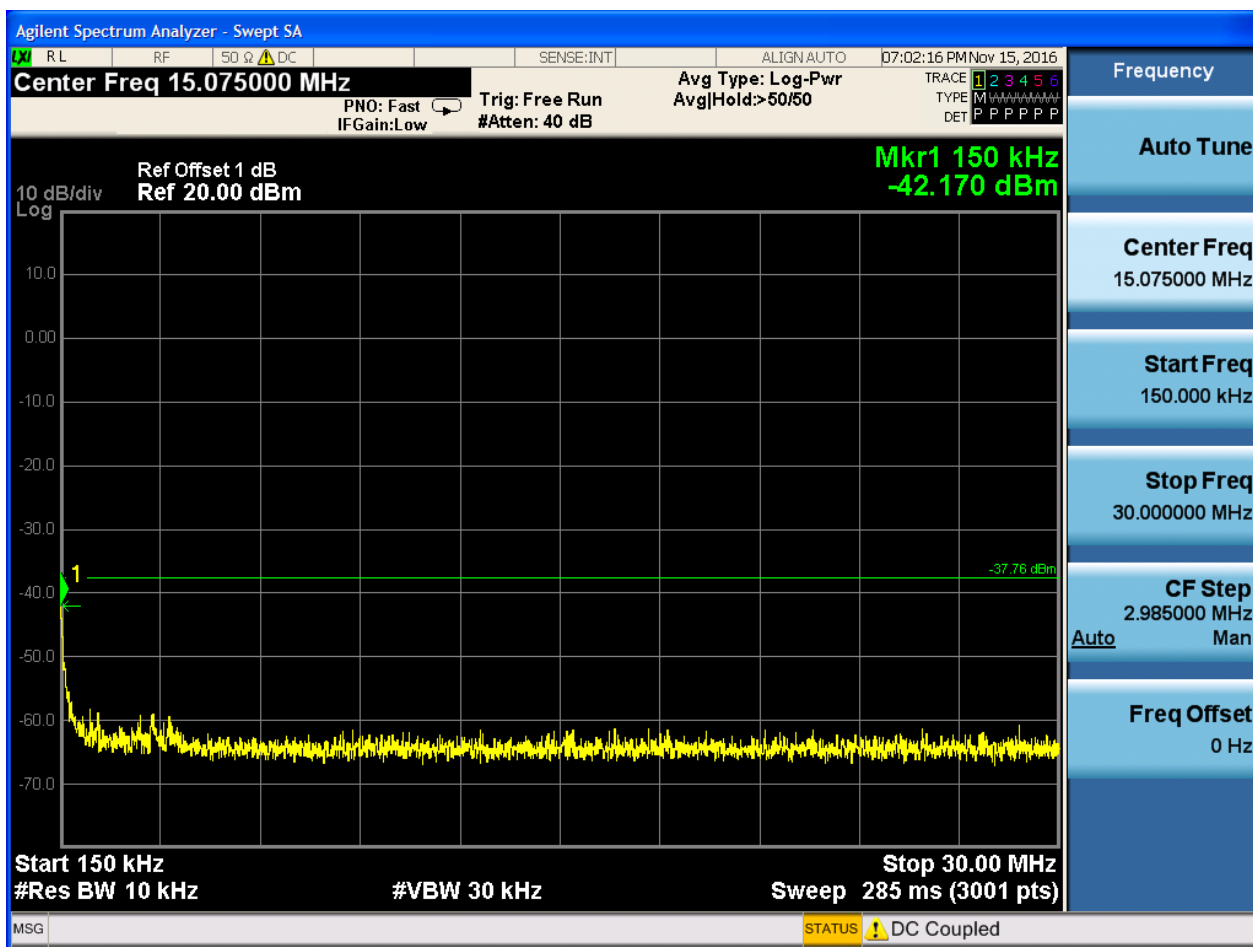


