



2.30 11N20m_L_2417@Ant 2





2.31 11N20m_M_2437@Ant 1





2.32 11N20m_M_2437@Ant 2





2.33 11N20m_H_2457@Ant 1





2.34 11N20m_H_2457@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .14 dB added.

Center Freq 2.462000000 GHz

Ref Offset 1.14 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 2.460 737 GHz
-17.772 dBm

Start 2.44200 GHz
#Res BW 10 kHz

#VBW 100 kHz*

Stop 2.48200 GHz
Sweep 477 ms (8190 pts)

Frequency

Auto Tune

Center Freq
2.462000000 GHz

Start Freq
2.442000000 GHz

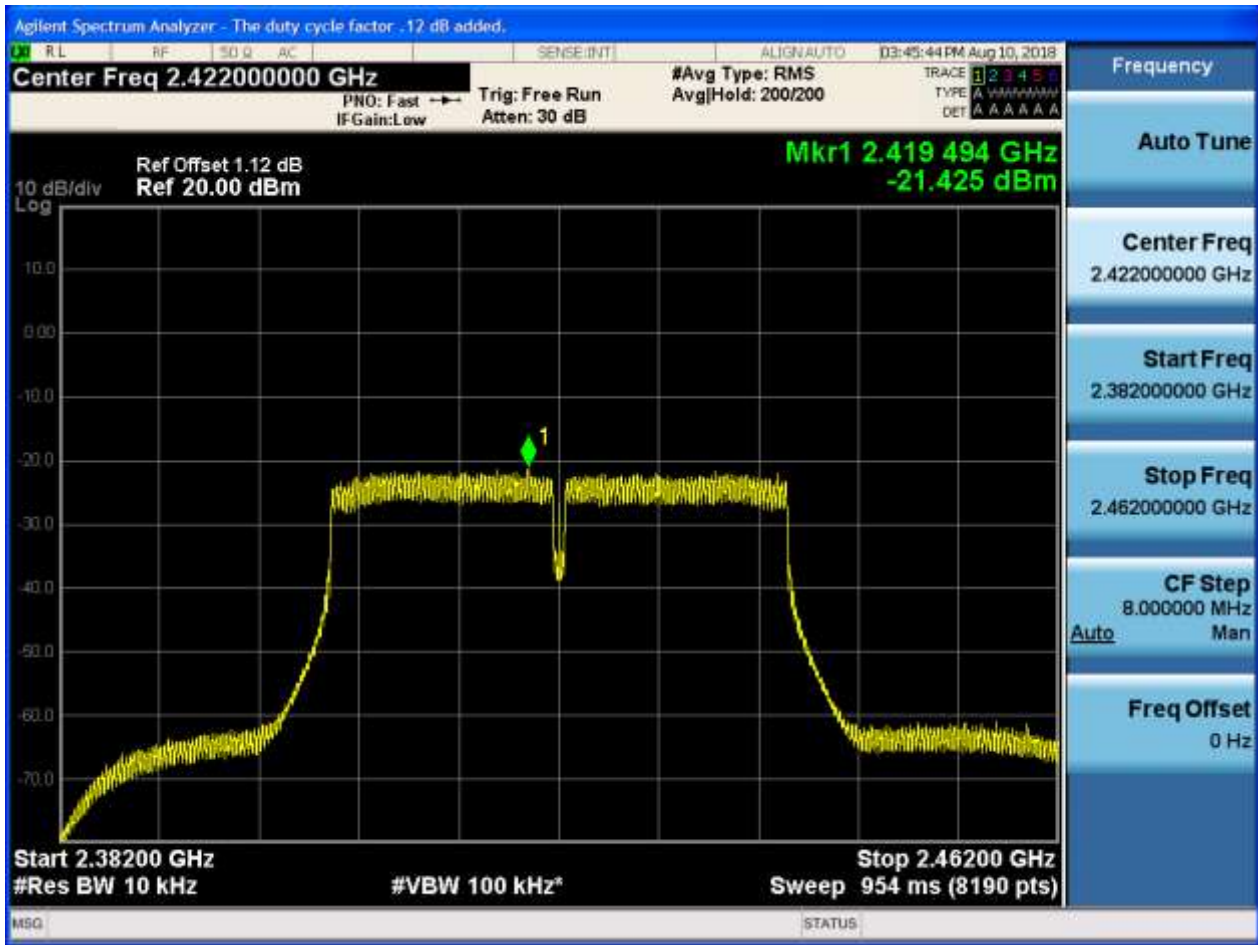
Stop Freq
2.482000000 GHz

CF Step
4.000000 MHz
Man

Freq Offset
0 Hz

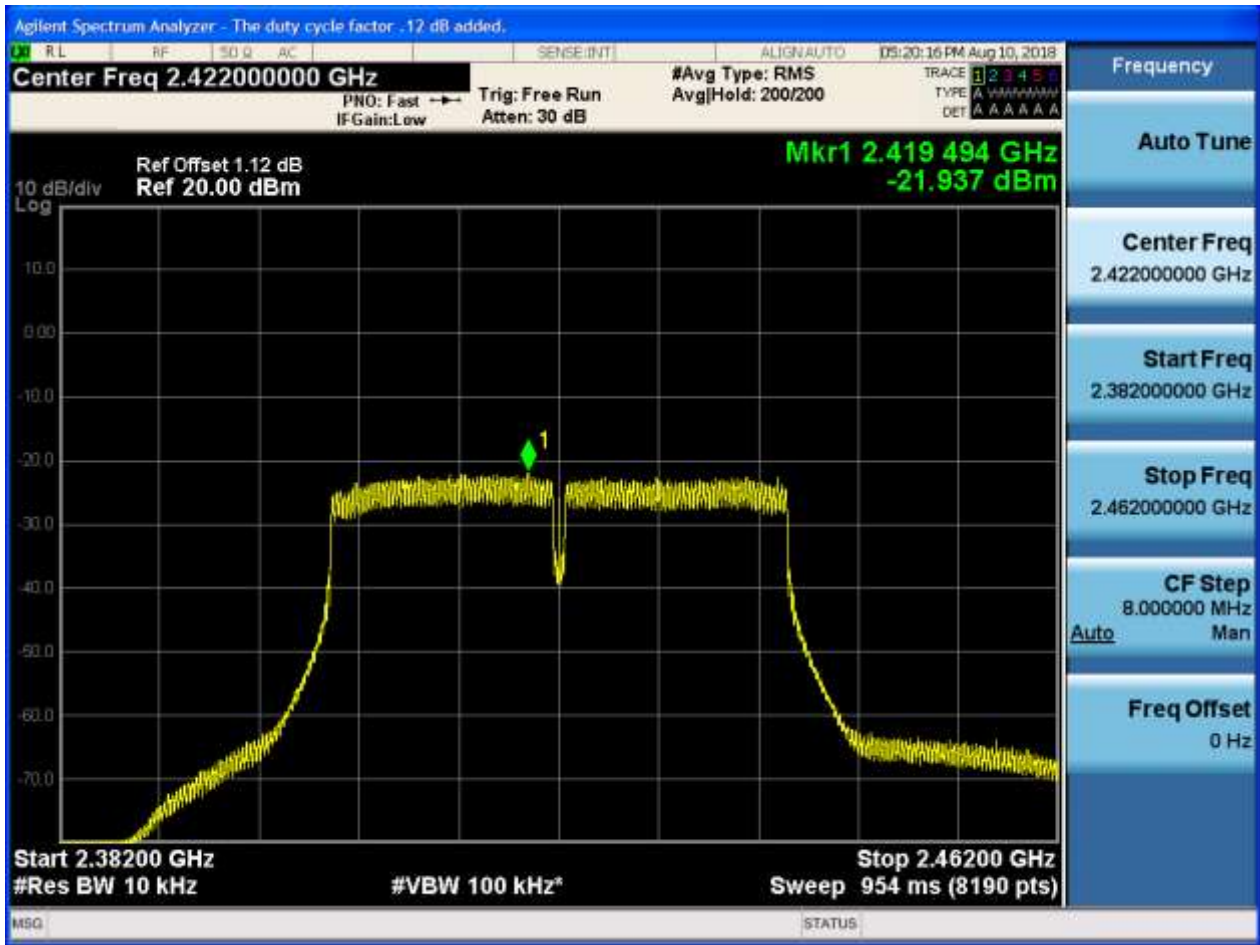


2.37 11N40_L_2422@Ant 1



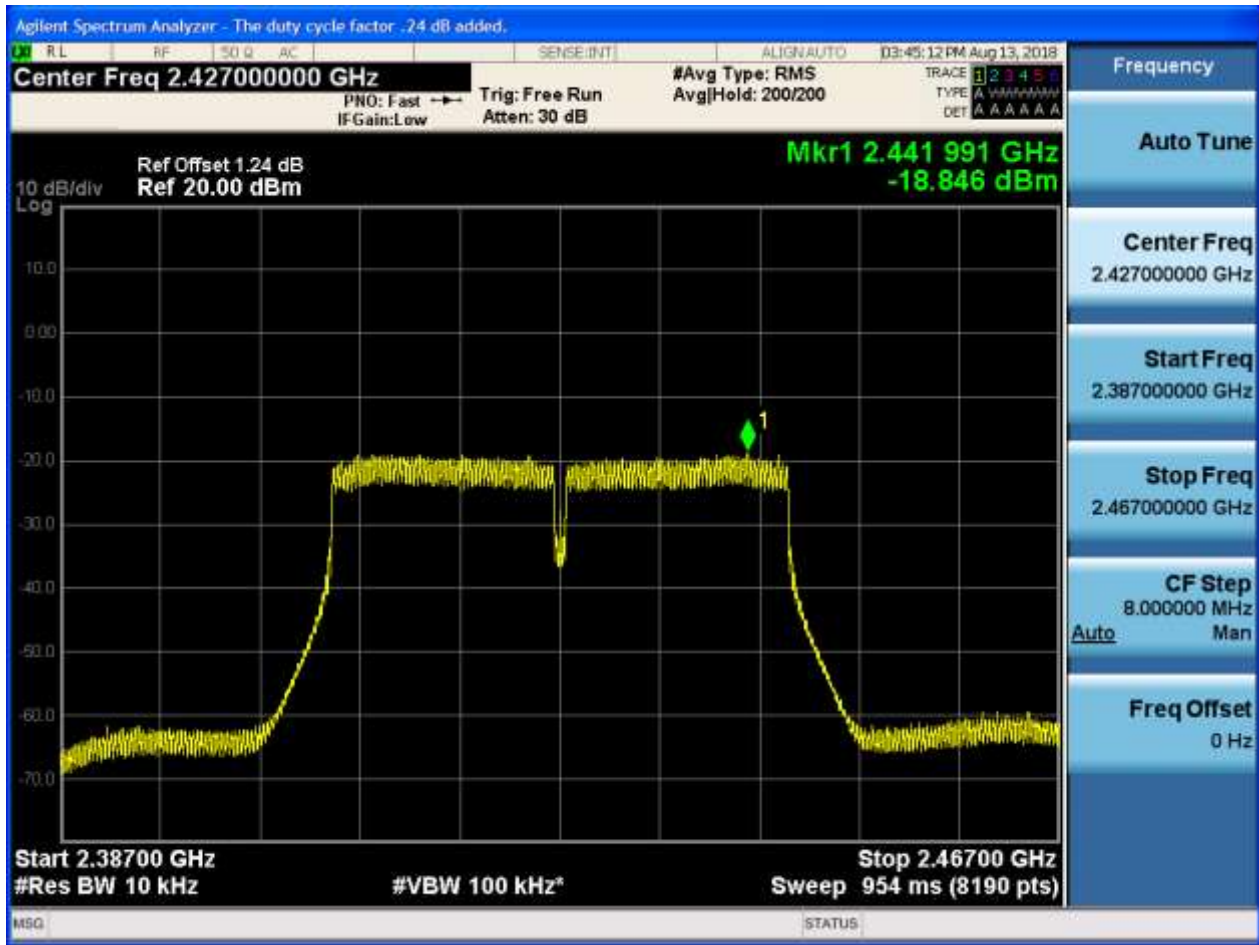


2.38 11N40_ L _2422@Ant 2



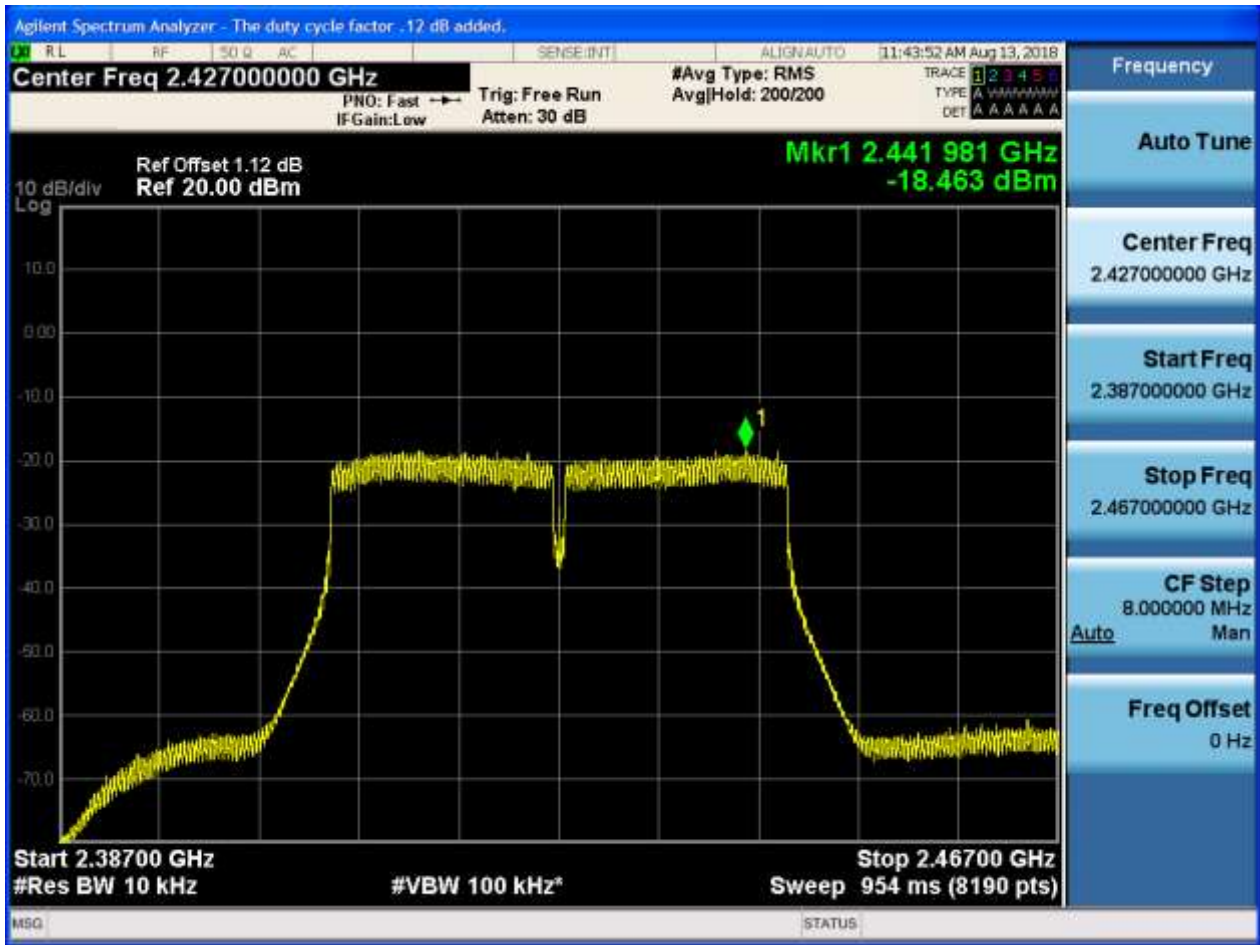


2.39 11N40_L_2427@Ant 1



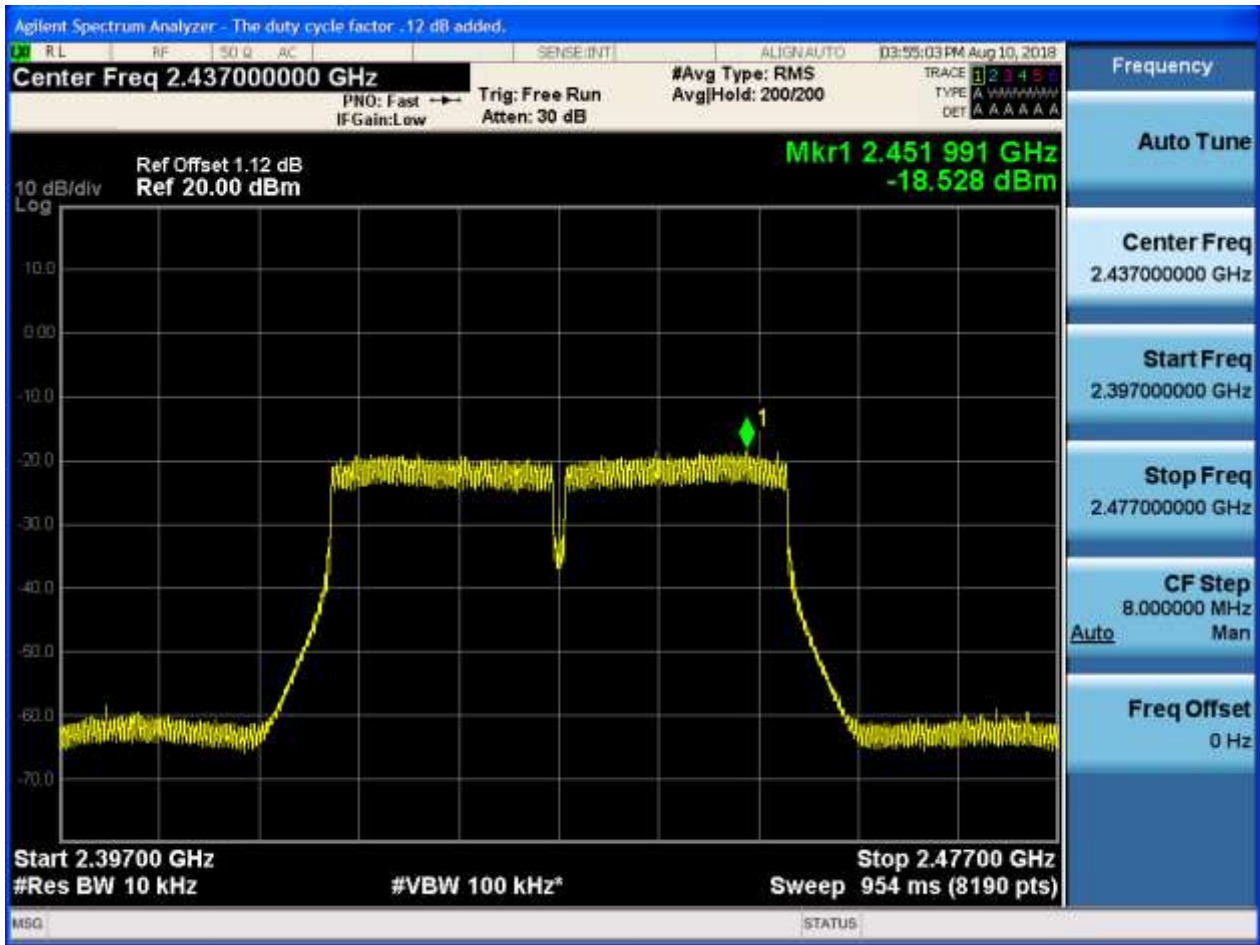


2.40 11N40_L_2427@Ant 2



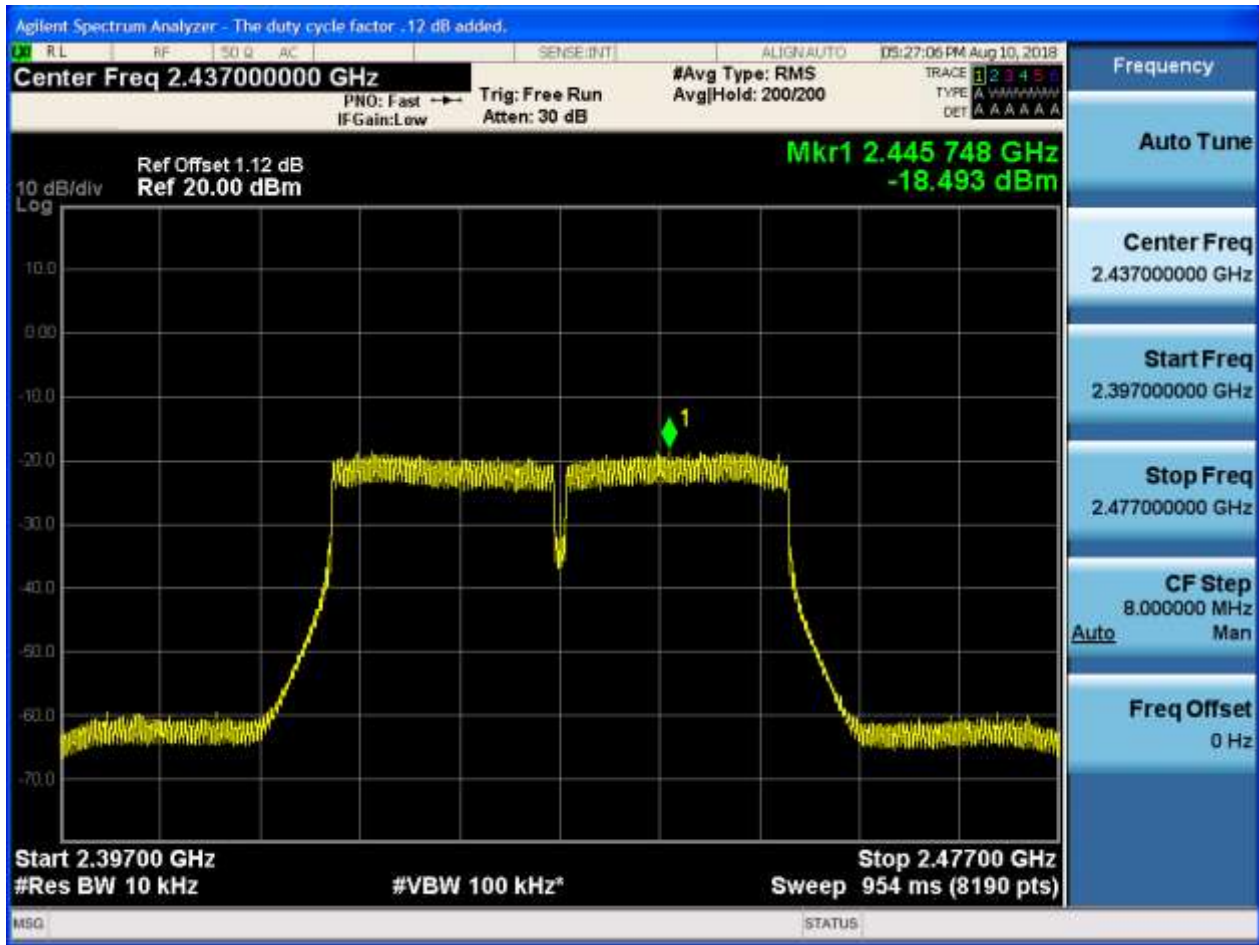


2.41 11N40_M_2437@Ant 1



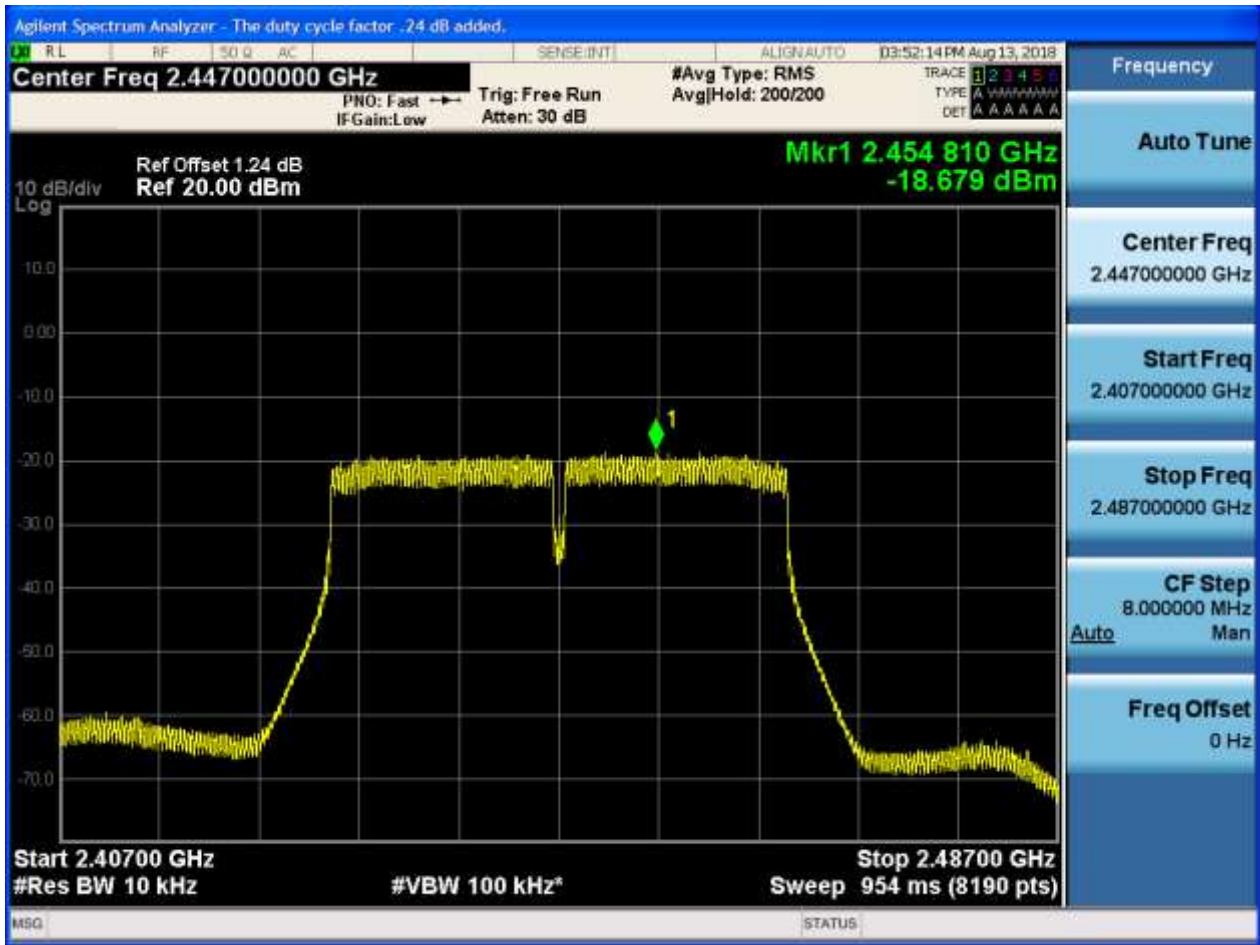


2.42 11N40_M_2437@Ant 2



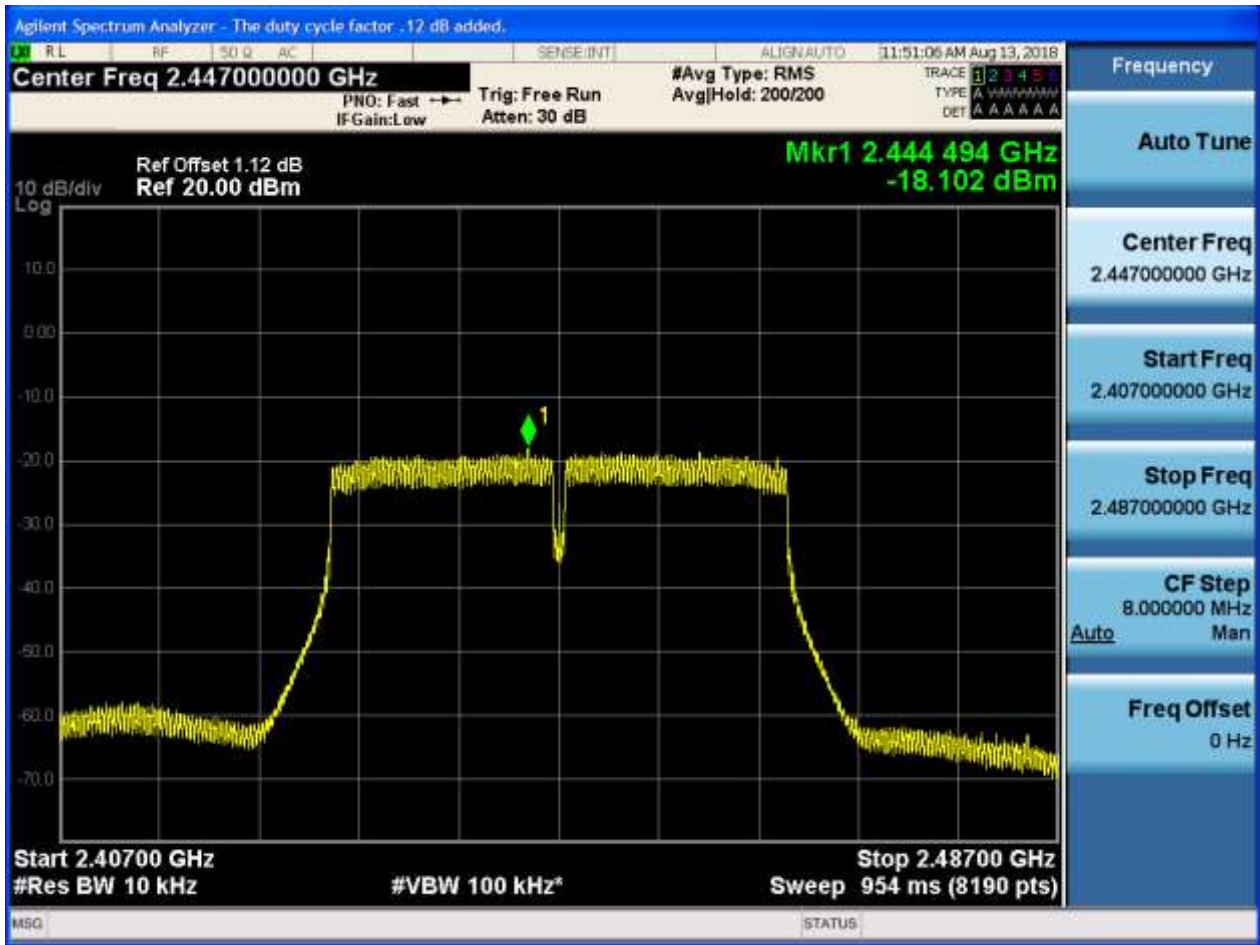


2.43 11N40_H_2447@Ant 1



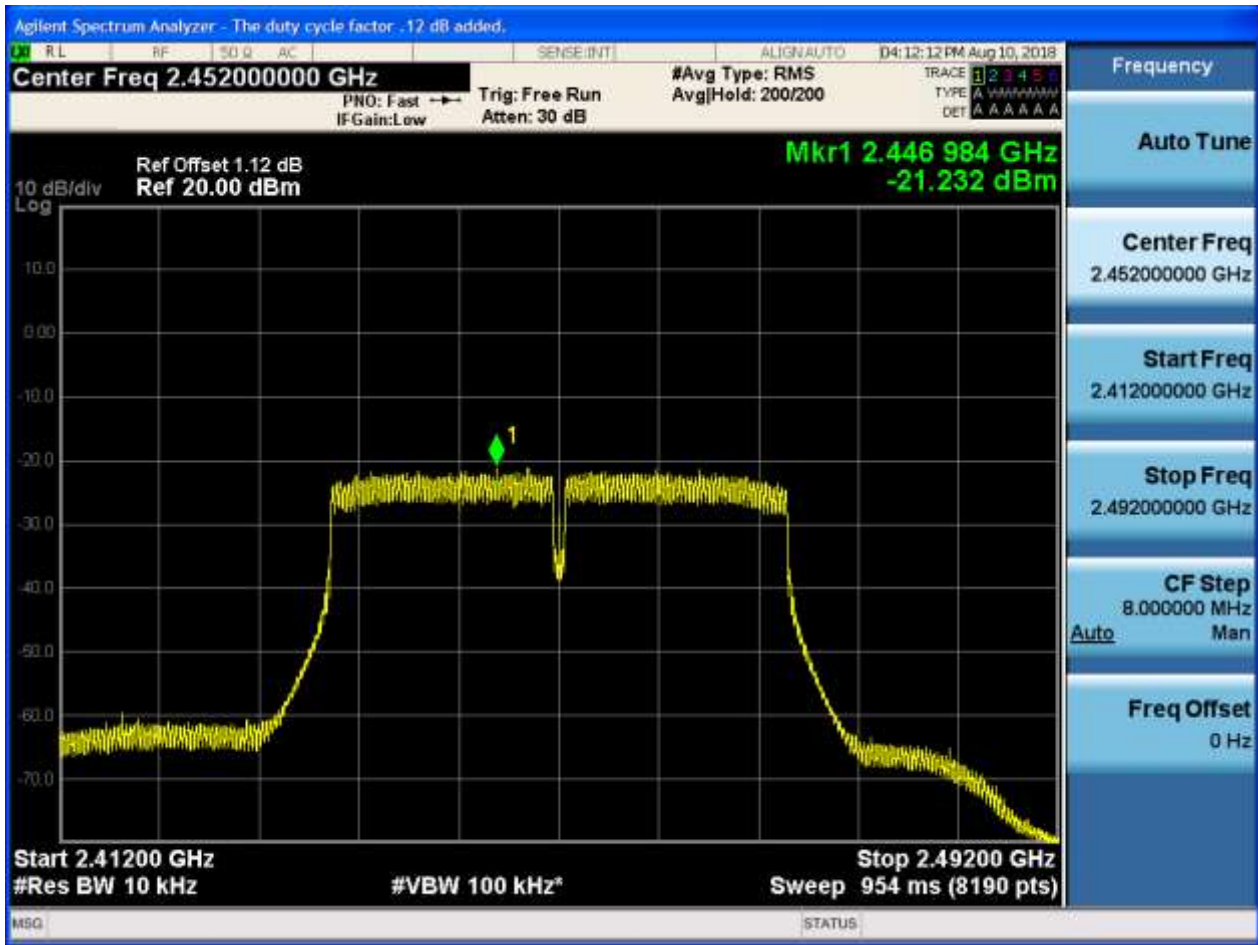


2.44 11N40_H_2447@Ant 2