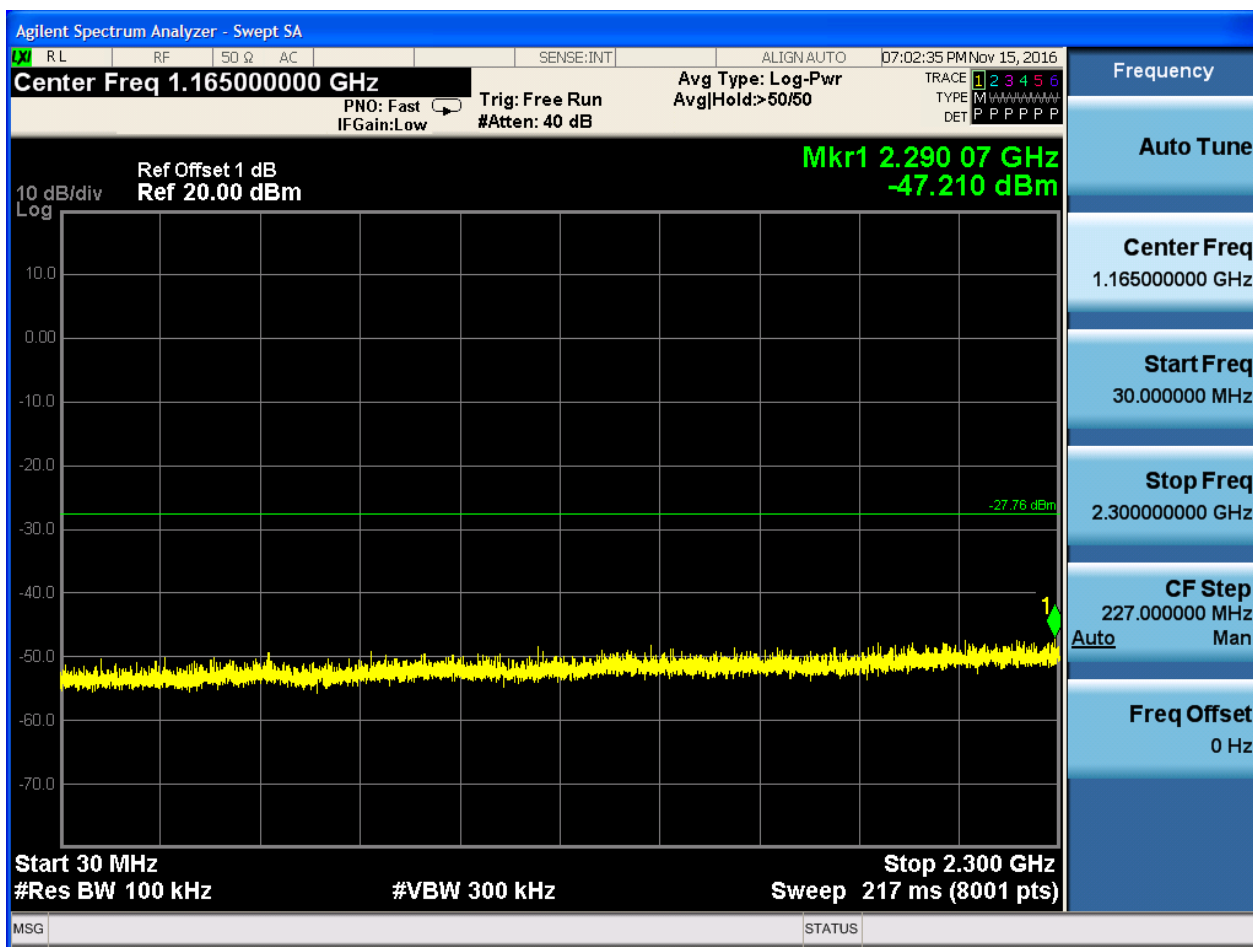
Pref:

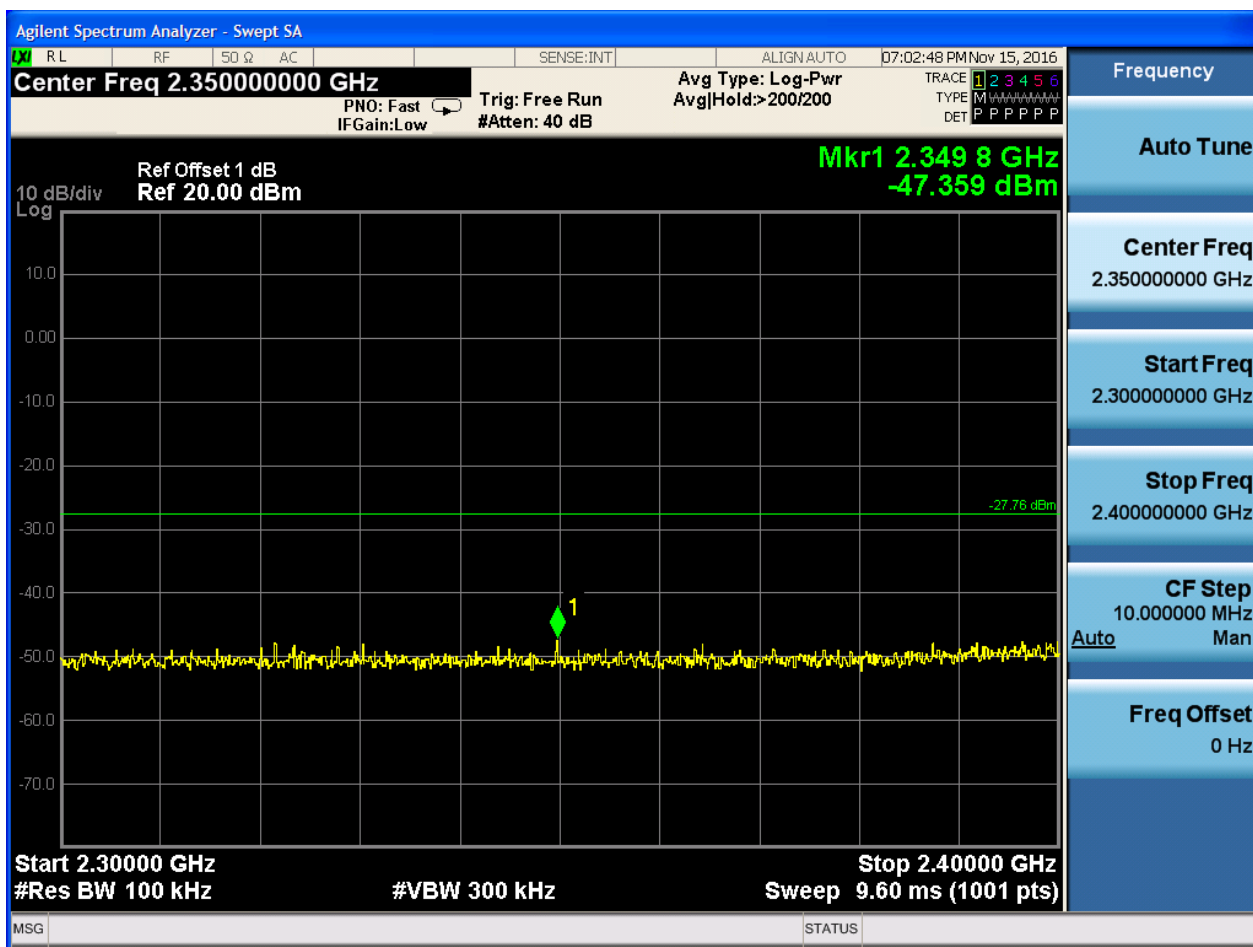


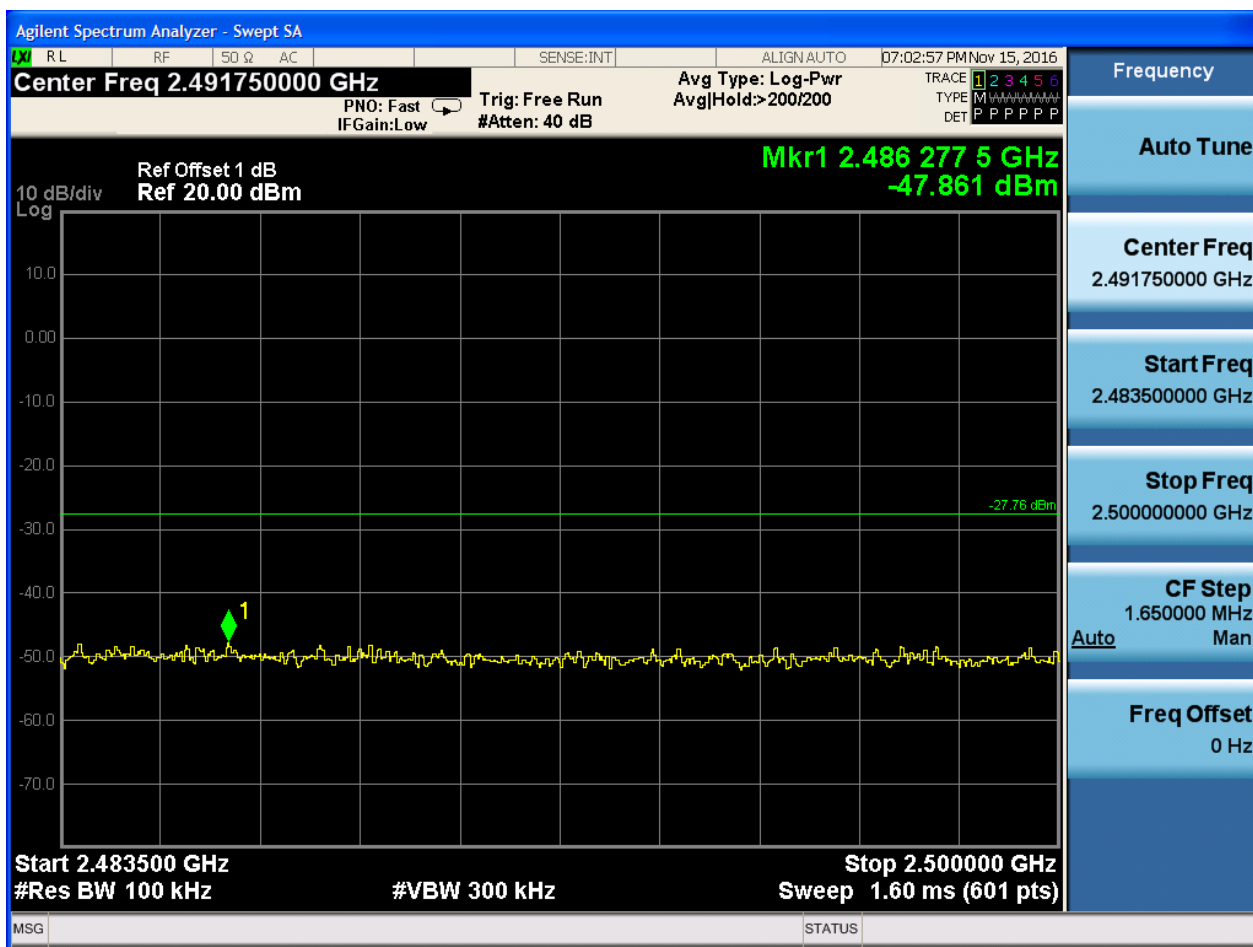
Puw:

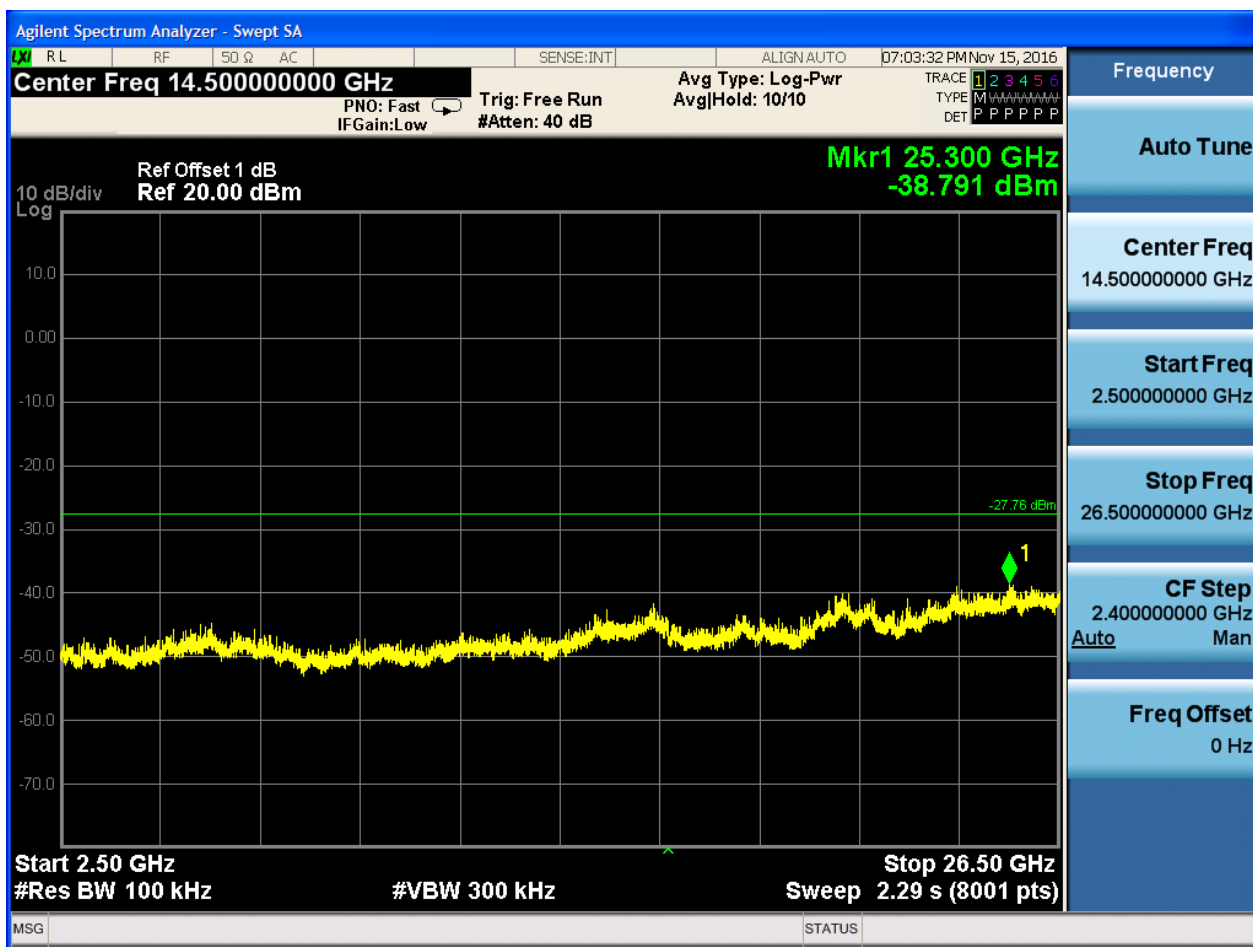








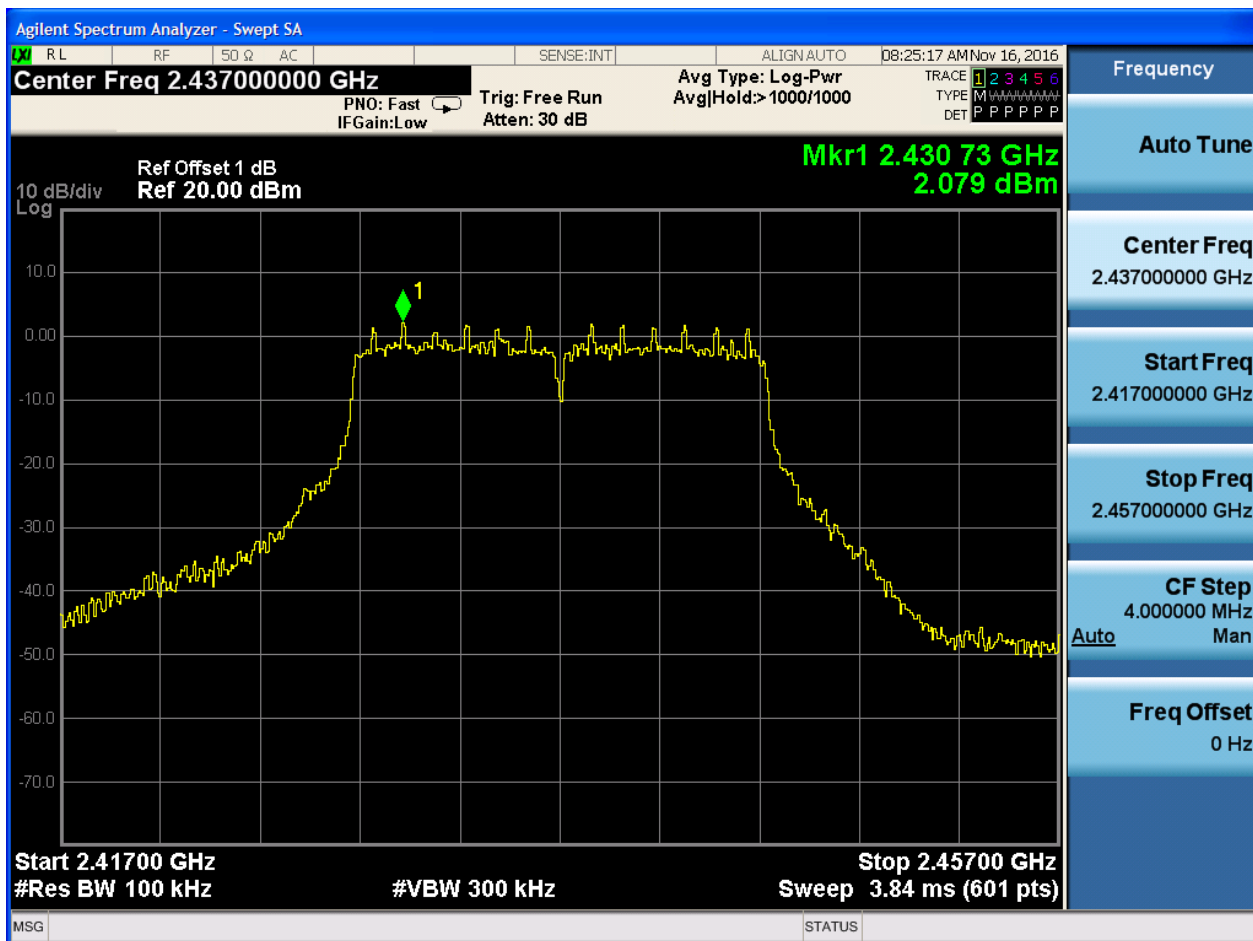






2.10 11G_M@Ant 2

Pref:





Agilent Spectrum Analyzer - Swept SA

Center Freq 79.500 kHz

Ref Offset 1 dB
Ref 17.00 dBm

10 dB/div
Log

Mkr1 9.235 kHz
-53.805 dBm

Start 9.00 kHz
#Res BW 1.0 kHz

Stop 150.00 kHz
Sweep 135 ms (601 pts)

#VBW 3.0 kHz

Trig: Free Run
#Atten: 26 dB

Avg Type: Log-Pwr
Avg|Hold:>50/50

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

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 ! DC Coupled