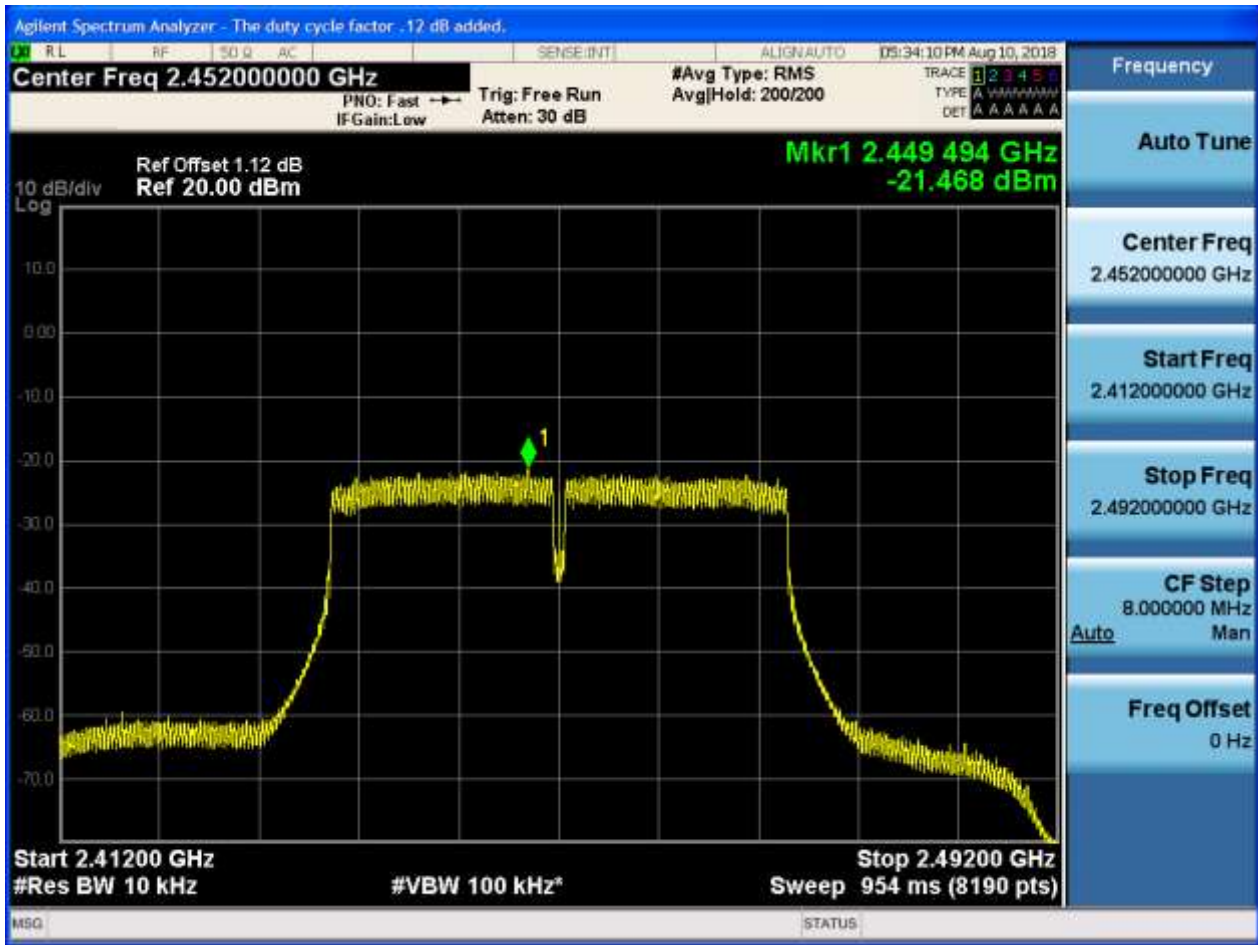


2.45 11N40_H_2452@Ant 1



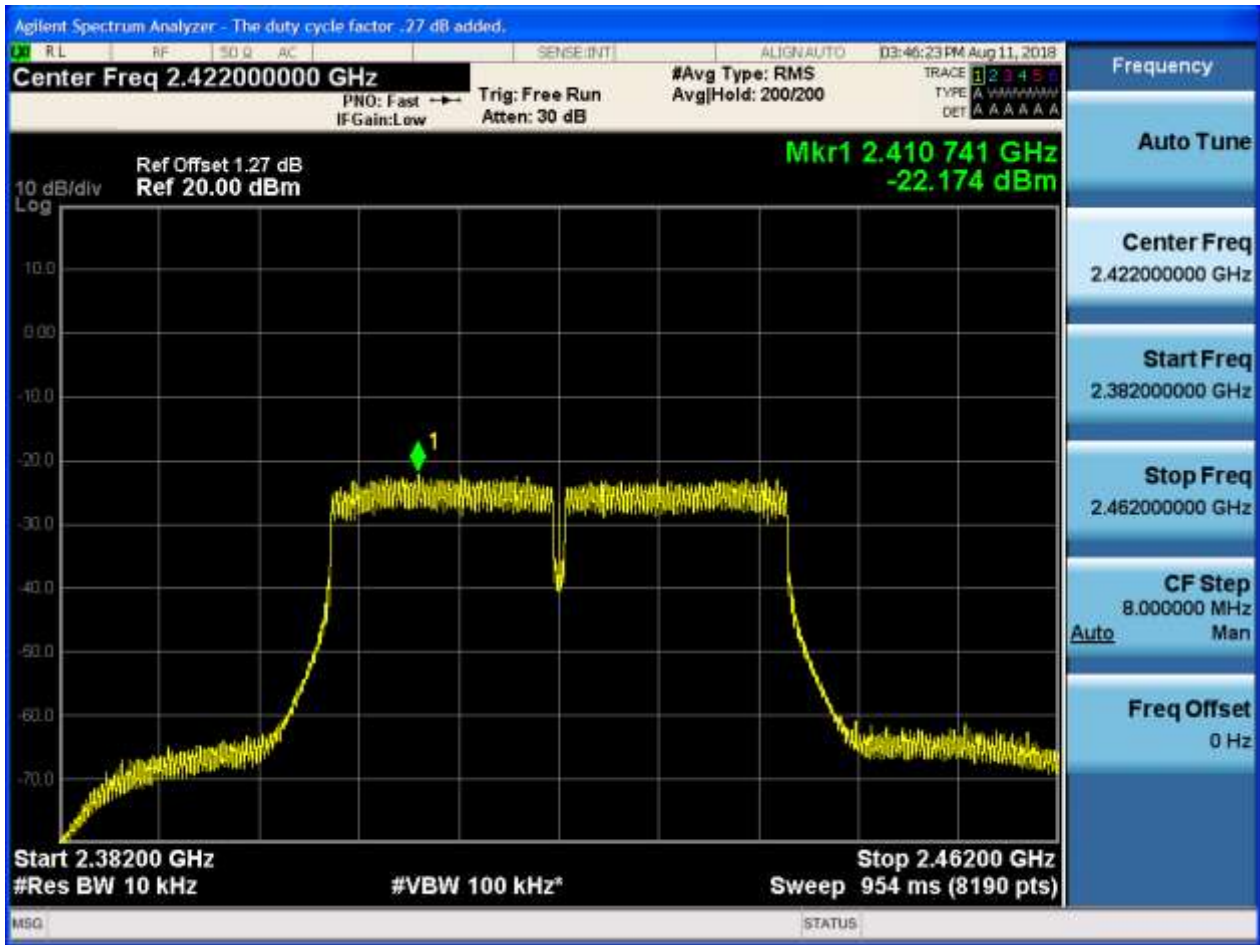


2.46 11N40_H_2452@Ant 2



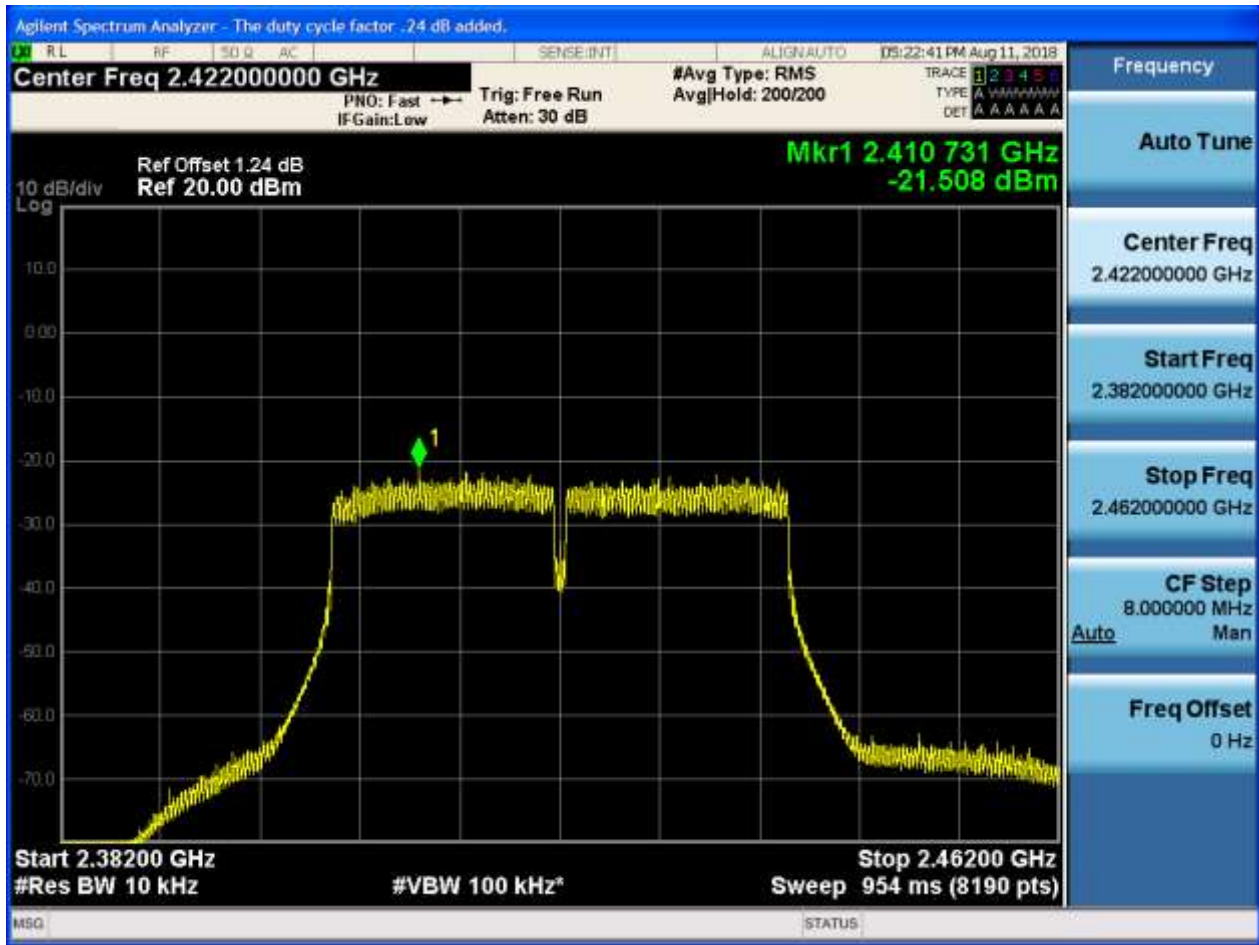


2.47 11N40m_L_2422@Ant 1



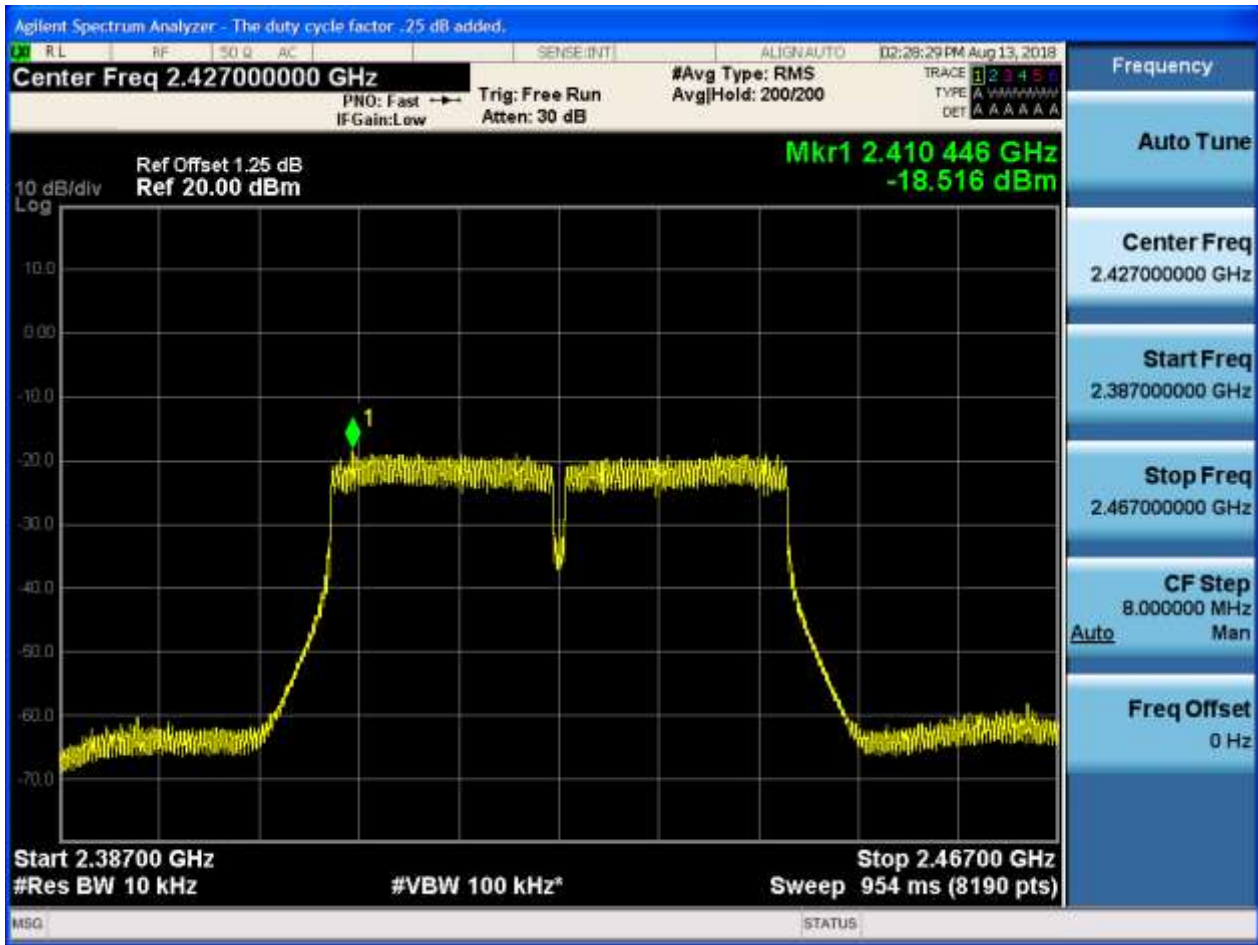


2.48 11N40m_L_2422@Ant 2



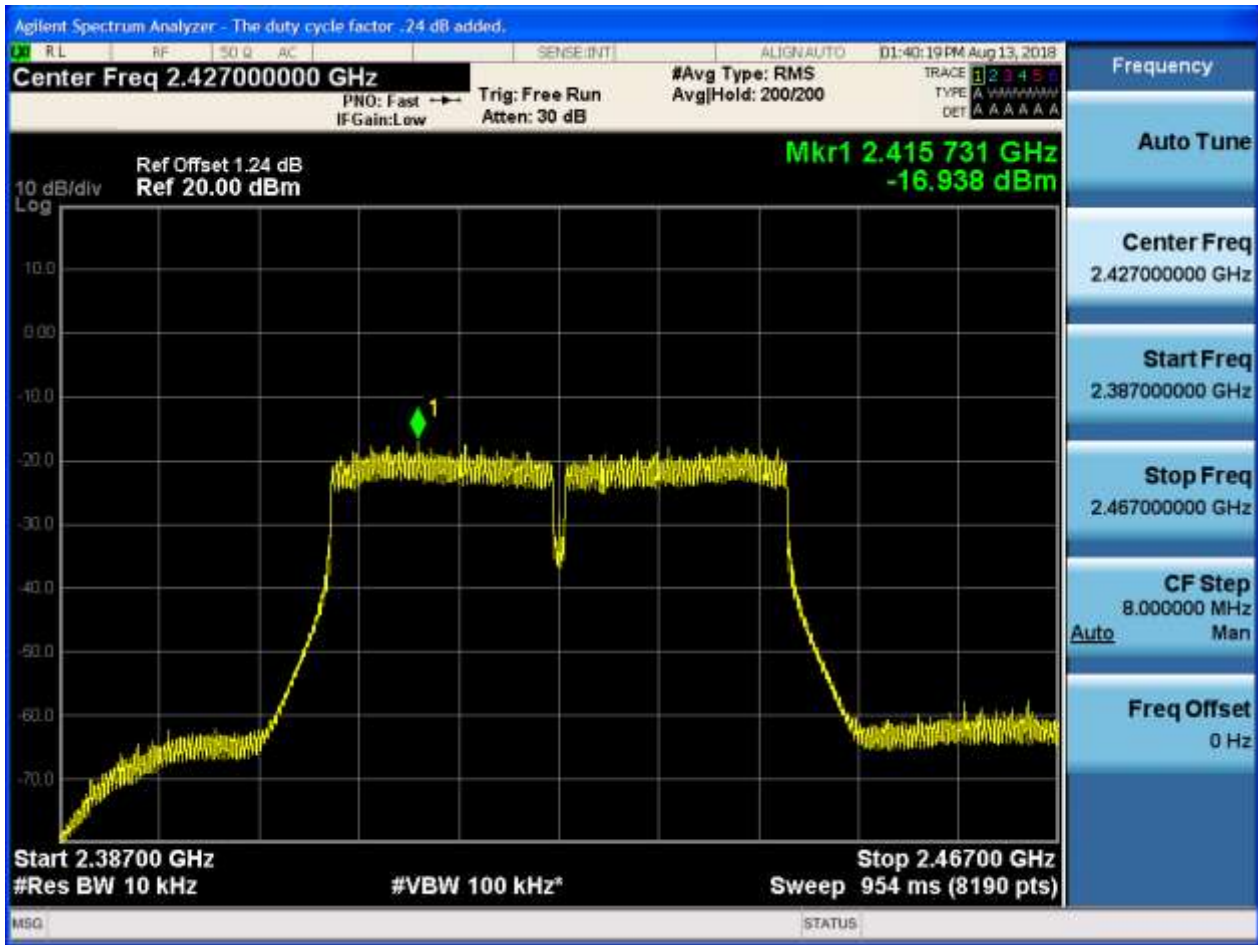


2.49 11N40m_L_2427@Ant 1





2.50 11N40m_L_2427@Ant 2



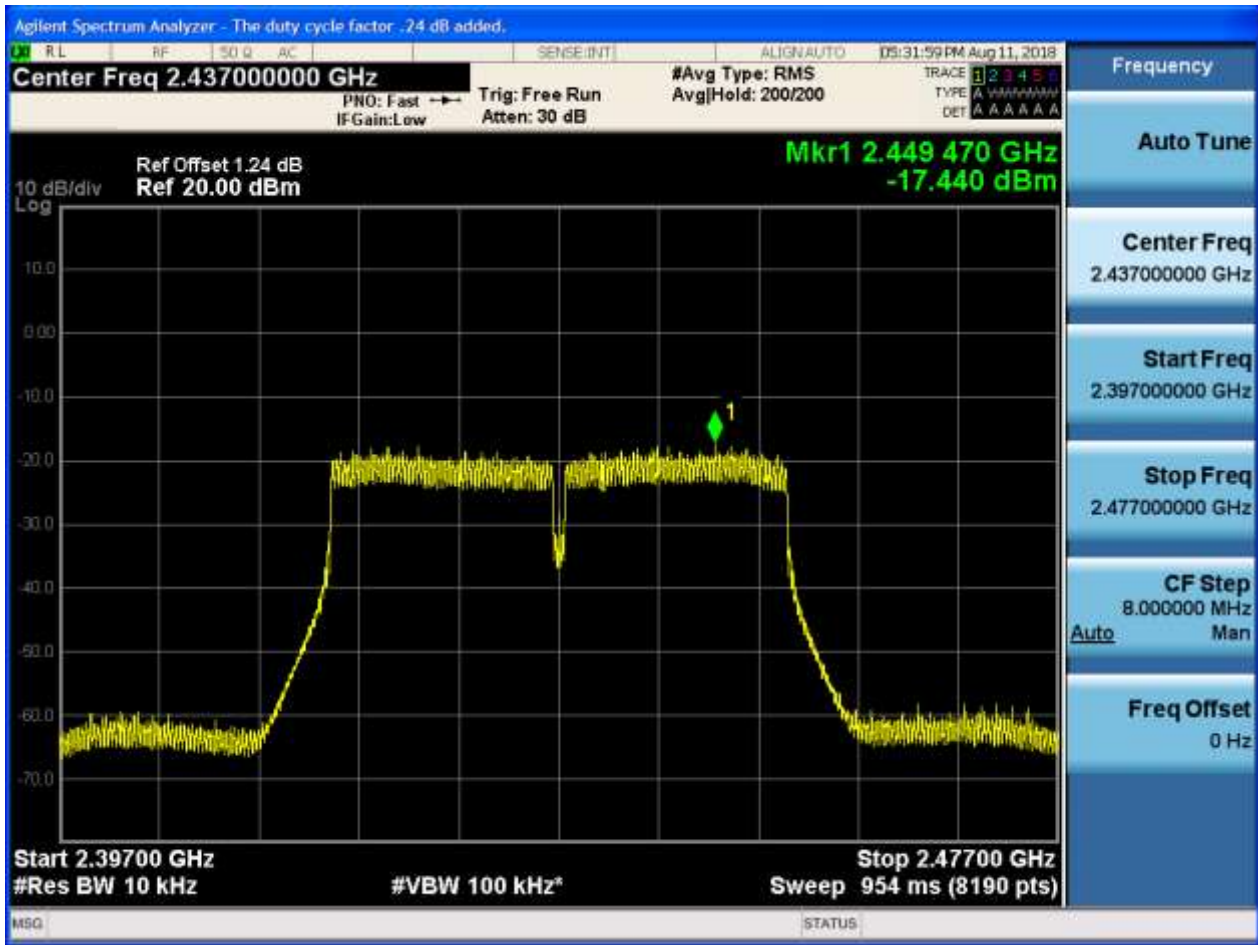


2.51 11N40m_M_2437@Ant 1



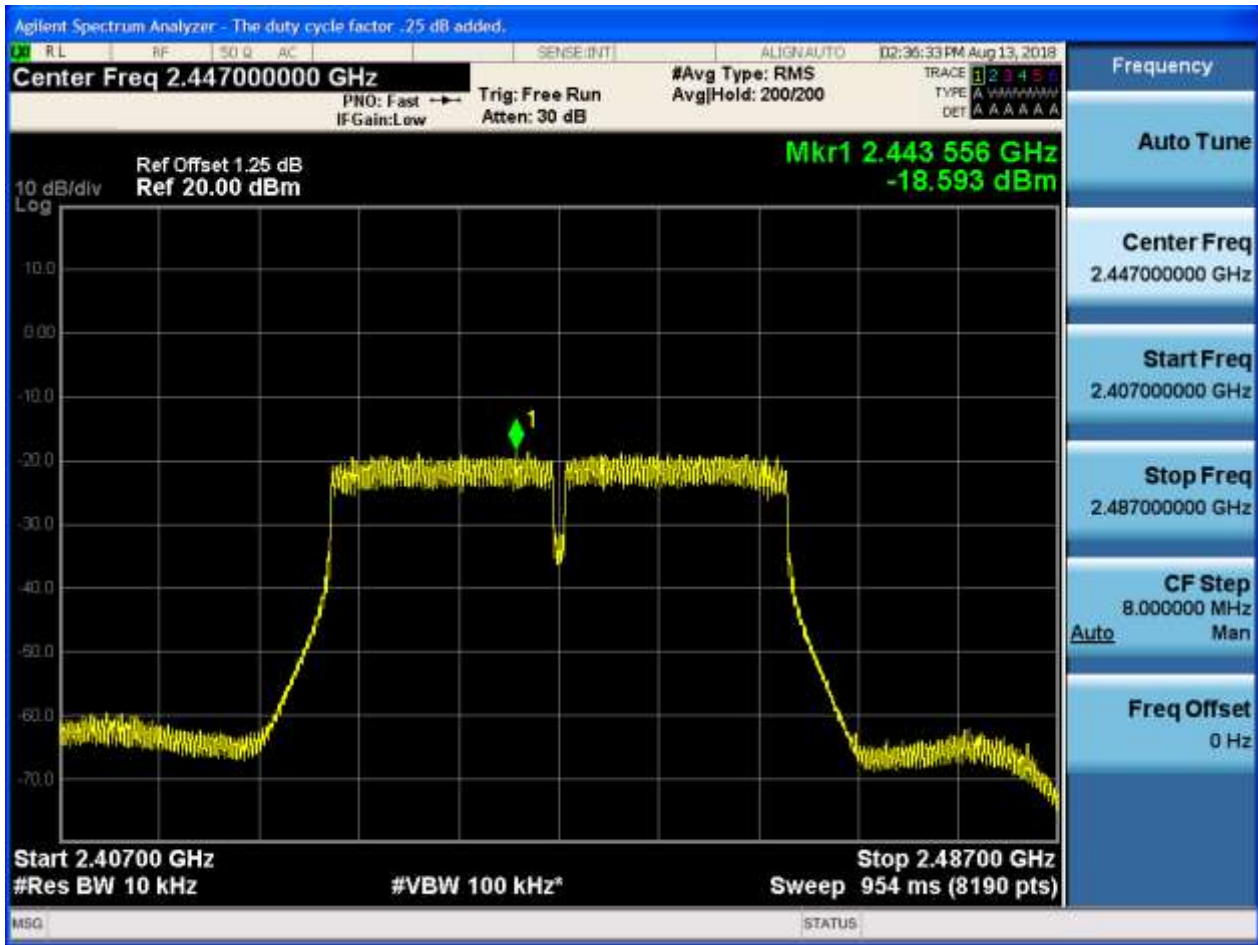


2.52 11N40m_M_2437@Ant 2



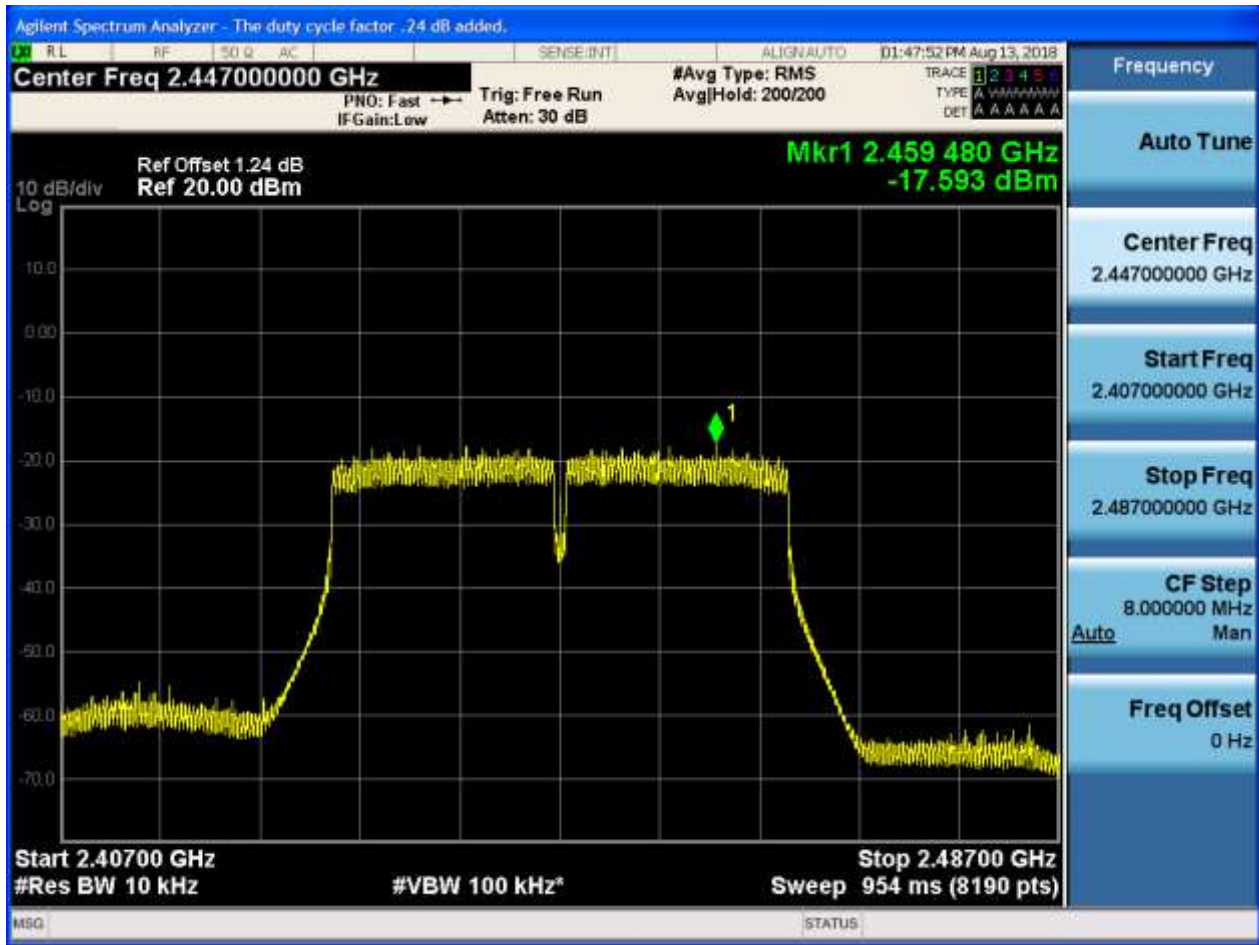


2.53 11N40m_H_2447@Ant 1



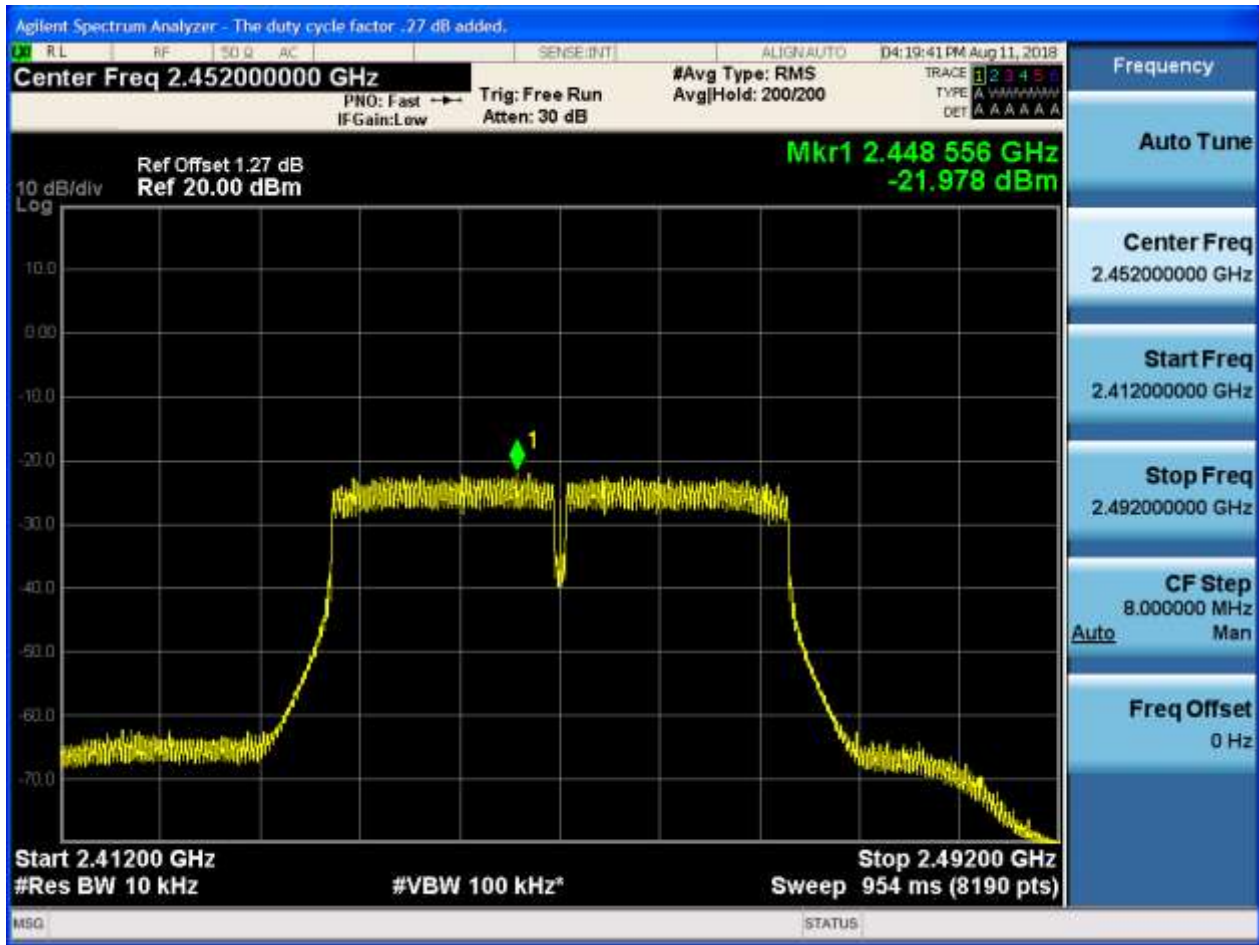


2.54 11N40m_H_2447@Ant 2



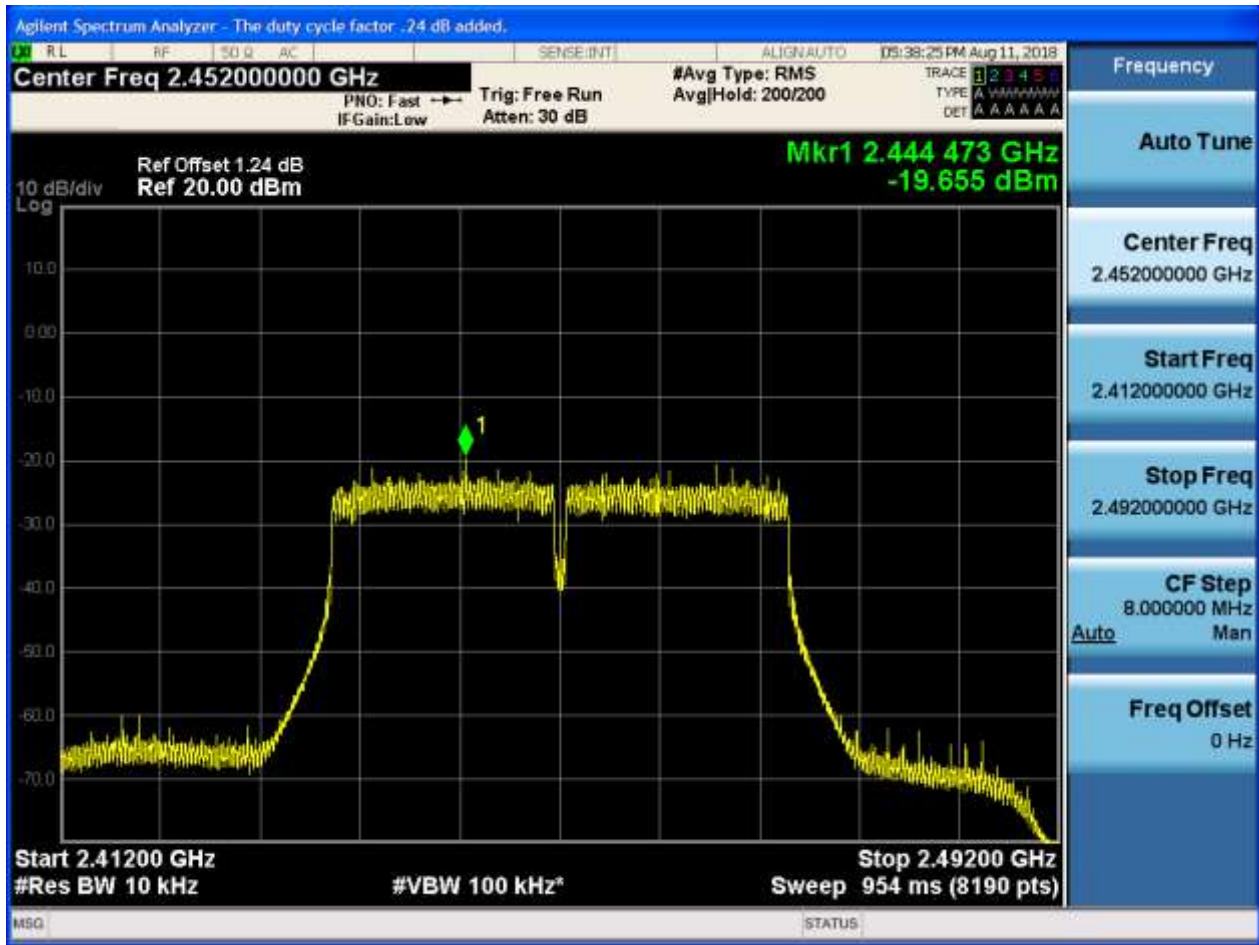


2.55 11N40m_H_2452@Ant 1



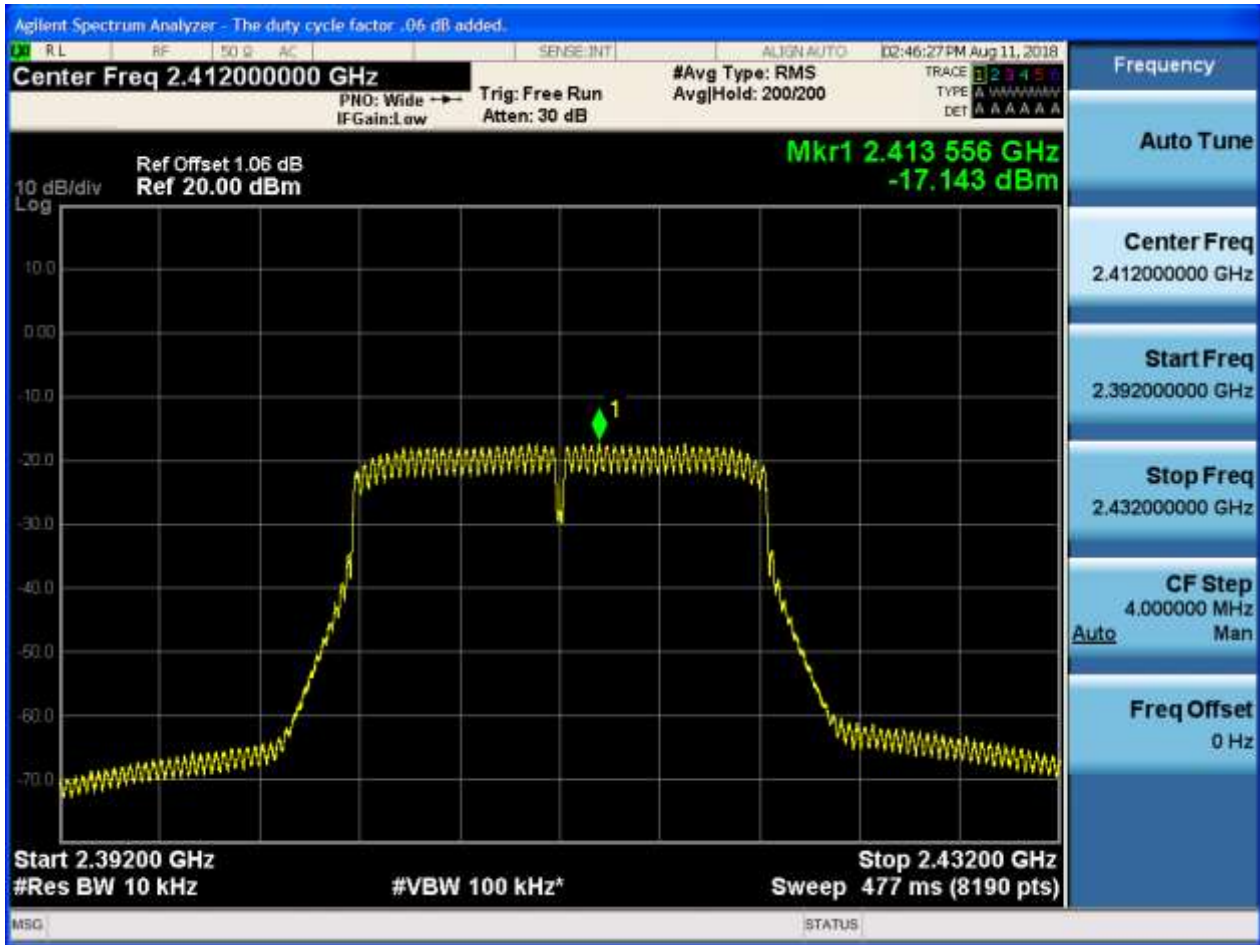


2.56 11N40m_H_2452@Ant 2



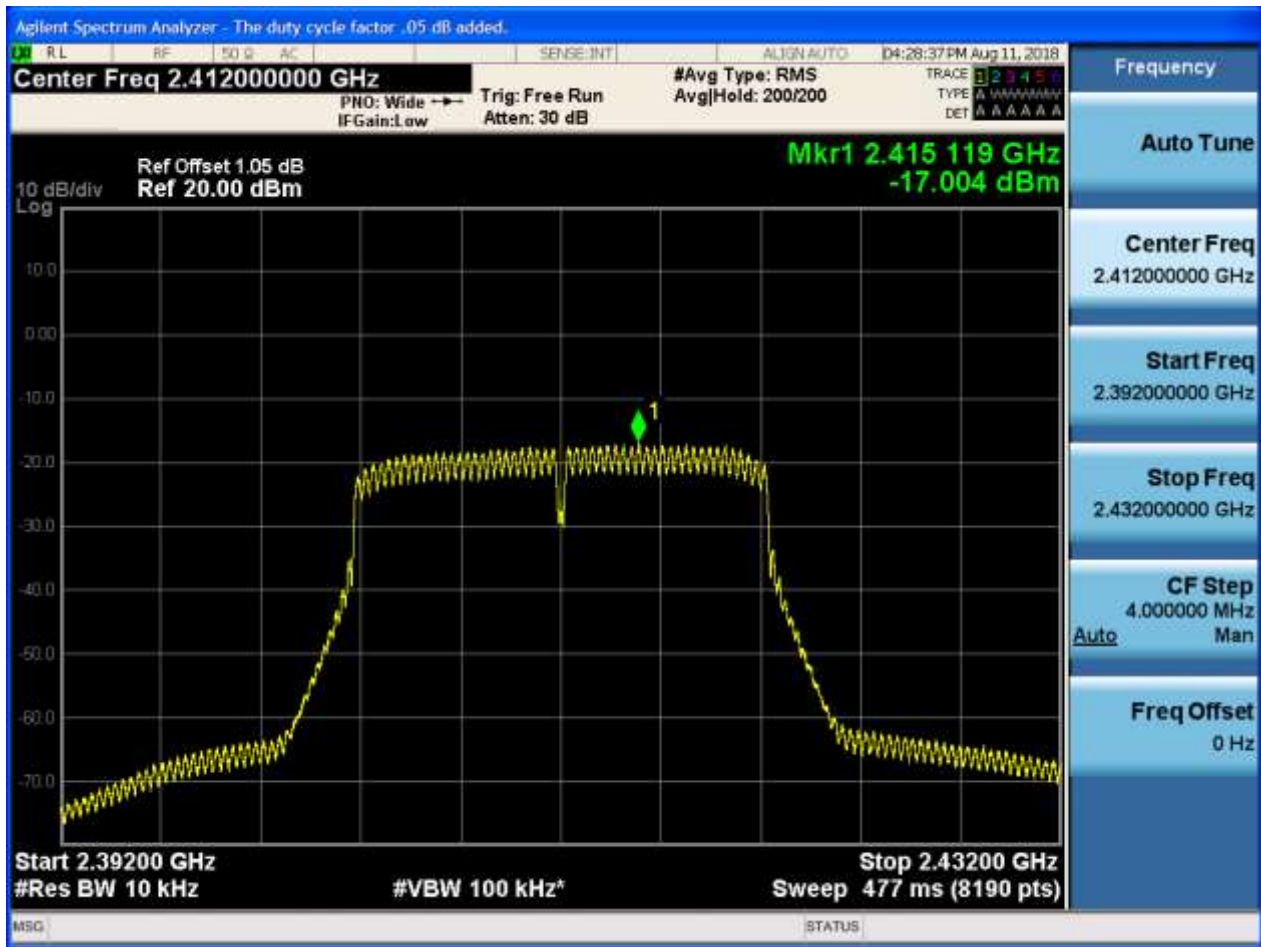


2.57 11G CDD_L_2412@Ant 1



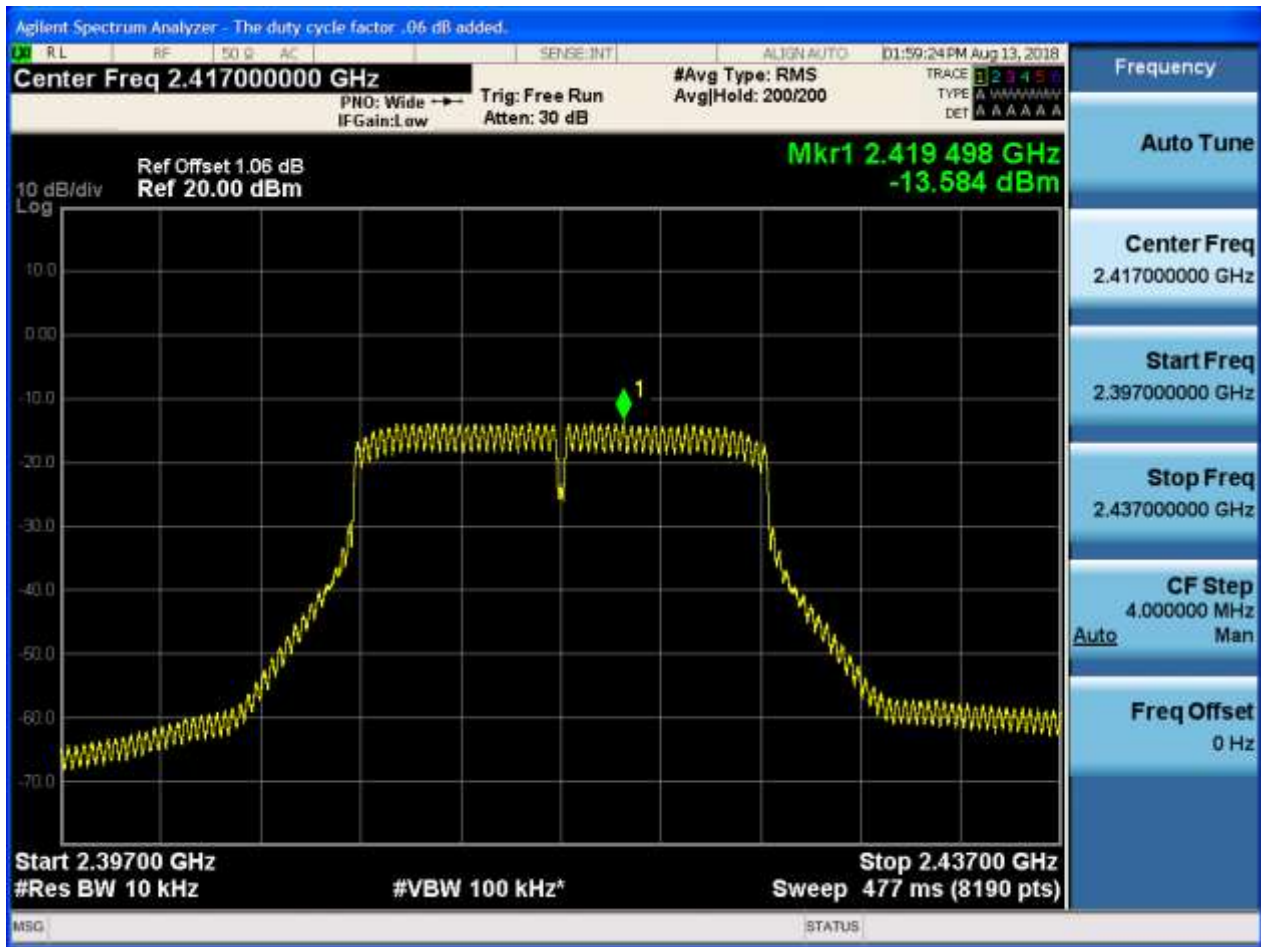


2.58 11G CDD _L_2412@Ant 2



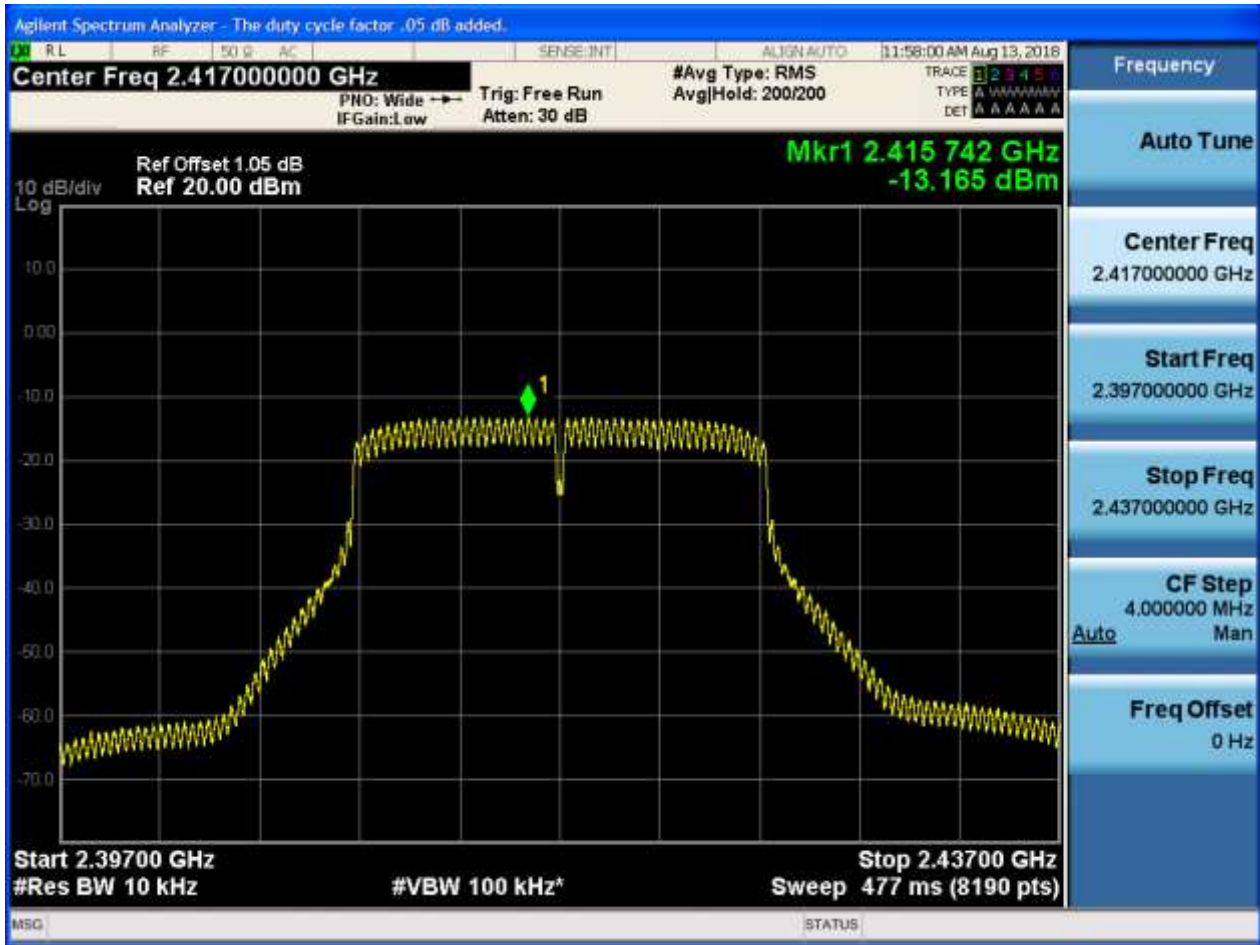


2.59 11G CDD _L_2417@Ant 1



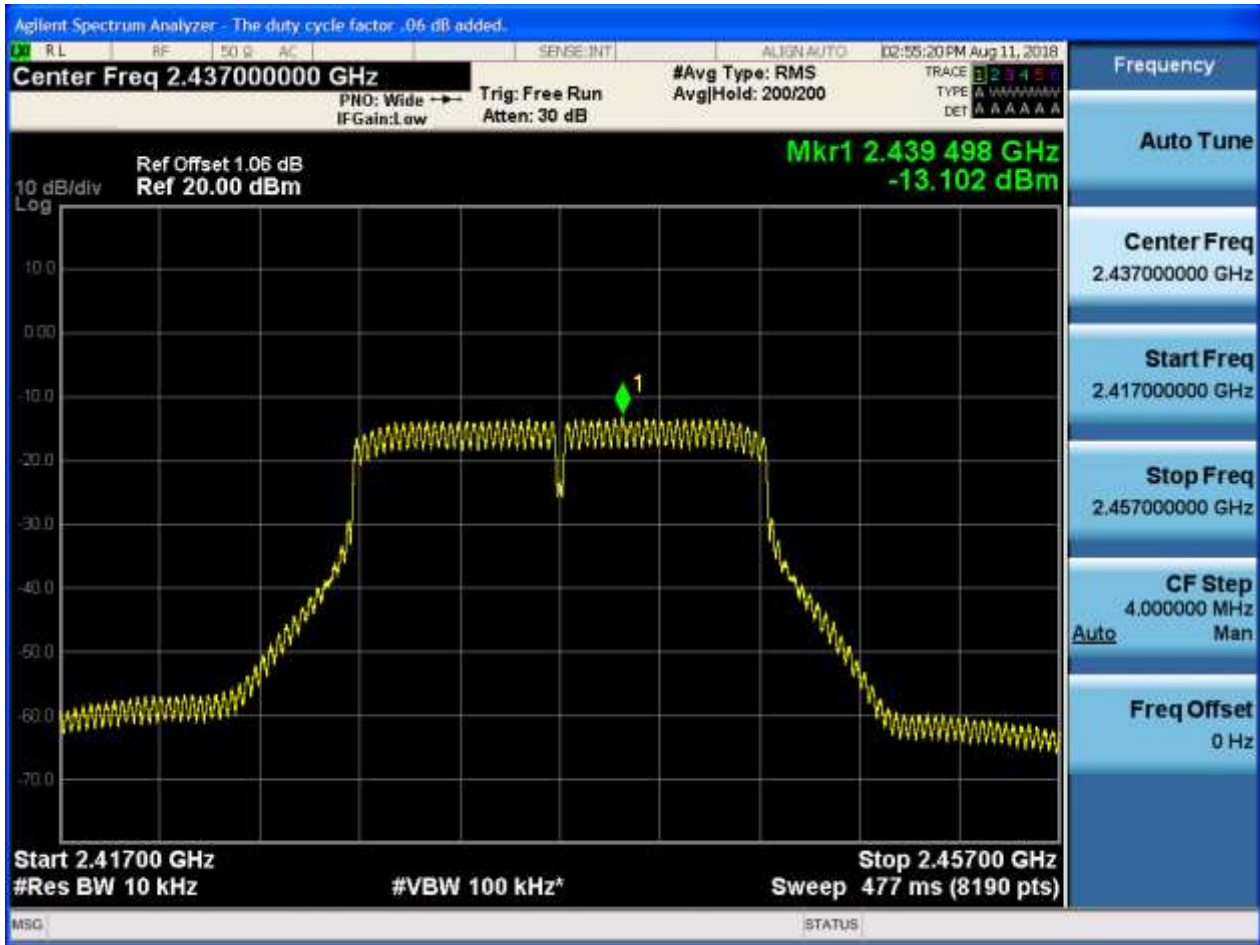


2.60 11G CDD _L_2417@Ant 2





2.61 11G CDD _M_2437@Ant 1



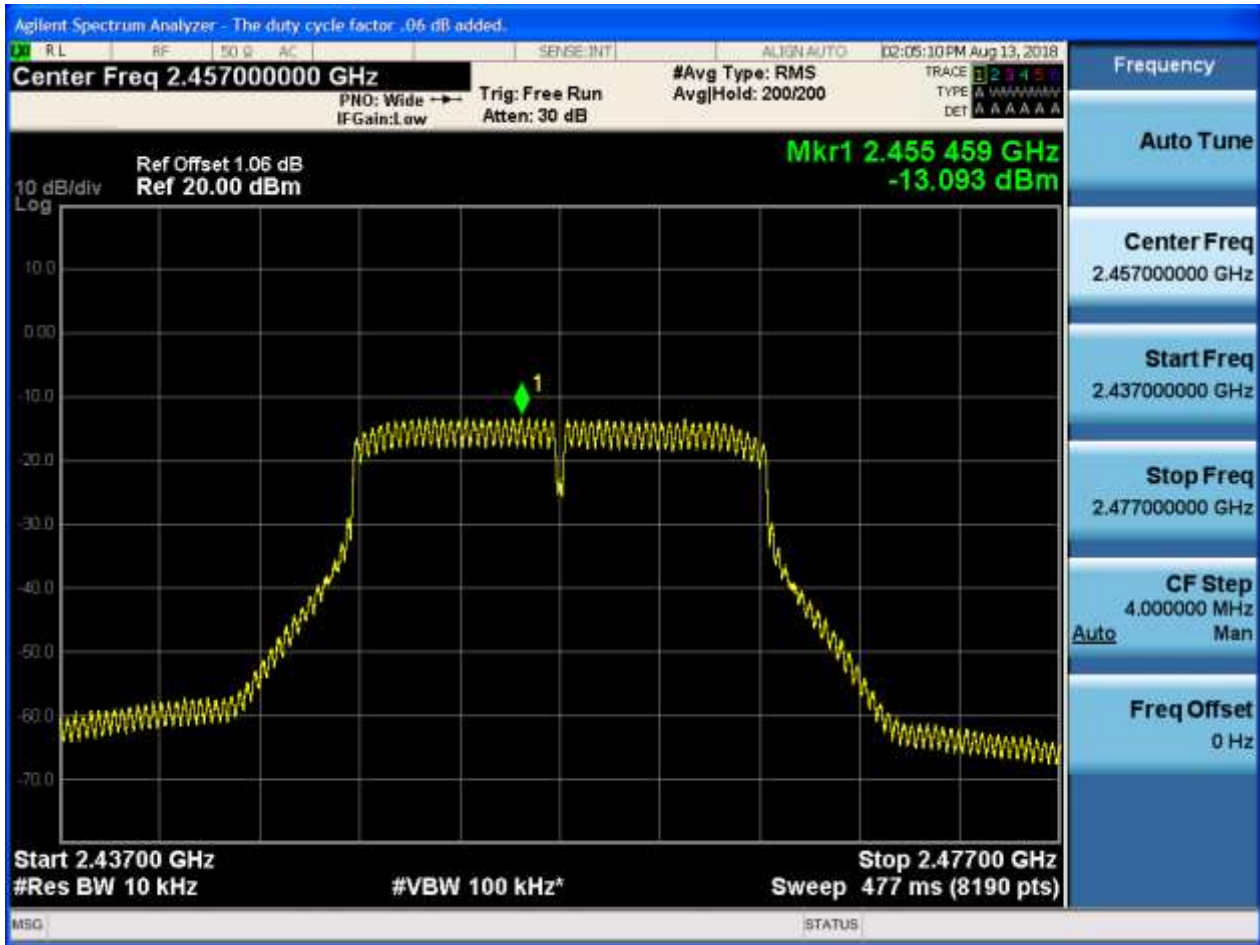


2.62 11G CDD _M_2437@Ant 2



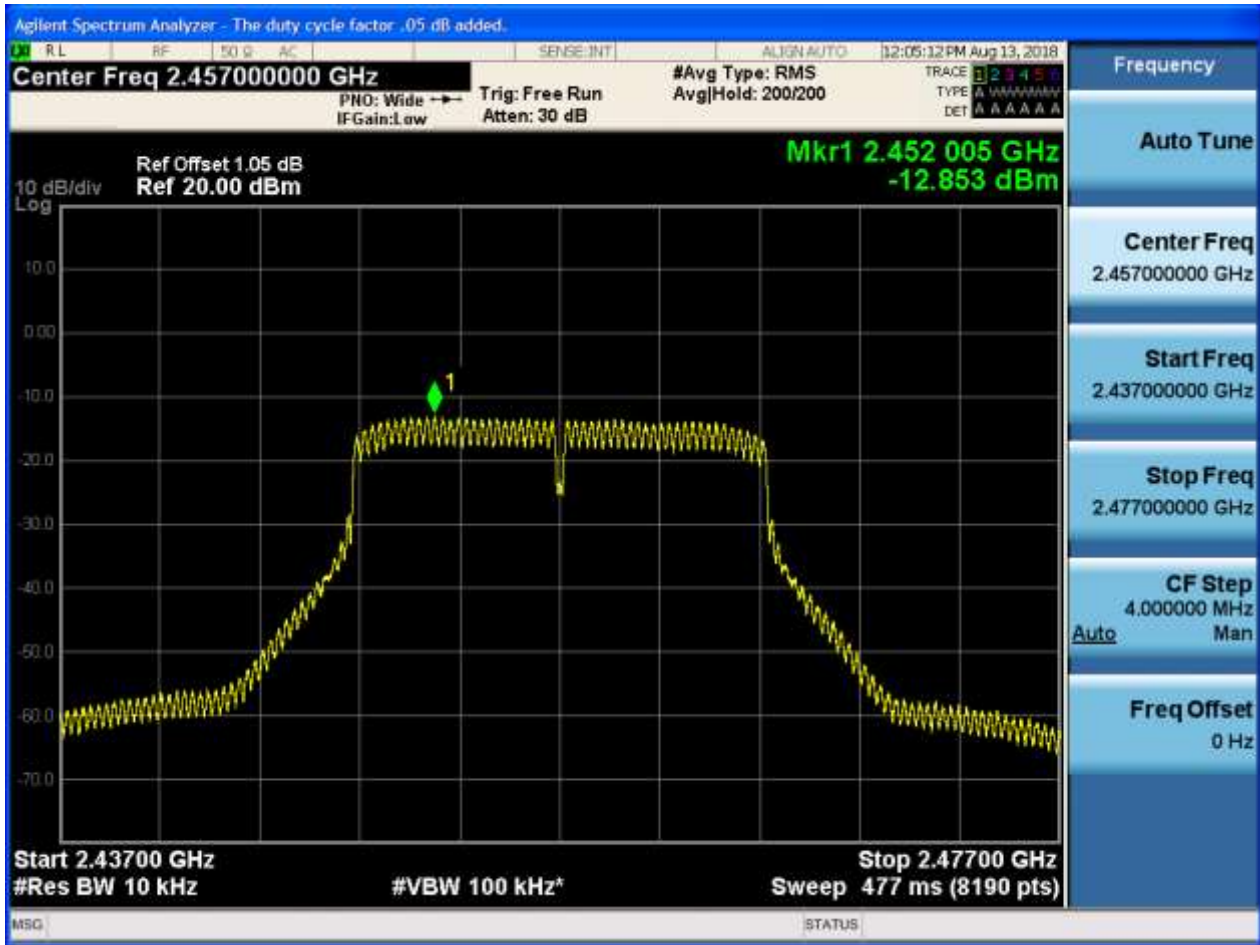


2.63 11G CDD _H_2457@Ant 1





2.64 11G CDD _H_2457@Ant 2



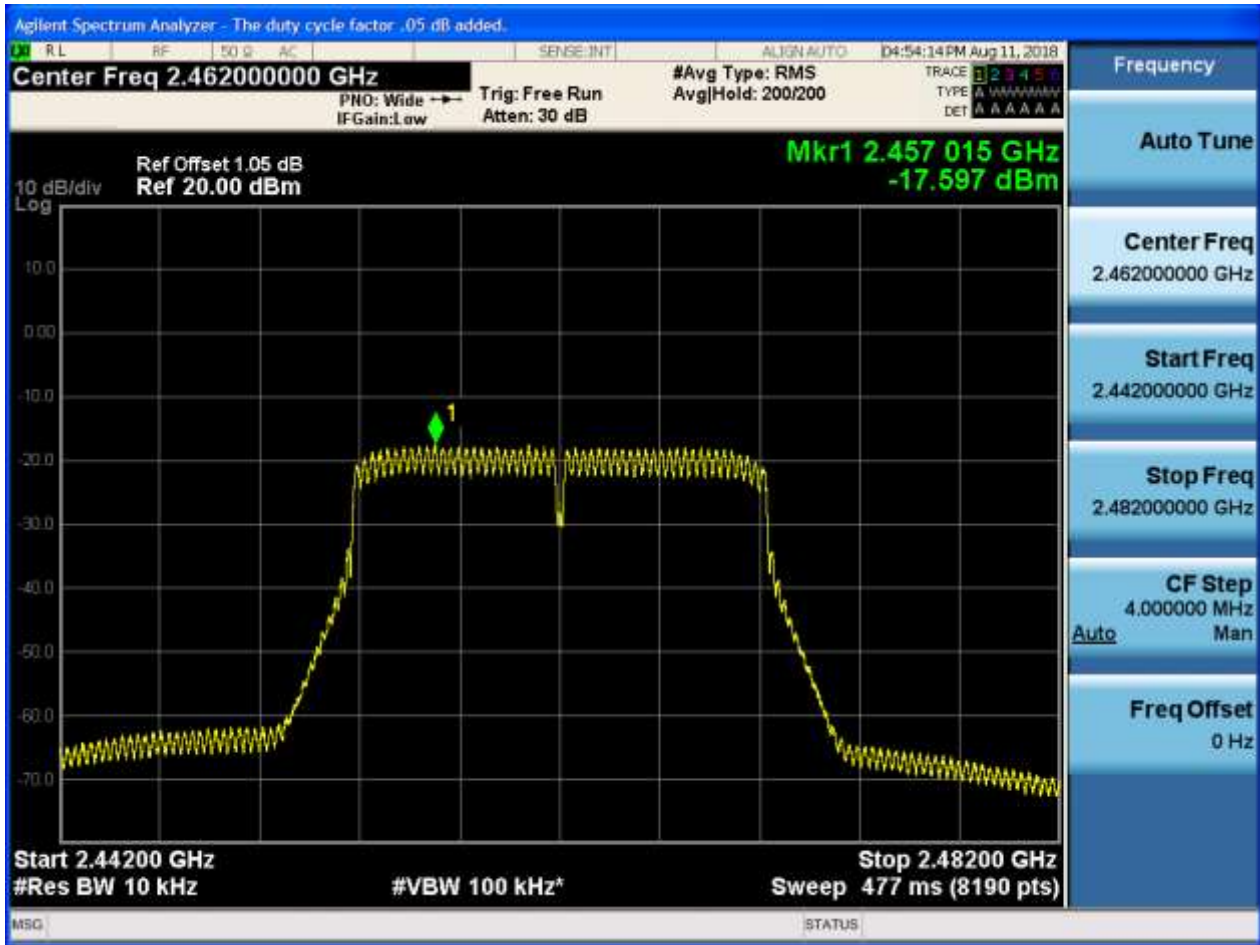


2.65 11G CDD _H_2462@Ant 1





2.66 11G CDD _H_2462@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	8.62	-36.34	pass
11B	L	2412	Ant 2	9.63	-42.22	pass
11B	H	2462	Ant 1	8.97	-51.22	pass
11B	H	2462	Ant 2	9.07	-49.06	pass
11G	L	2412	Ant 1	1.09	-45.32	pass
11G	L	2412	Ant 2	1.20	-45.55	pass
11G	L	2417	Ant 1	5.03	-41.12	pass
11G	L	2417	Ant 2	5.33	-43.51	pass
11G	H	2457	Ant 1	5.20	-46.77	pass
11G	H	2457	Ant 2	5.68	-49.51	pass
11G	H	2462	Ant 1	1.64	-48.19	pass
11G	H	2462	Ant 2	0.82	-48.78	pass
11N20	L	2412	Ant 1	0.92	-45.21	pass
11N20	L	2412	Ant 2	0.81	-46.91	pass
11N20	L	2417	Ant 1	3.87	-41.94	pass
11N20	L	2417	Ant 2	4.34	-46.05	pass
11N20	H	2457	Ant 1	4.22	-49.20	pass
11N20	H	2457	Ant 2	4.63	-48.82	pass
11N20	H	2462	Ant 1	1.50	-47.98	pass
11N20	H	2462	Ant 2	0.64	-48.02	pass
11N20m	L	2412	Ant 1	0.47	-45.79	pass
11N20m	L	2412	Ant 2	1.14	-46.57	pass
11N20m	L	2417	Ant 1	3.95	-41.78	pass
11N20m	L	2417	Ant 2	4.05	-46.03	pass
11N20m	H	2457	Ant 1	4.23	-48.88	pass
11N20m	H	2457	Ant 2	4.50	-49.64	pass
11N20m	H	2462	Ant 1	0.89	-49.50	pass
11N20m	H	2462	Ant 2	0.38	-46.16	pass
11N40	L	2422	Ant 1	-3.30	-39.58	pass
11N40	L	2422	Ant 2	-3.66	-41.38	pass
11N40	L	2427	Ant 1	-0.66	-44.27	pass
11N40	L	2427	Ant 2	-0.25	-44.89	pass
11N40	H	2447	Ant 1	-0.66	-43.55	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
11N40	H	2447	Ant 2	-0.31	-43.44	pass
11N40	H	2452	Ant 1	-3.28	-46.46	pass
11N40	H	2452	Ant 2	-3.84	-45.70	pass
11N40m	L	2422	Ant 1	-4.55	-41.13	pass
11N40m	L	2422	Ant 2	-4.16	-41.11	pass
11N40m	L	2427	Ant 1	-0.58	-45.12	pass
11N40m	L	2427	Ant 2	-0.10	-44.62	pass
11N40m	H	2447	Ant 1	-0.63	-44.38	pass
11N40m	H	2447	Ant 2	-0.45	-44.25	pass
11N40m	H	2452	Ant 1	-4.37	-47.76	pass
11N40m	H	2452	Ant 2	-4.78	-47.97	pass
11G CDD	L	2412	Ant 1	0.60	-45.56	pass
11G CDD	L	2412	Ant 2	1.14	-44.73	pass
11G CDD	L	2417	Ant 1	4.97	-45.77	pass
11G CDD	L	2417	Ant 2	5.24	-43.46	pass
11G CDD	H	2457	Ant 1	5.28	-50.43	pass
11G CDD	H	2457	Ant 2	5.53	-48.70	pass
11G CDD	H	2462	Ant 1	0.92	-48.20	pass
11G CDD	H	2462	Ant 2	0.64	-47.98	pass



Part II - Test Plots

2.1 11B_L_2412@Ant 1





2.2 11B_L_2412@Ant 2





2.3 11B_H_2462@Ant 1





2.4 11B_H_2462@Ant 2





2.5 11G_L_2412@Ant 1





2.6 11G_L_2412@Ant 2





2.7 11G_L_2417@Ant 1





2.8 11G_L_2417@Ant 2





2.9 11G_H_2457@Ant 1





2.10 11G_H_2457@Ant 2





2.11 11G_H_2462@Ant 1





2.12 11G_H_2462@Ant 2





2.13 11N20_L_2412@Ant 1





2.14 11N20_L_2412@Ant 2





2.15 11N20_L_2417@Ant 1





2.16 11N20_L_2417@Ant 2





2.17 11N20_H_2457@Ant 1





2.18 11N20_H_2457@Ant 2





2.19 11N20_H_2462@Ant 1





2.20 11N20_H_2462@Ant 2





2.21 11N20m_L_2412@Ant 1





2.22 11N20m_L_2412@Ant 2





2.23 11N20m_L_2417@Ant 1





2.24 11N20m_L_2417@Ant 2





2.25 11N20m_H_2457@Ant 1





2.26 11N20m_H_2457@Ant 2





2.27 11N20m_H_2462@Ant 1





2.28 11N20m_H_2462@Ant 2





2.29 11N40_ L _2422@Ant 1





2.30 11N40_ L _2422@Ant 2





2.31 11N40_L_2427@Ant 1





2.32 11N40_L_2427@Ant 2





2.33 11N40_H_2447@Ant 1





2.34 11N40_H_2447@Ant 2





2.35 11N40_H_2452@Ant 1





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.473500000 GHz

Ref Offset 1 dB
Ref 30.00 dBm

Mkr2 2.483 50 GHz
-45.703 dBm

Start 2.45350 GHz
#Res BW 100 kHz

Stop 2.49350 GHz
#Sweep 100 ms (601 pts)

#VBW 300 kHz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.456 97 GHz	-3.844 dBm			
2	N	1	f	2.483 50 GHz	-45.703 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

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

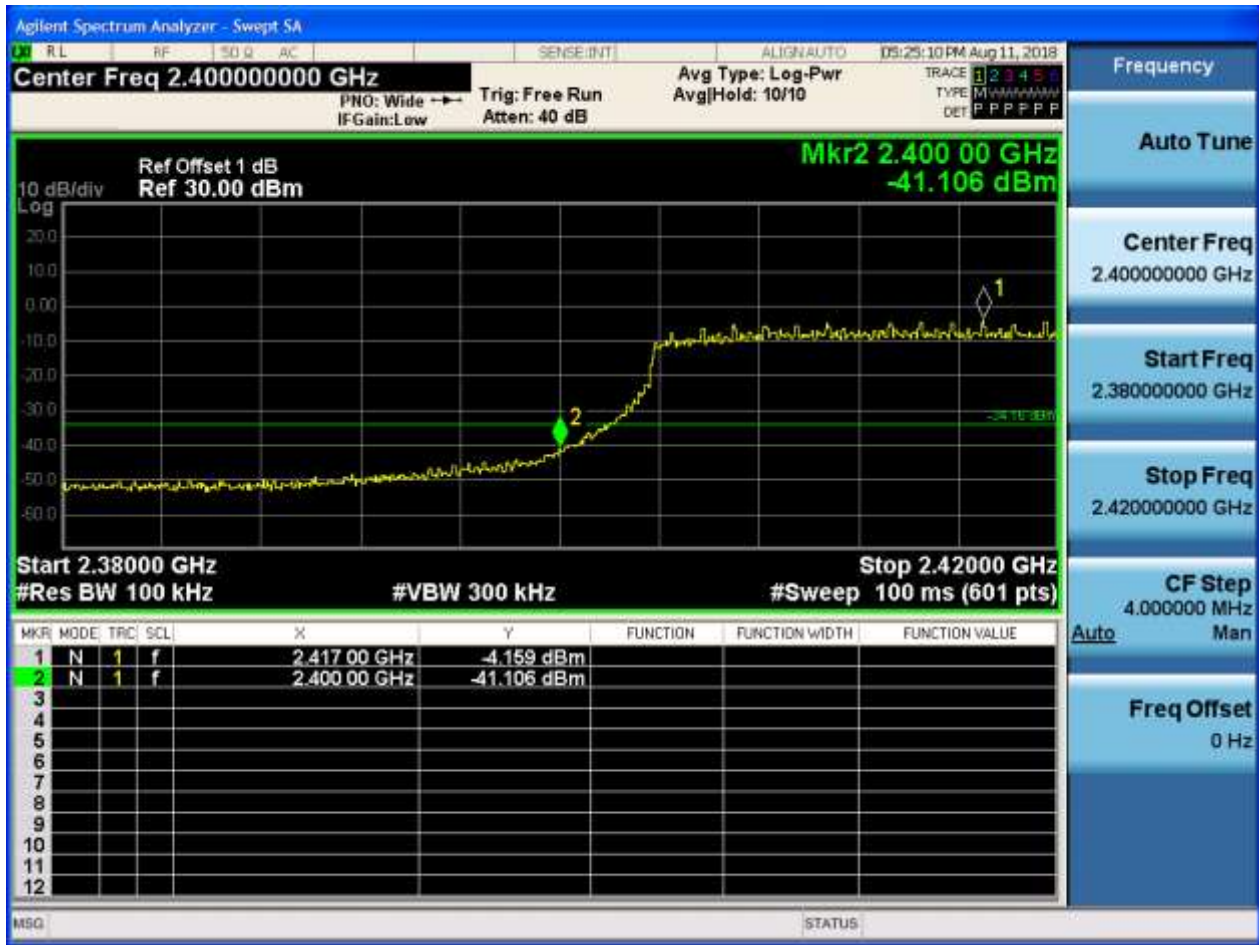


2.37 11N40m_L_2422@Ant 1





2.38 11N40m_L_2422@Ant 2





2.39 11N40m_L_2427@Ant 1





2.40 11N40m_L_2427@Ant 2





2.41 11N40m_H_2447@Ant 1





2.42 11N40m_H_2447@Ant 2





2.43 11N40m_H_2452@Ant 1





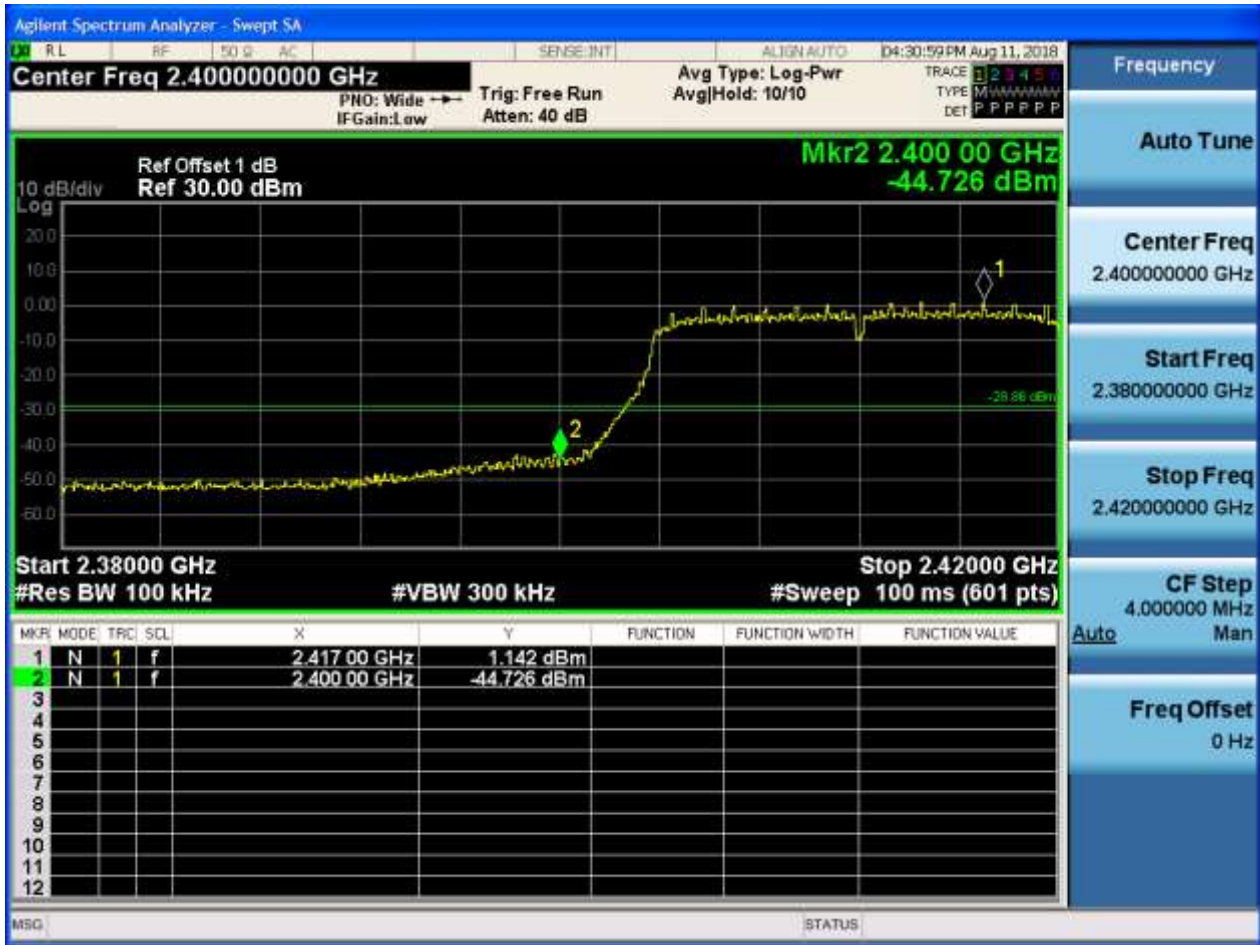
2.44 11N40m_H_2452@Ant 2



[illegible]



2.46 11G CDD _L_2412@Ant 2





2.47 11G CDD _L_2417@Ant 1





2.48 11G CDD _L_2417@Ant 2





2.49 11G CDD _H_2457@Ant 1





2.50 11G CDD _H_2457@Ant 2





2.51 11G CDD _H_2462@Ant 1





2.52 11G CDD _H_2462@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	9.12	<limit	pass
11B	L	2412	Ant 2	9.79	<limit	pass
11B	M	2437	Ant 1	8.69	<limit	pass
11B	M	2437	Ant 2	9.46	<limit	pass
11B	H	2462	Ant 1	8.86	<limit	pass
11B	H	2462	Ant 2	9.10	<limit	pass
11G	L	2412	Ant 1	1.60	<limit	pass
11G	L	2412	Ant 2	1.29	<limit	pass
11G	L	2417	Ant 1	5.37	<limit	pass
11G	L	2417	Ant 2	5.75	<limit	pass
11G	M	2437	Ant 1	5.28	<limit	pass
11G	M	2437	Ant 2	5.51	<limit	pass
11G	H	2457	Ant 1	5.62	<limit	pass
11G	H	2457	Ant 2	5.74	<limit	pass
11G	H	2462	Ant 1	1.75	<limit	pass
11G	H	2462	Ant 2	0.95	<limit	pass

Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11N20	L	2412	Ant 1	1.32	<limit	pass
11N20	L	2412	Ant 2	1.06	<limit	pass
11N20	L	2417	Ant 1	4.23	<limit	pass
11N20	L	2417	Ant 2	4.72	<limit	pass
11N20	M	2437	Ant 1	4.09	<limit	pass
11N20	M	2437	Ant 2	4.48	<limit	pass
11N20	H	2457	Ant 1	4.44	<limit	pass
11N20	H	2457	Ant 2	4.74	<limit	pass
11N20	H	2462	Ant 1	1.24	<limit	pass
11N20	H	2462	Ant 2	0.71	<limit	pass
11N20m	L	2412	Ant 1	0.96	<limit	pass
11N20m	L	2412	Ant 2	1.23	<limit	pass
11N20m	L	2417	Ant 1	4.04	<limit	pass
11N20m	L	2417	Ant 2	4.45	<limit	pass
11N20m	M	2437	Ant 1	4.31	<limit	pass
11N20m	M	2437	Ant 2	4.96	<limit	pass
11N20m	H	2457	Ant 1	4.35	<limit	pass
11N20m	H	2457	Ant 2	4.46	<limit	pass
11N20m	H	2462	Ant 1	0.98	<limit	pass
11N20m	H	2462	Ant 2	0.42	<limit	pass
11N40	L	2422	Ant 1	-3.00	<limit	pass
11N40	L	2422	Ant 2	-3.55	<limit	pass
11N40	L	2427	Ant 1	-0.58	<limit	pass
11N40	L	2427	Ant 2	-0.15	<limit	pass
11N40	M	2437	Ant 1	-0.23	<limit	pass
11N40	M	2437	Ant 2	0.14	<limit	pass
11N40	H	2447	Ant 1	-0.58	<limit	pass
11N40	H	2447	Ant 2	-0.22	<limit	pass
11N40	H	2452	Ant 1	-3.18	<limit	pass
11N40	H	2452	Ant 2	-3.24	<limit	pass
11N40m	L	2422	Ant 1	-4.15	<limit	pass
11N40m	L	2422	Ant 2	-4.15	<limit	pass
11N40m	L	2427	Ant 1	-0.49	<limit	pass
11N40m	L	2427	Ant 2	0.19	<limit	pass
11N40m	M	2437	Ant 1	-0.01	<limit	pass
11N40m	M	2437	Ant 2	0.04	<limit	pass
11N40m	H	2447	Ant 1	-0.43	<limit	pass
11N40m	H	2447	Ant 2	-0.11	<limit	pass
11N40m	H	2452	Ant 1	-3.99	<limit	pass
11N40m	H	2452	Ant 2	-4.21	<limit	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11G CDD	L	2412	Ant 1	1.34	<limit	pass
11G CDD	L	2412	Ant 2	1.38	<limit	pass
11G CDD	L	2417	Ant 1	5.24	<limit	pass
11G CDD	L	2417	Ant 2	5.65	<limit	pass
11G CDD	M	2437	Ant 1	5.12	<limit	pass
11G CDD	M	2437	Ant 2	6.10	<limit	pass
11G CDD	H	2457	Ant 1	5.38	<limit	pass
11G CDD	H	2457	Ant 2	5.55	<limit	pass
11G CDD	H	2462	Ant 1	1.07	<limit	pass
11G CDD	H	2462	Ant 2	0.69	<limit	pass



Part II - Test Plots

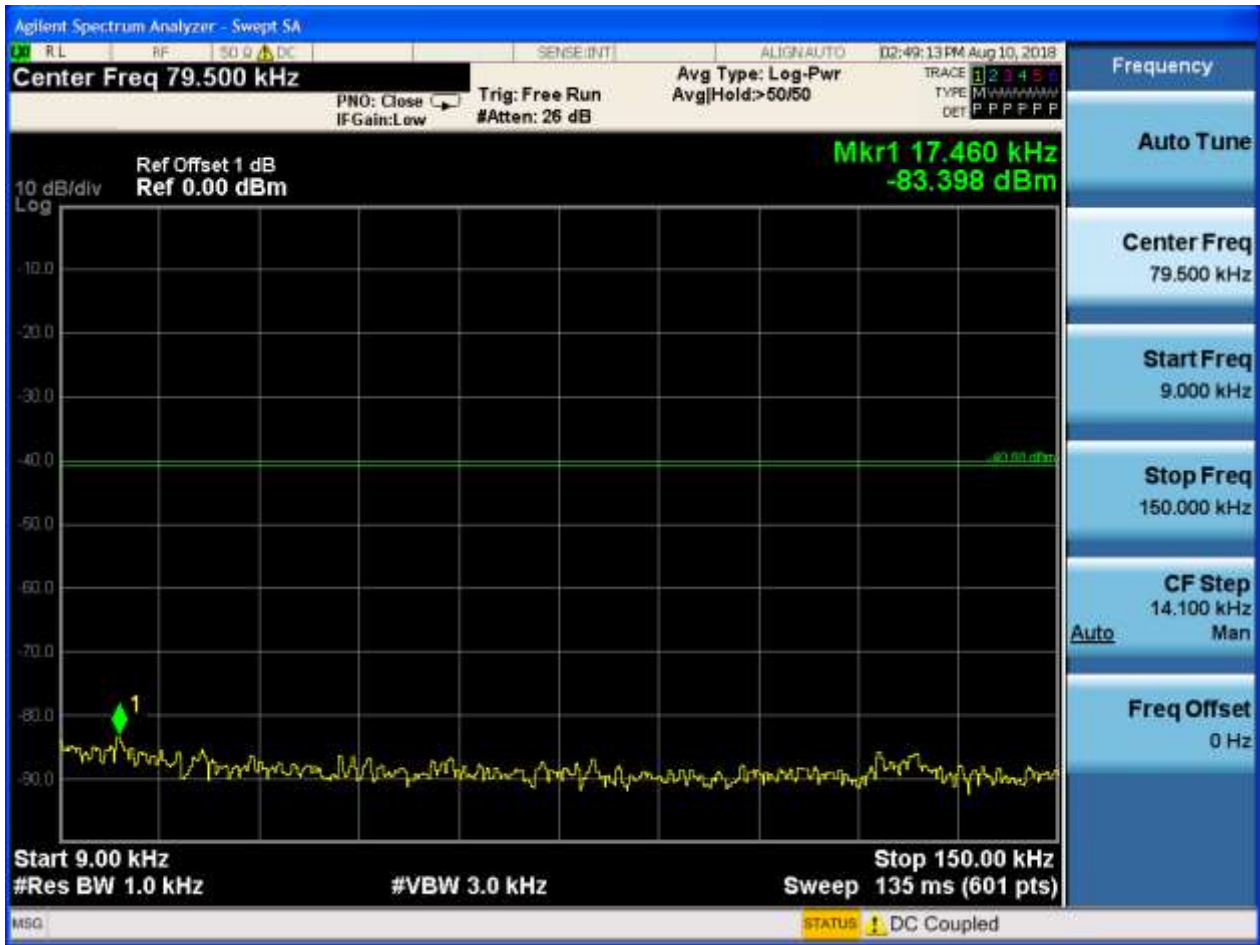
2.1 11B_L_2412@Ant 1

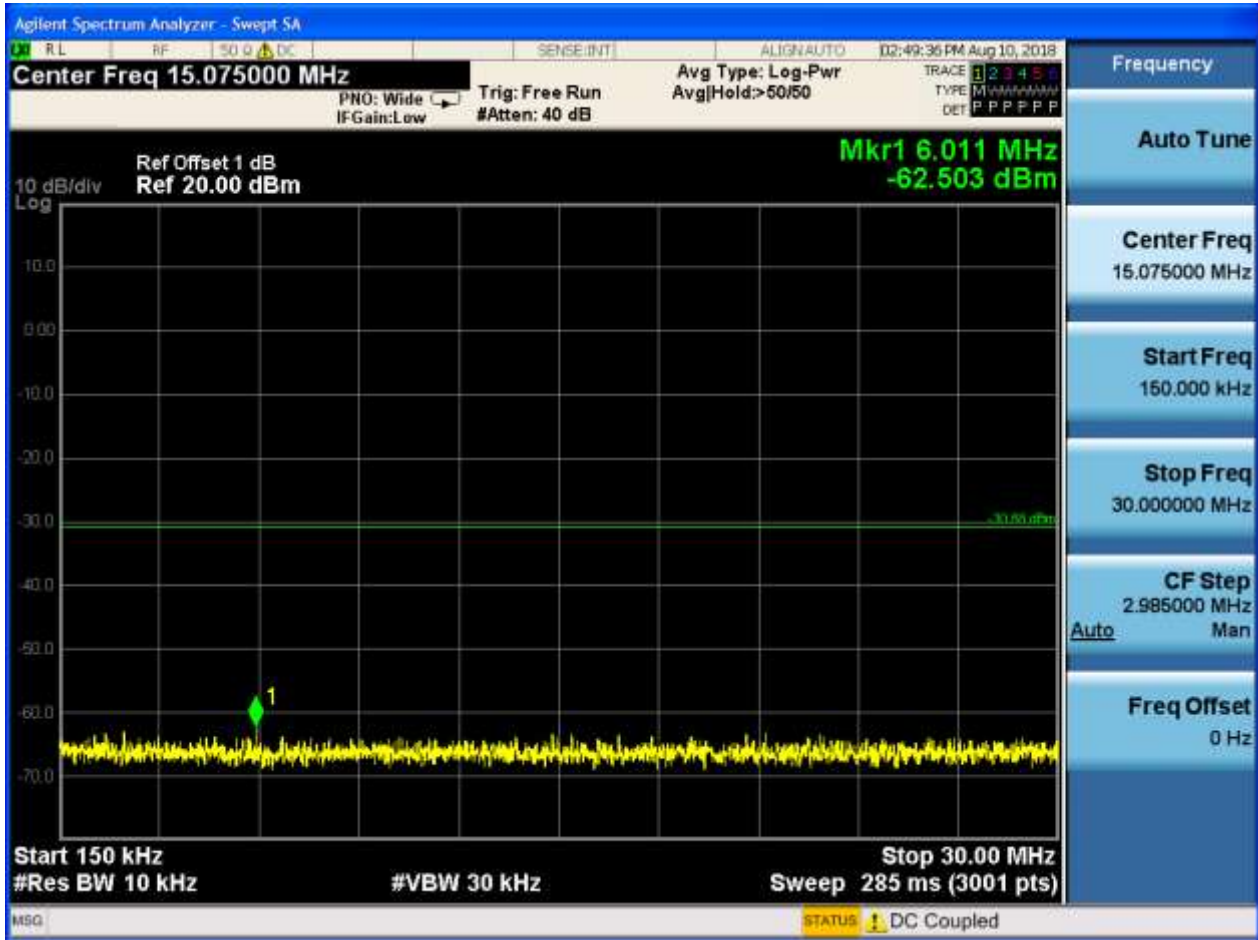
Pref:

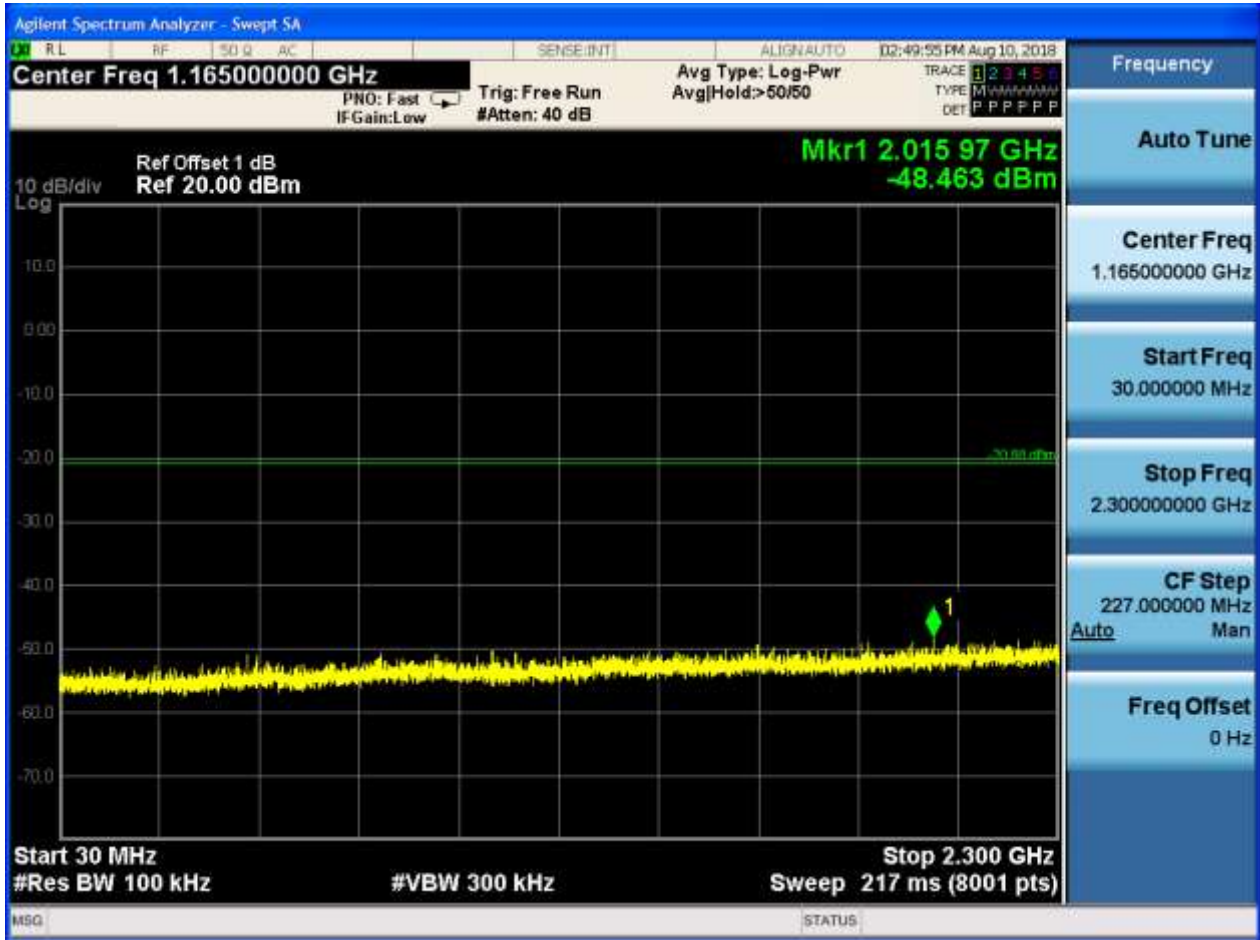




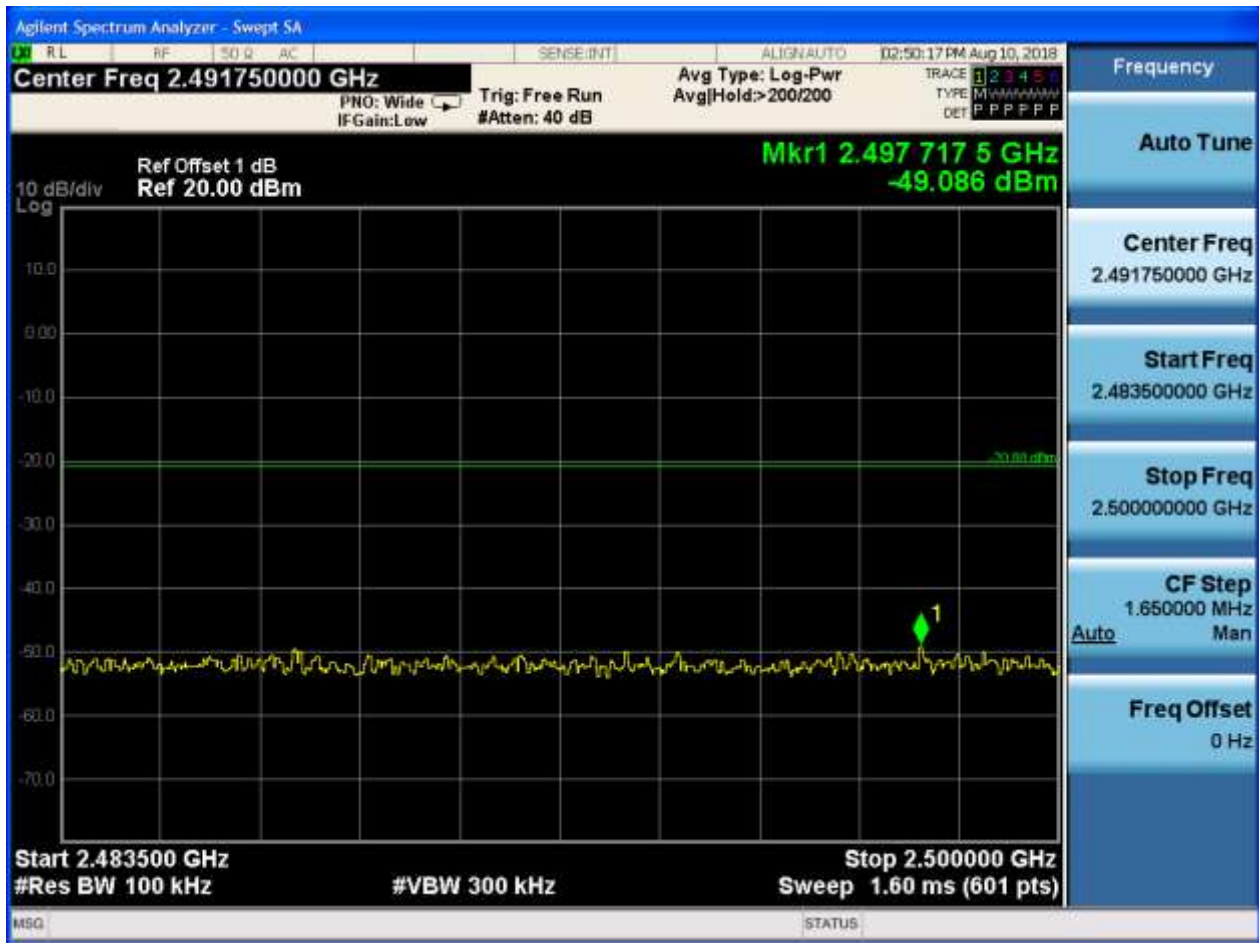
Puw:















2.2 11B_L_2412@Ant 2

Pref:





Agilent Spectrum Analyzer - Swept SA

Center Freq 79.500 kHz

Ref Offset 1 dB
Ref 0.00 dBm

Mkr1 9.940 kHz
-83.899 dBm

Start 9.00 kHz
#Res BW 1.0 kHz

Stop 150.00 kHz
Sweep 135 ms (601 pts)

#VBW 3.0 kHz

Frequency

Auto Tune

Center Freq
79.500 kHz

Start Freq
9.000 kHz

Stop Freq
150.000 kHz

CF Step
14.100 kHz
Man

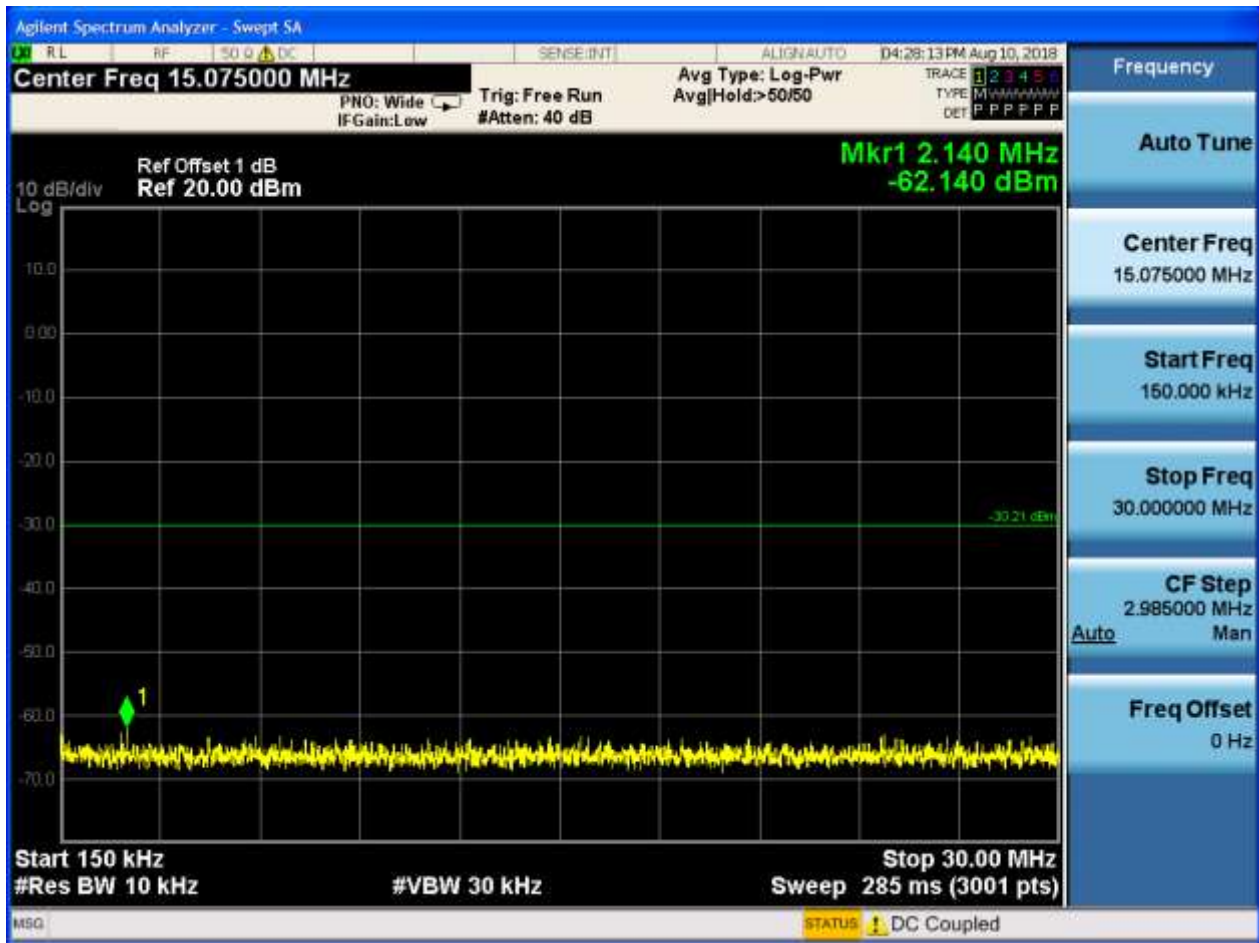
Auto

Freq Offset
0 Hz

MSG

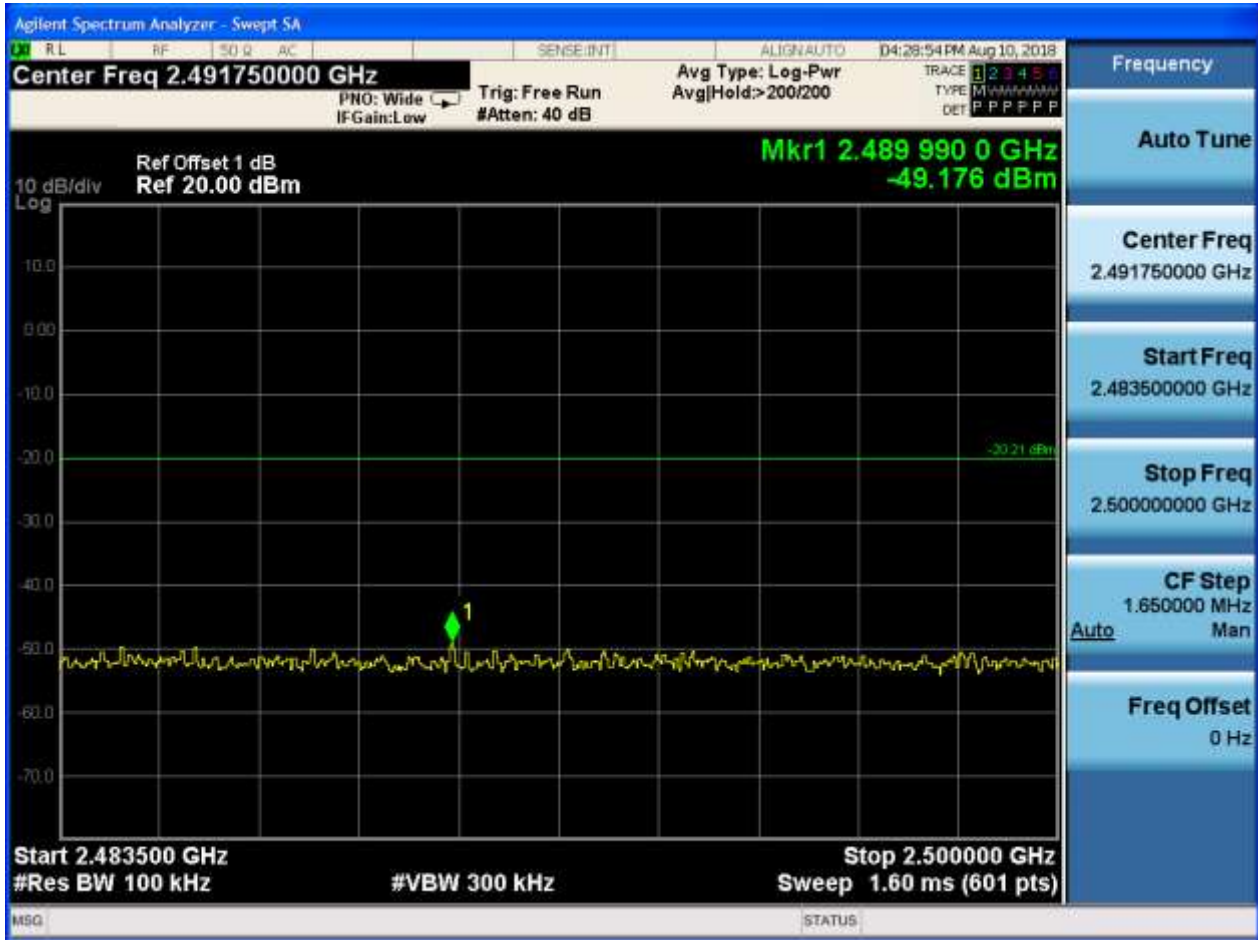
STATUS

DC Coupled











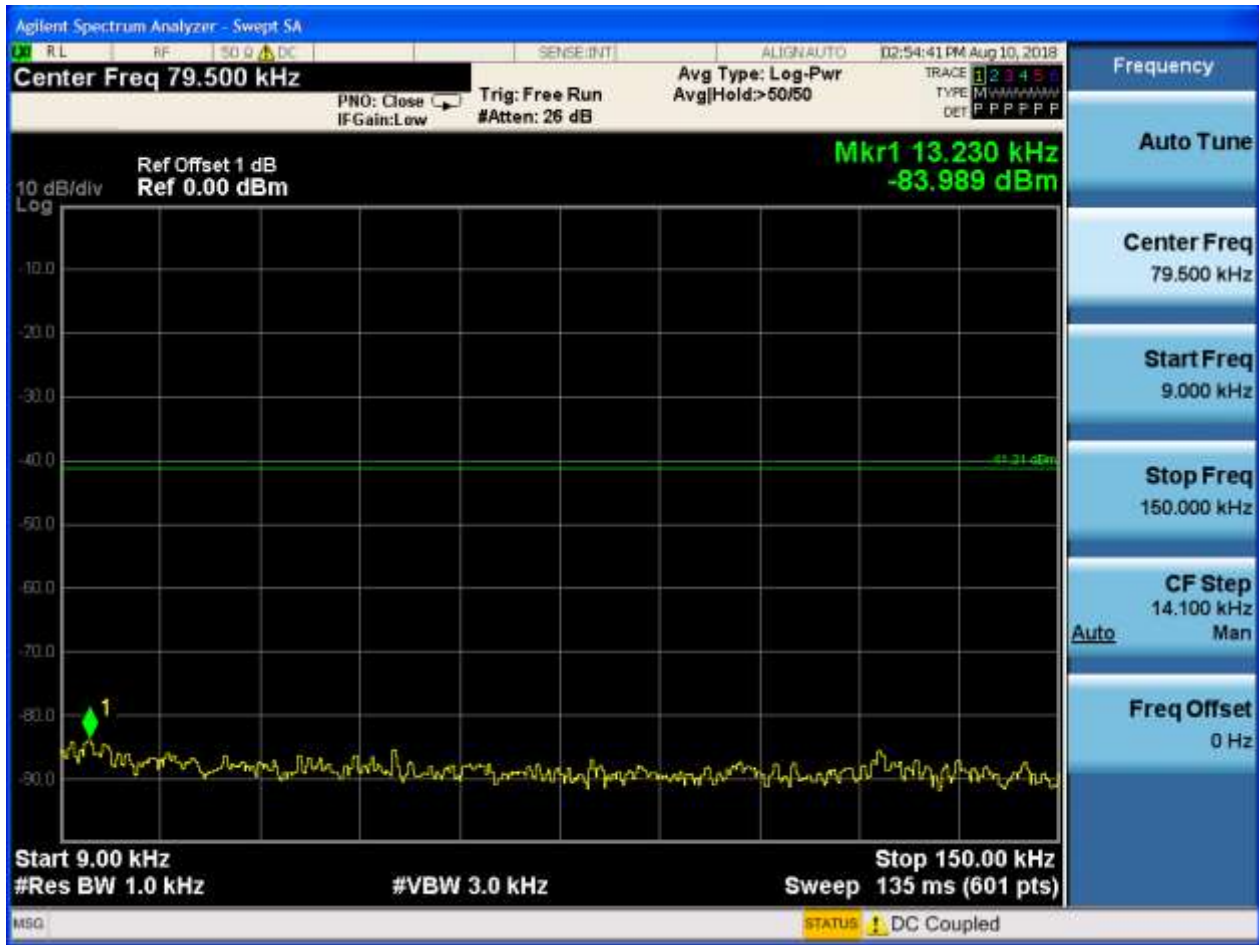
2.3 11B_M_2437@Ant 1

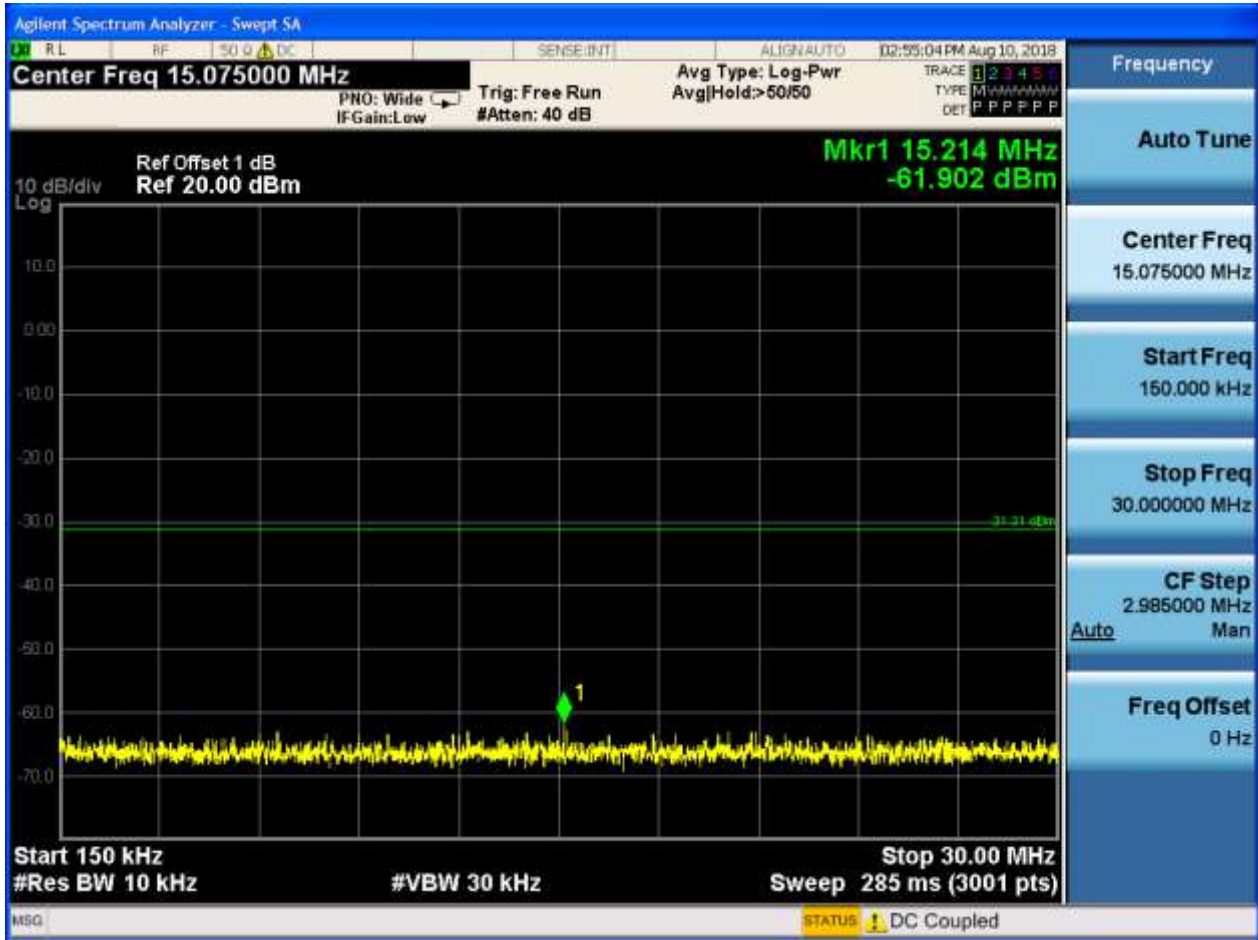
Pref:

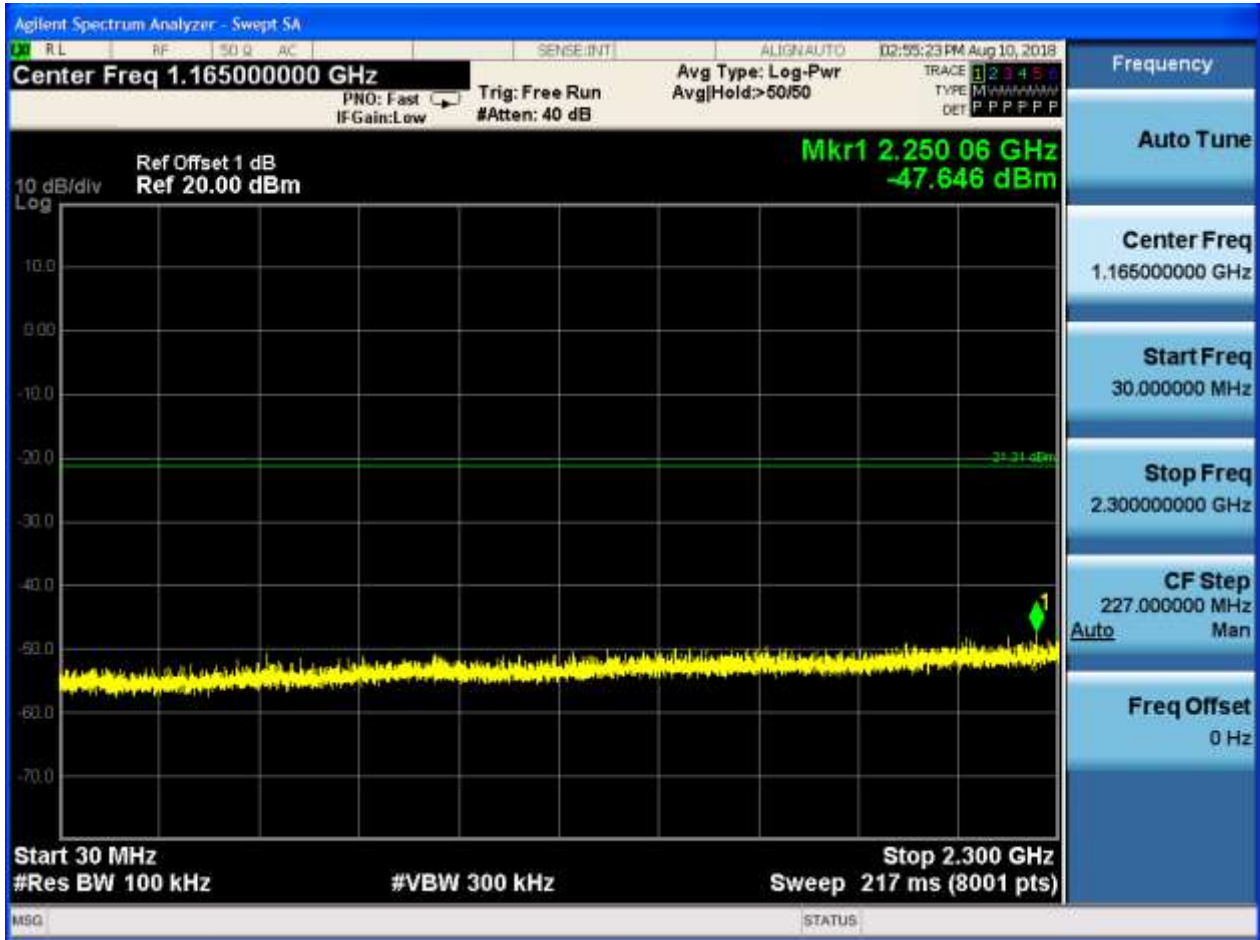


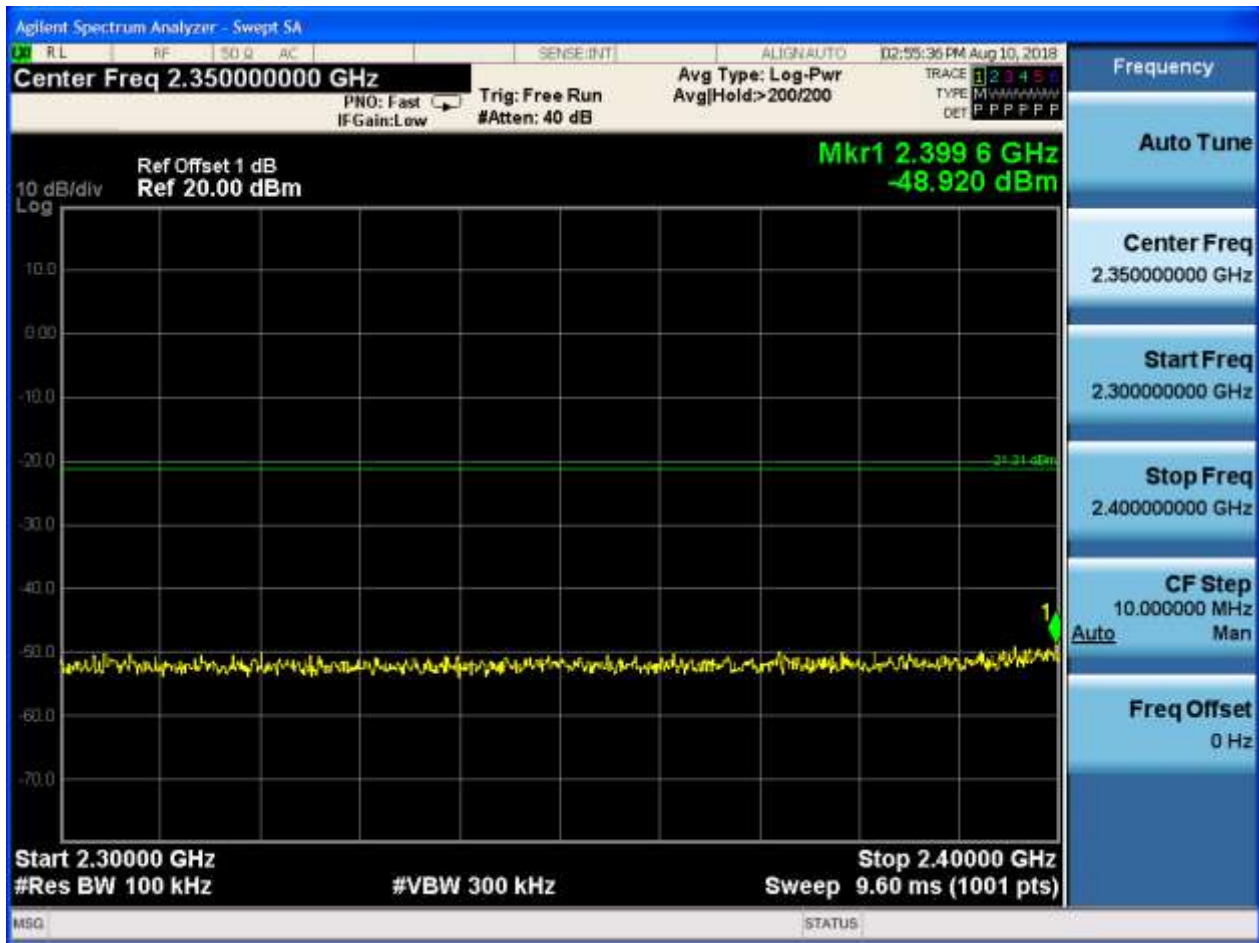


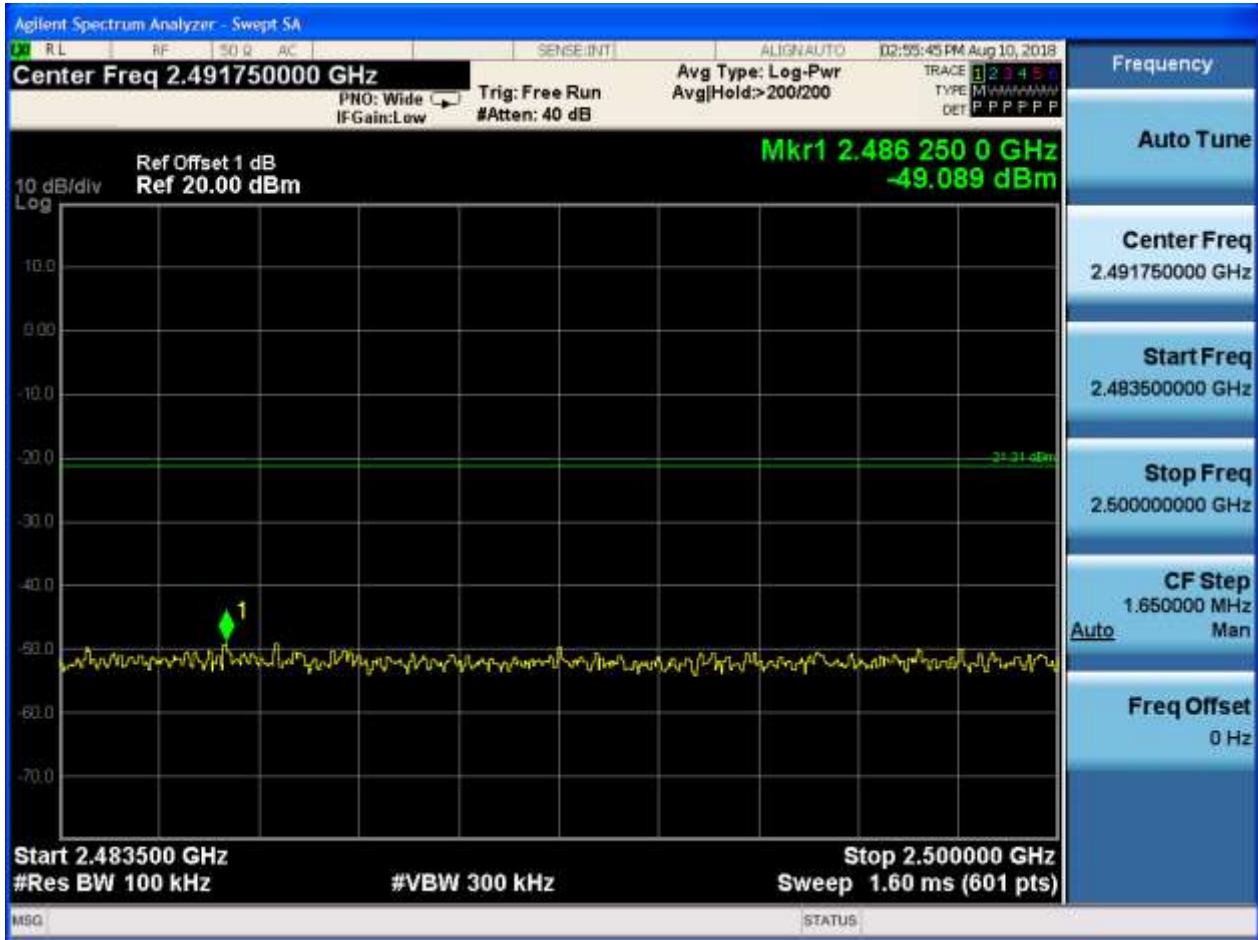
Puw:















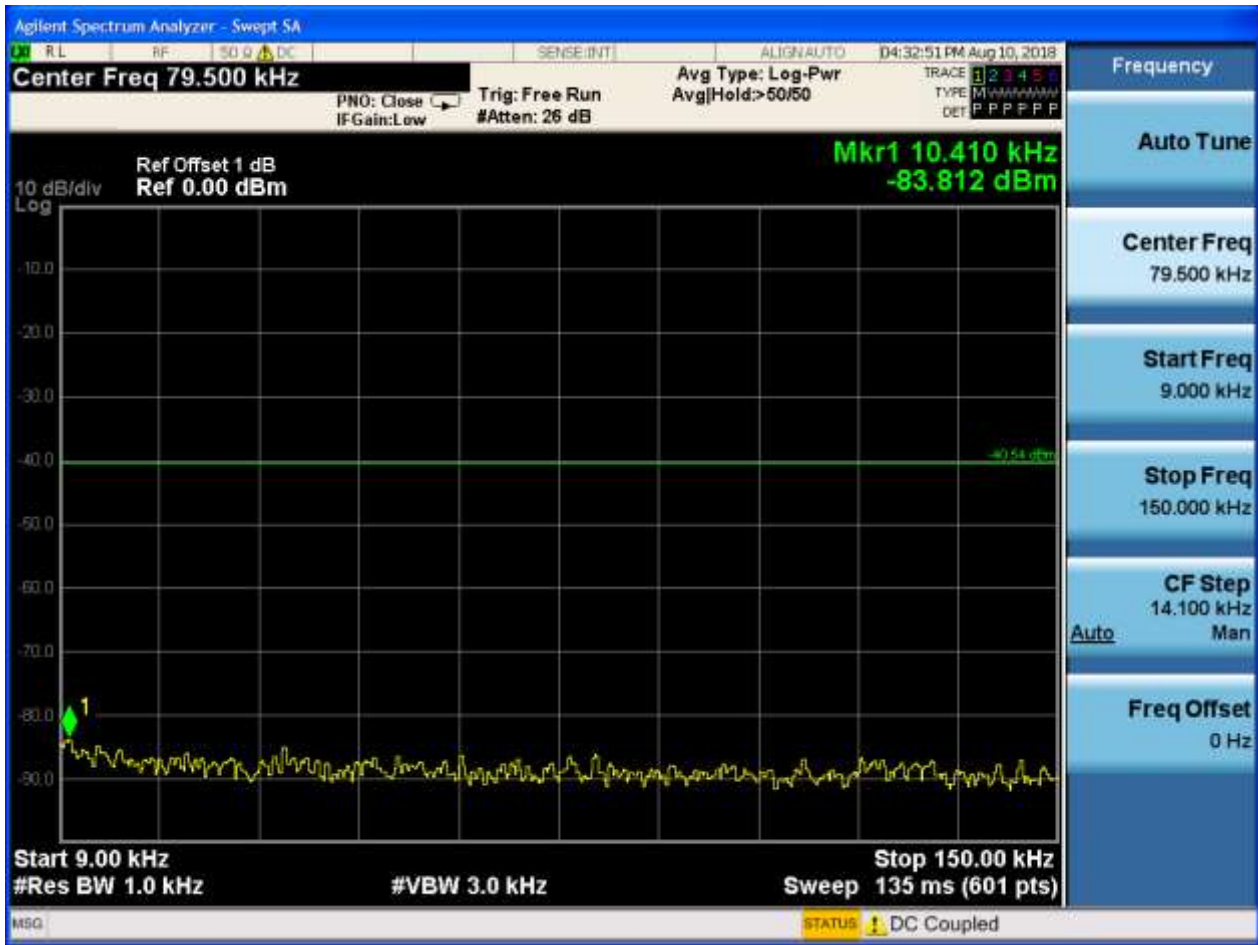
2.4 11B_M_2437@Ant 2

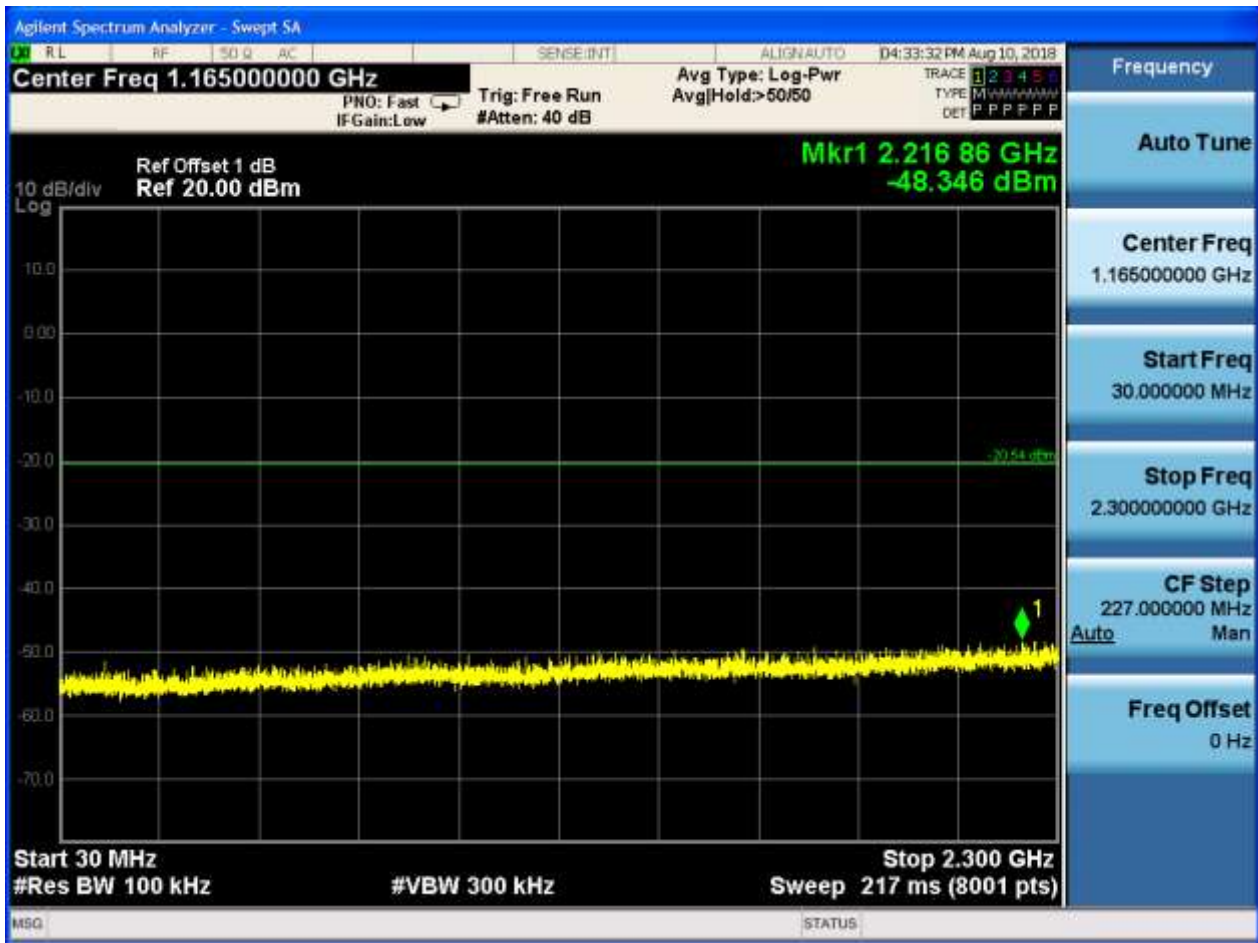
Pref:

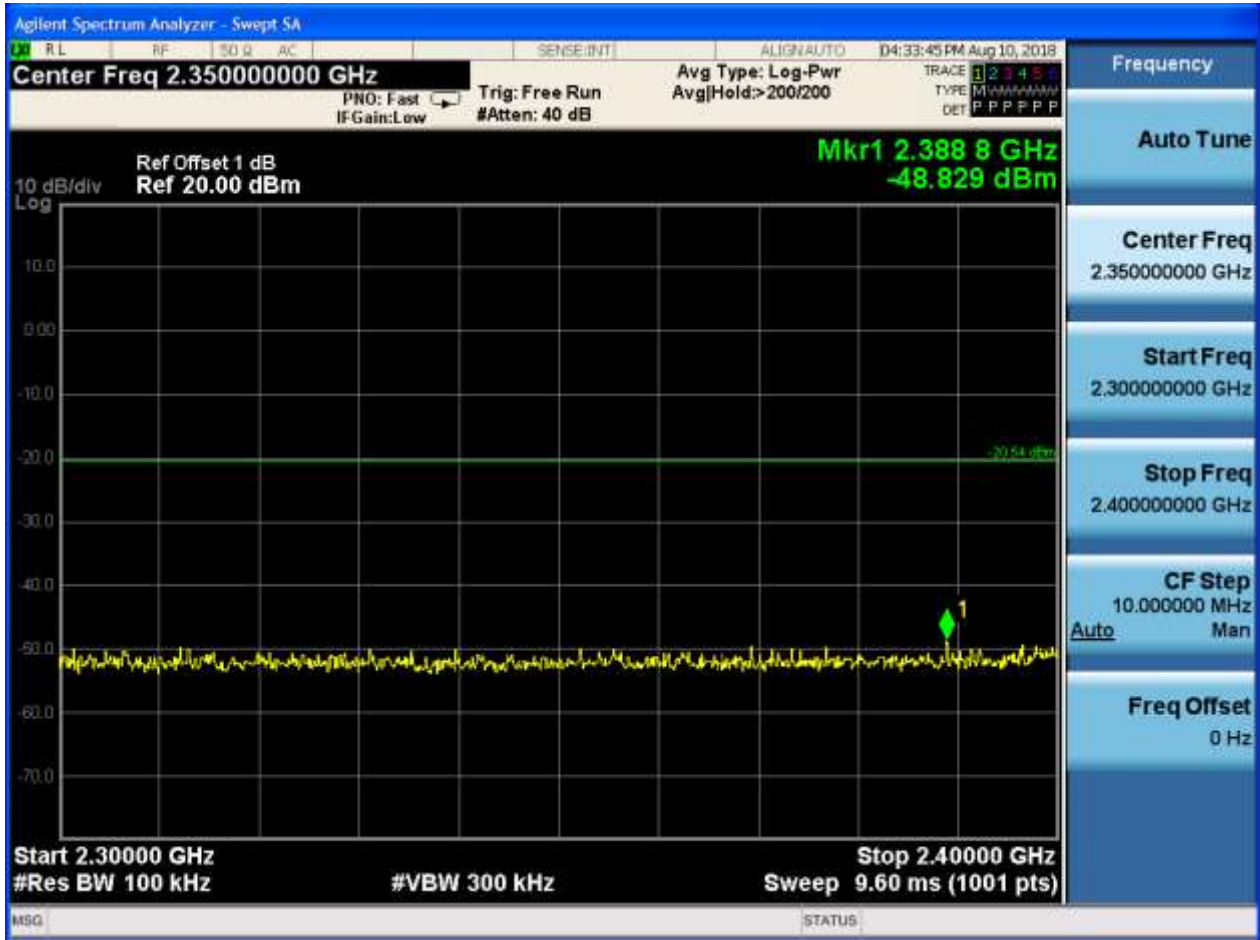


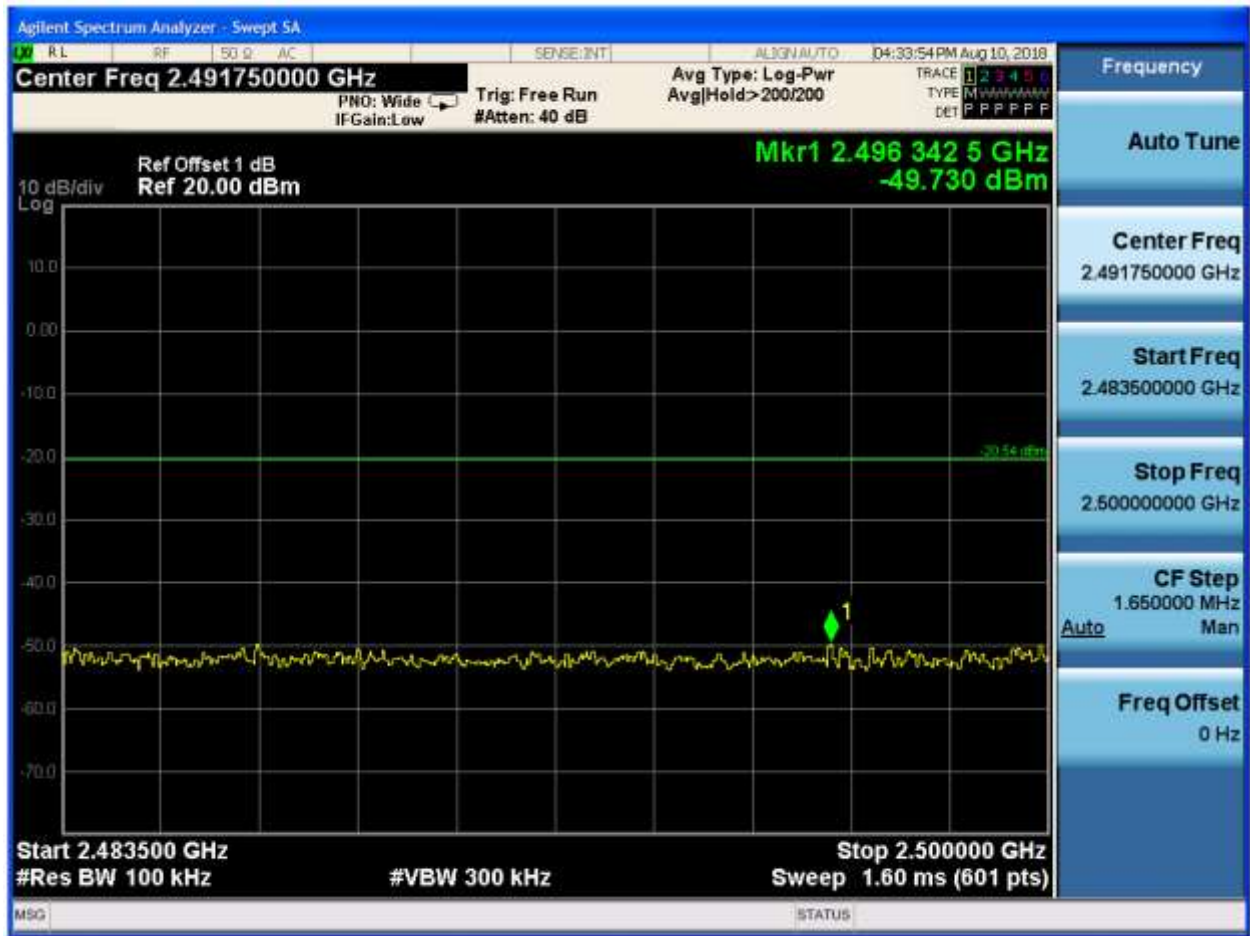


Puw:













2.5 11B_H_2462@Ant 1

Pref:





Puw:

