



Appendix for Testreport

Appendix A: DTS (6 dB) Bandwidth

In this document, the "DTS6dBBW" refers to the measured "DTS (6 dB) Bandwidth" value. In this Appendix, the "fc(DTS6dBBW)" refers to the centre of the measured "DTS6dBBW". The introduction of the "fc(DTS6dBBW)" is due to that other measurements use it as the spectrum analyzer setting.

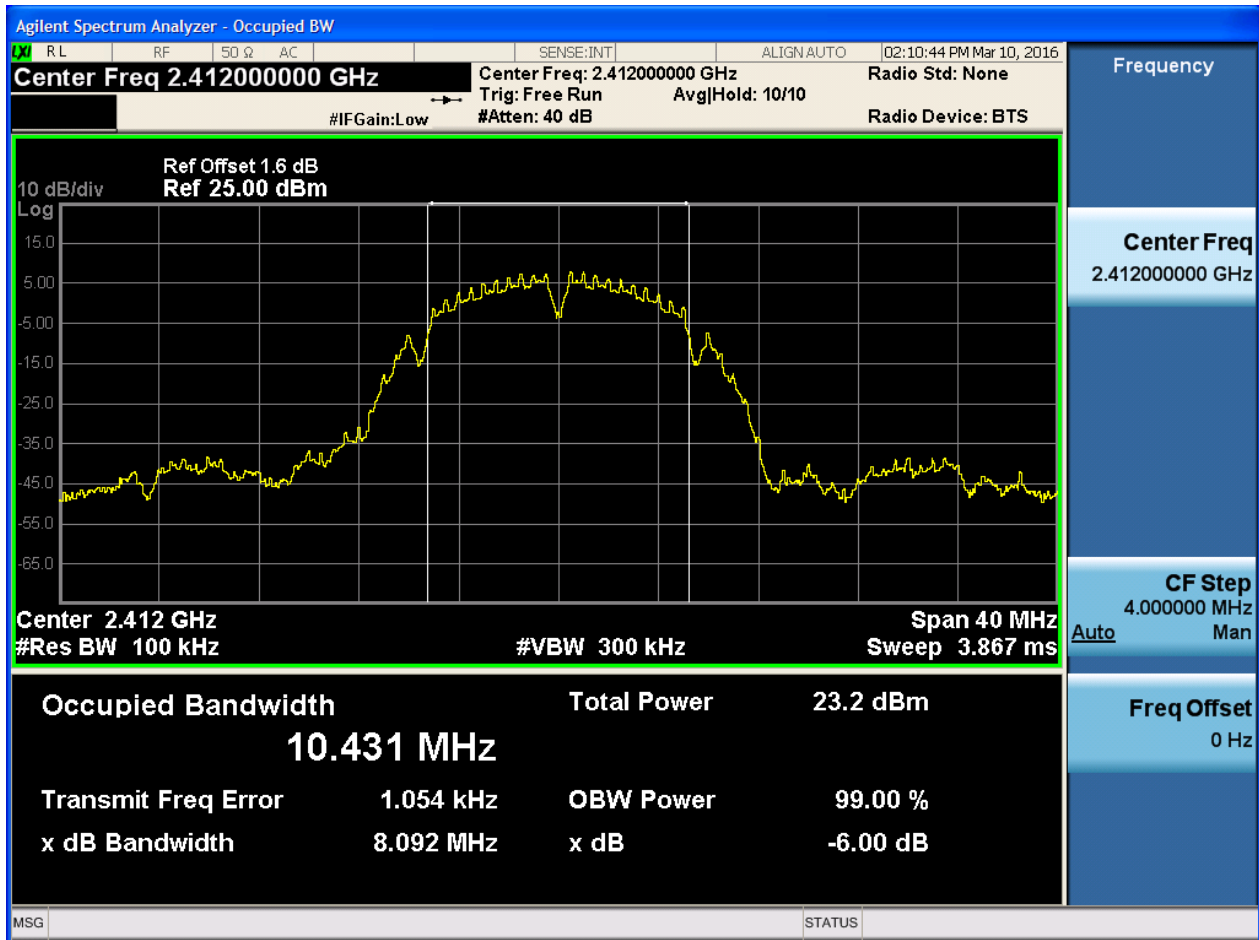
For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	DTS6dBBW[MHz]	Verdict
11B	L	2412	Ant 1	8.09	pass
11B	L	2412	Ant 2	8.09	pass
11B	M	2437	Ant 1	8.06	pass
11B	M	2437	Ant 2	8.09	pass
11B	H	2462	Ant 1	8.10	pass
11B	H	2462	Ant 2	8.10	pass
11G	L	2412	Ant 1	16.40	pass
11G	L	2412	Ant 2	16.41	pass
11G	M	2437	Ant 1	16.41	pass
11G	M	2437	Ant 2	16.41	pass
11G	H	2462	Ant 1	16.42	pass
11G	H	2462	Ant 2	16.37	pass
11N20	L	2412	Ant 1	17.64	pass
11N20	L	2412	Ant 2	17.64	pass
11N20	M	2437	Ant 1	17.62	pass
11N20	M	2437	Ant 2	17.62	pass
11N20	H	2462	Ant 1	17.62	pass
11N20	H	2462	Ant 2	17.64	pass
11N20m	L	2412	Ant 1	17.64	pass
11N20m	L	2412	Ant 2	17.64	pass
11N20m	M	2437	Ant 1	17.63	pass
11N20m	M	2437	Ant 2	17.65	pass
11N20m	H	2462	Ant 1	17.62	pass
11N20m	H	2462	Ant 2	17.65	pass

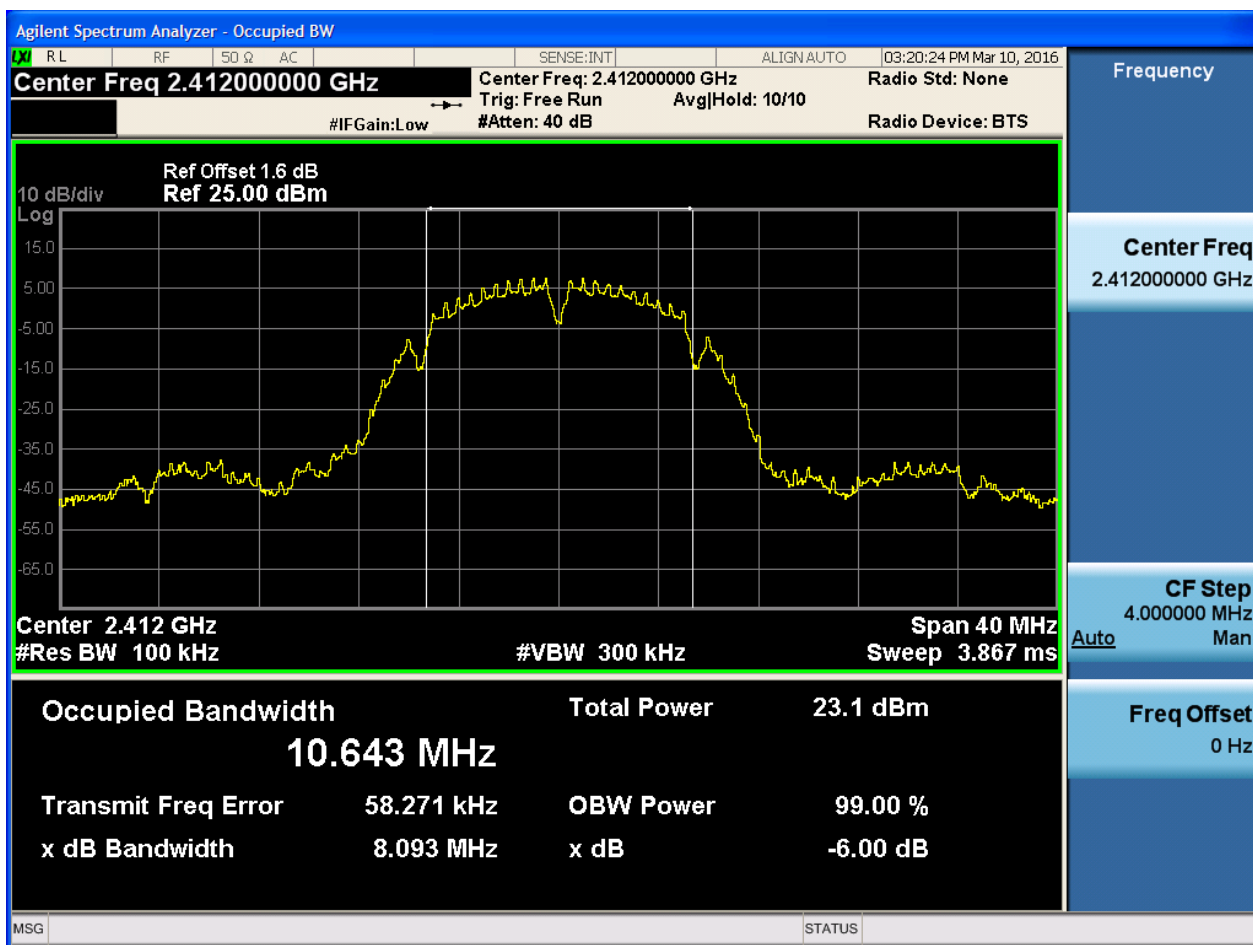
Part II - Test Plots

2.1 11B_L@Ant 1



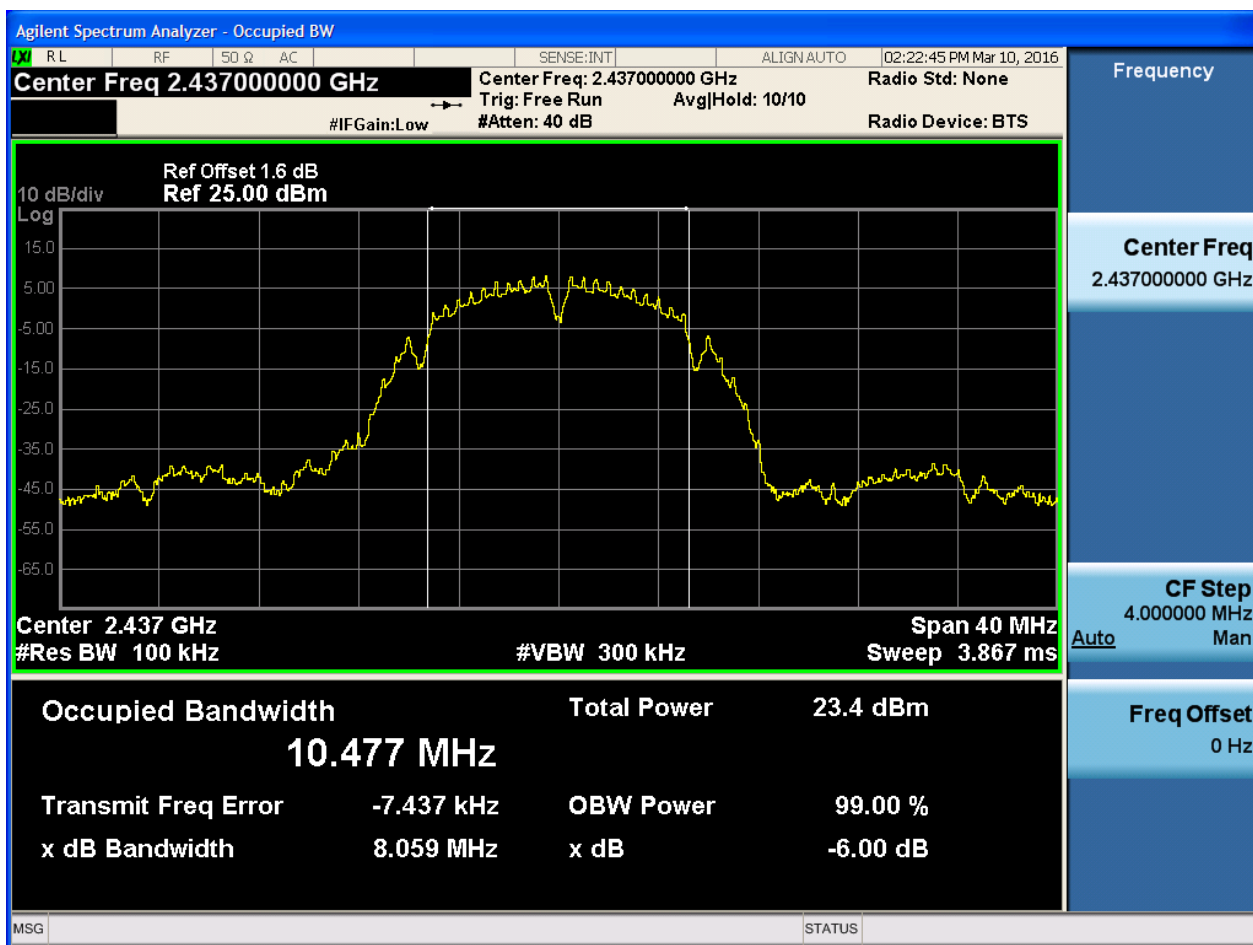


2.2 11B_L@Ant 2



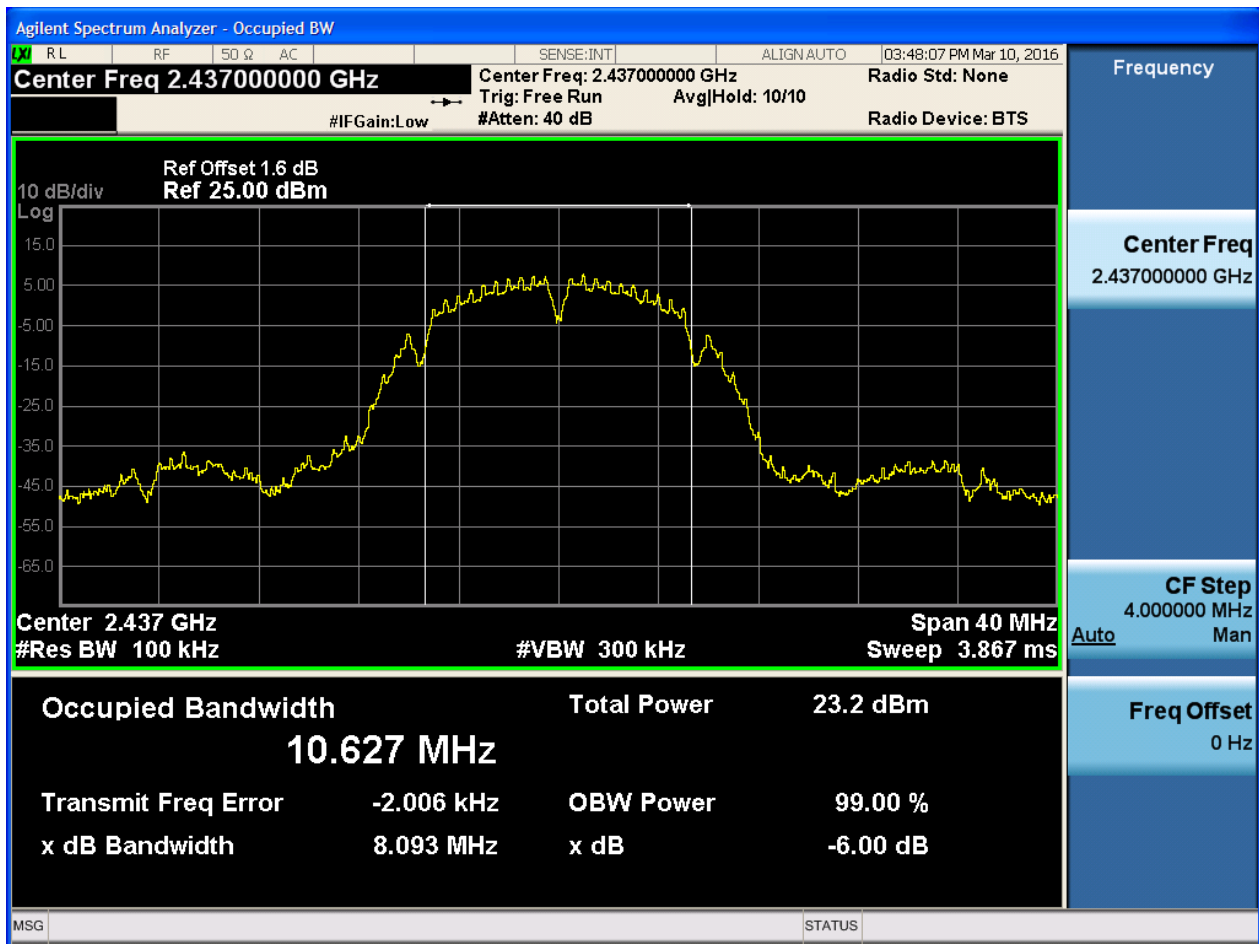


2.3 11B_M@Ant 1



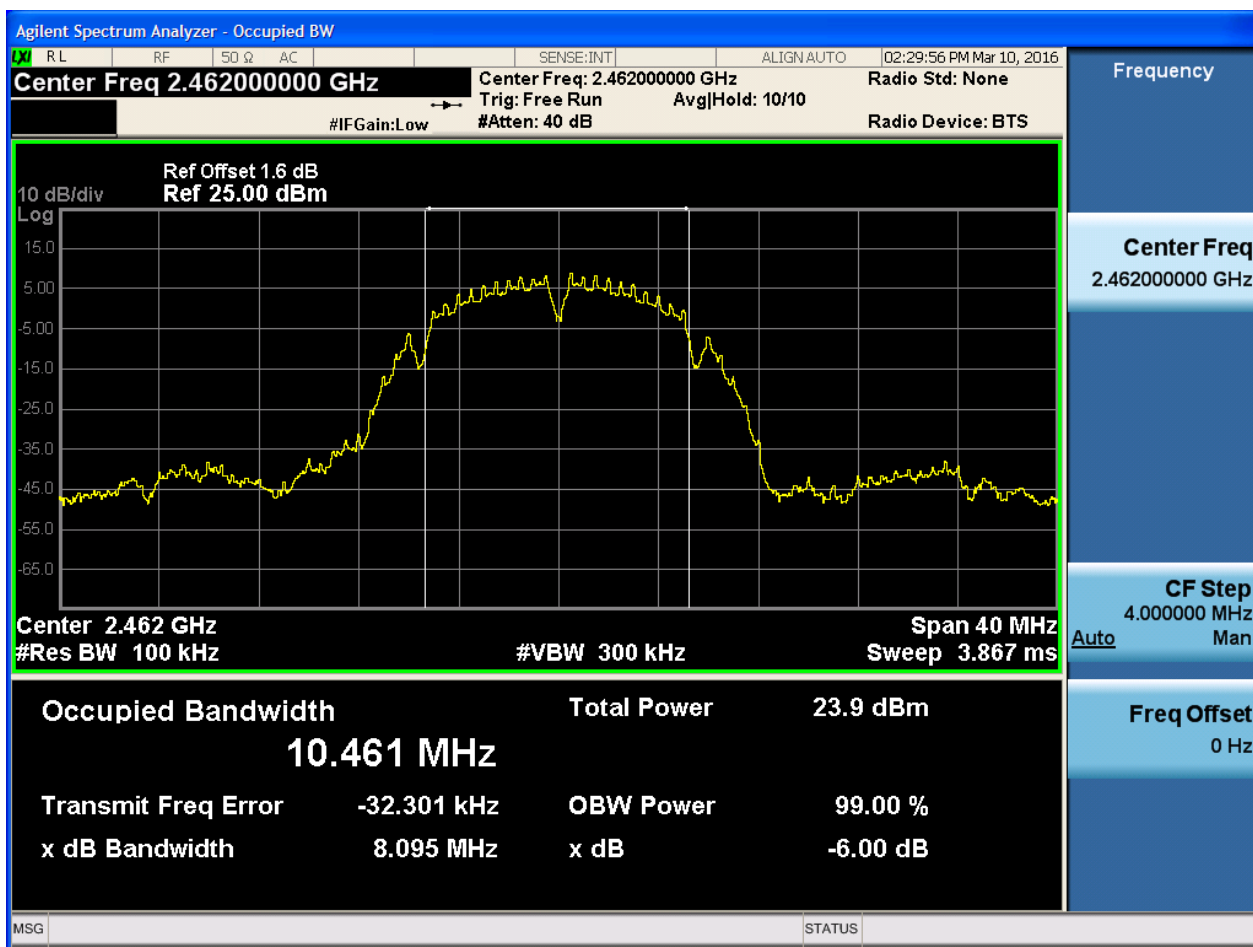


2.4 11B_M@Ant 2



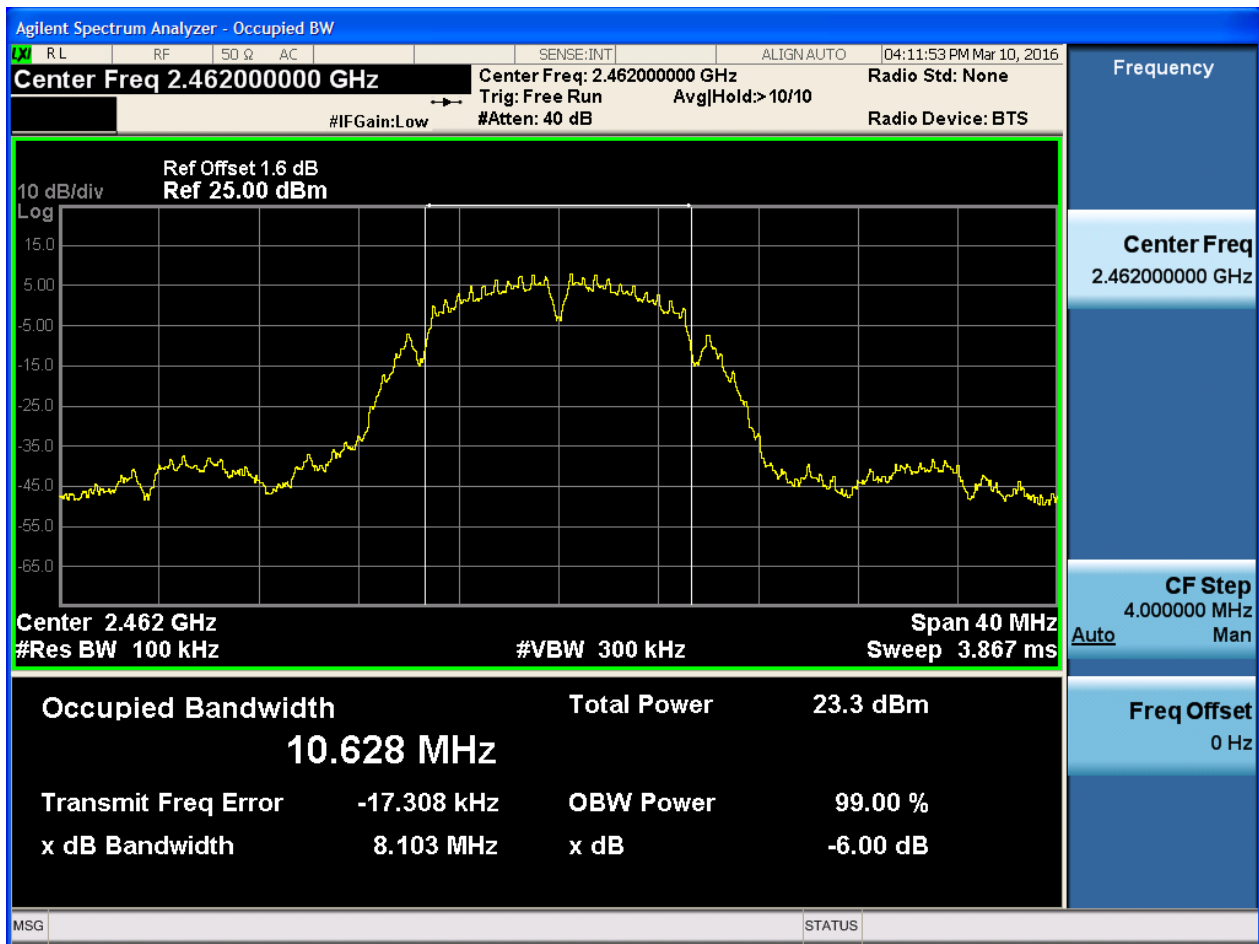


2.5 11B_H@Ant 1



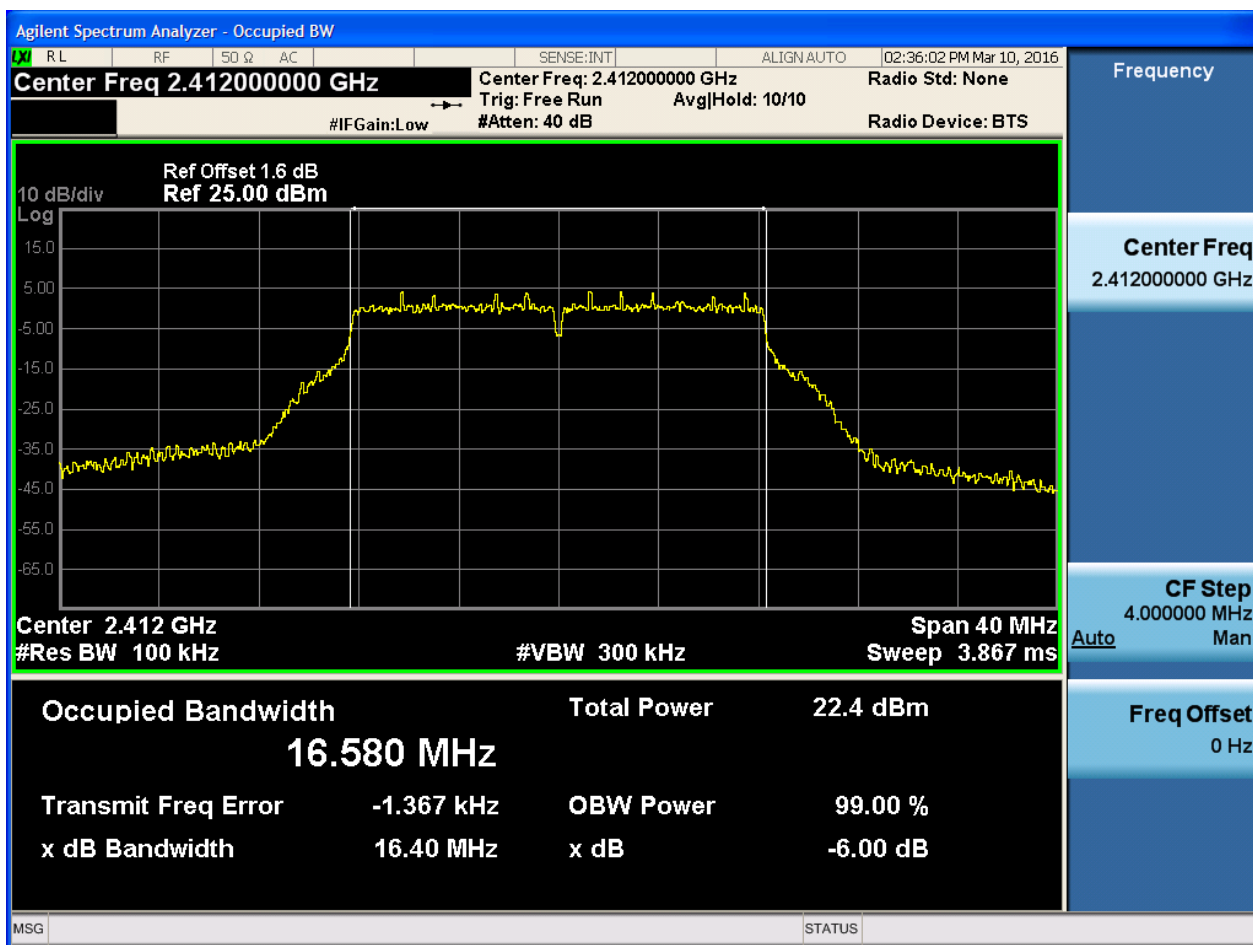


2.6 11B_H@Ant 2



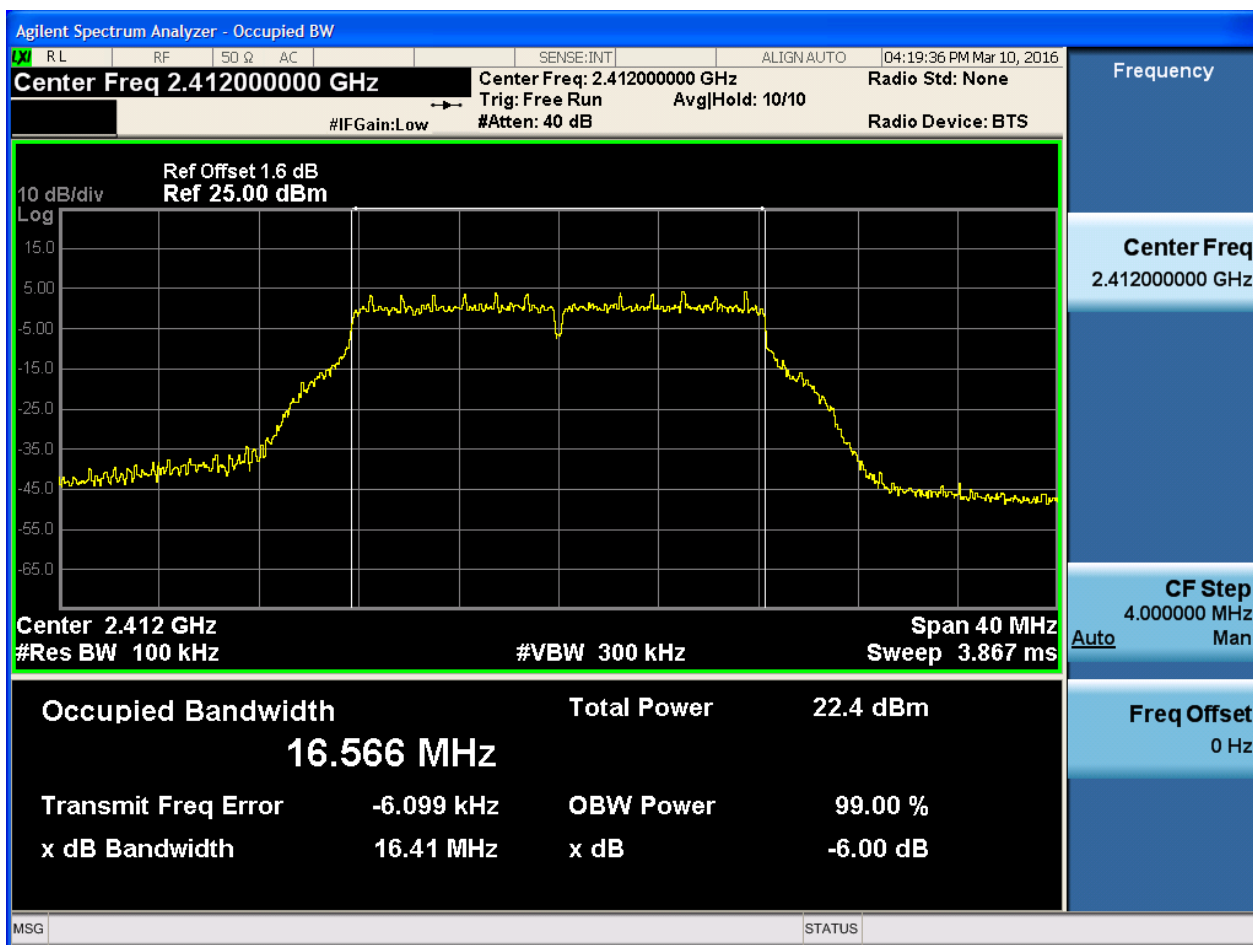


2.7 11G_L@Ant 1



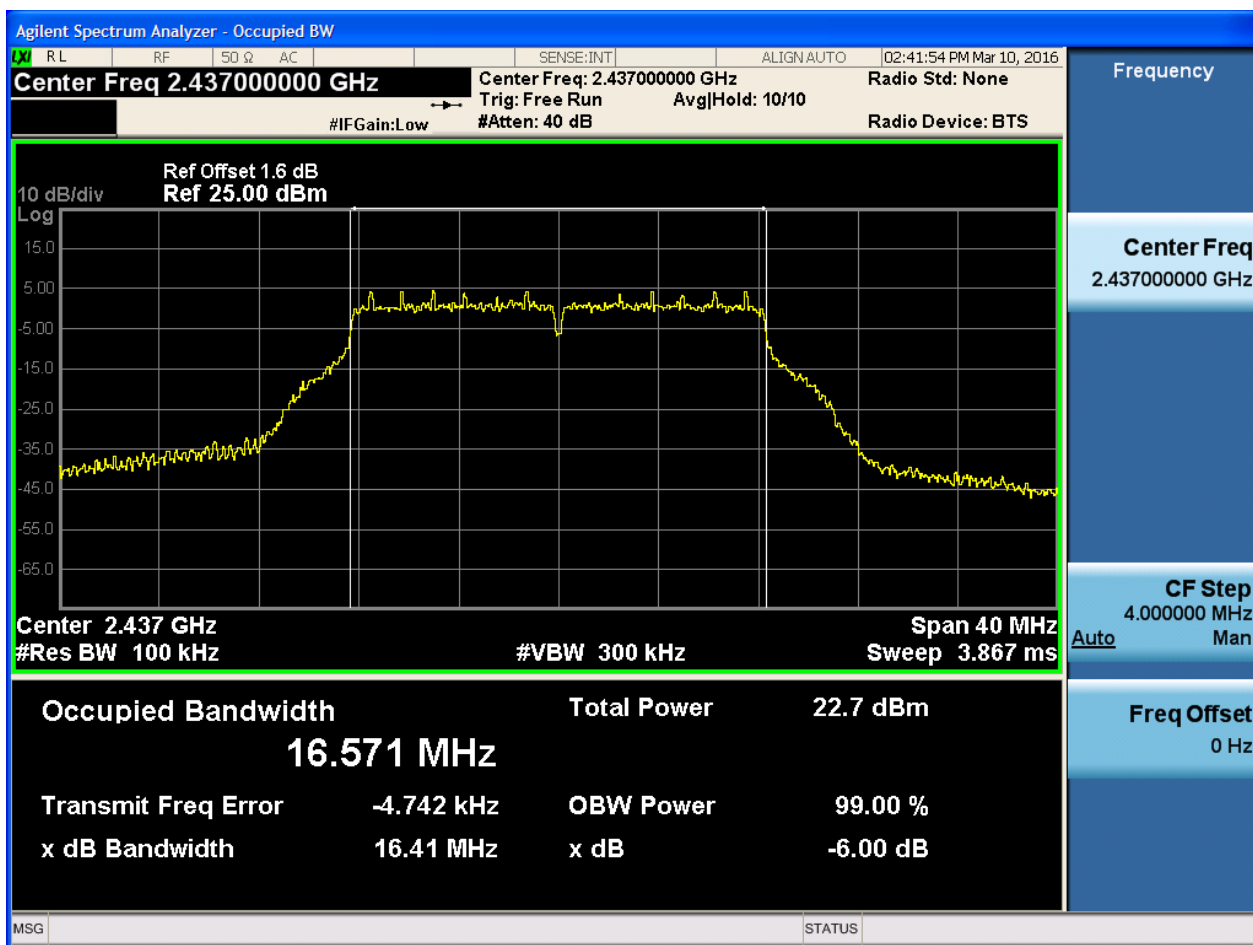


2.8 11G_L@Ant 2



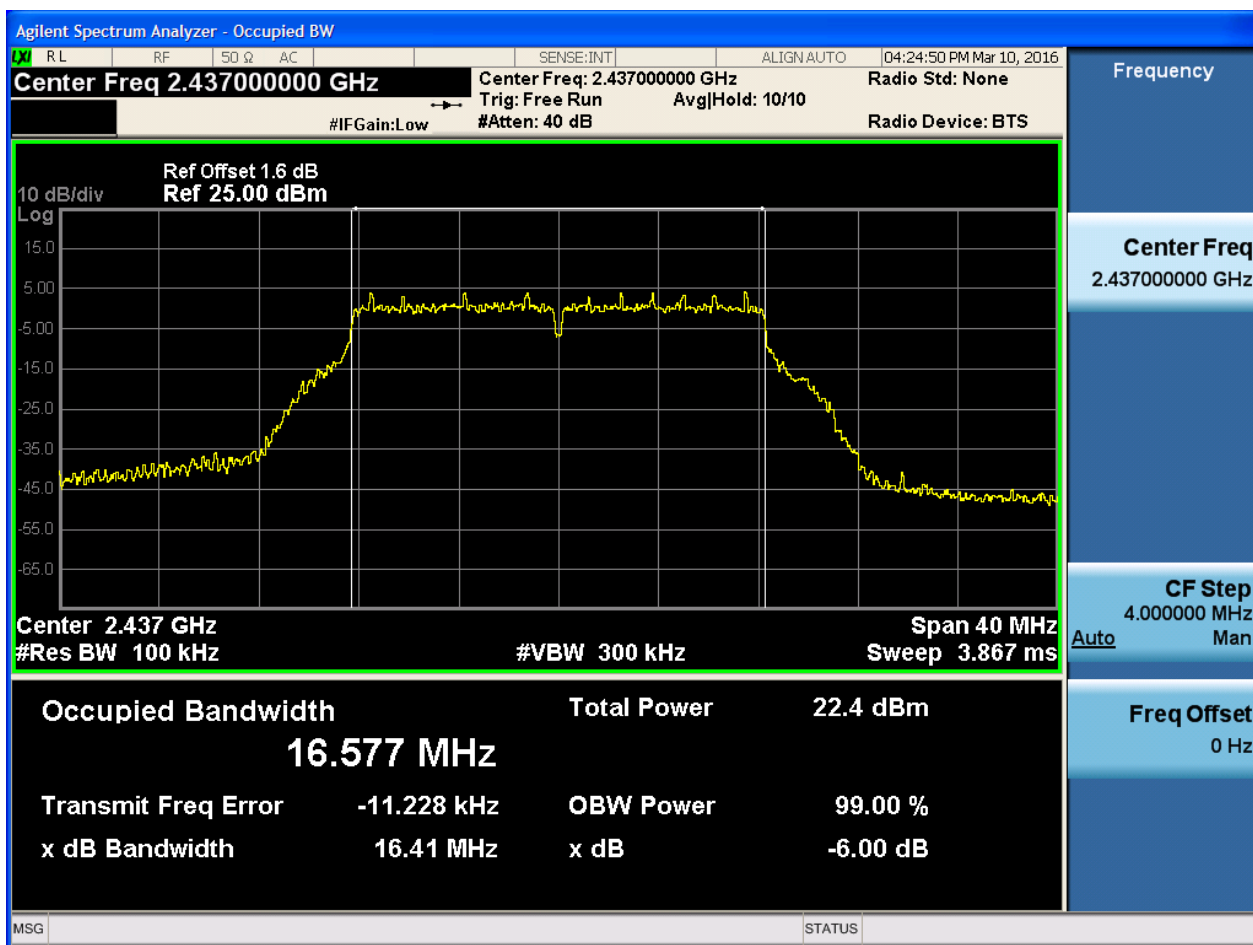


2.9 11G_M@Ant 1



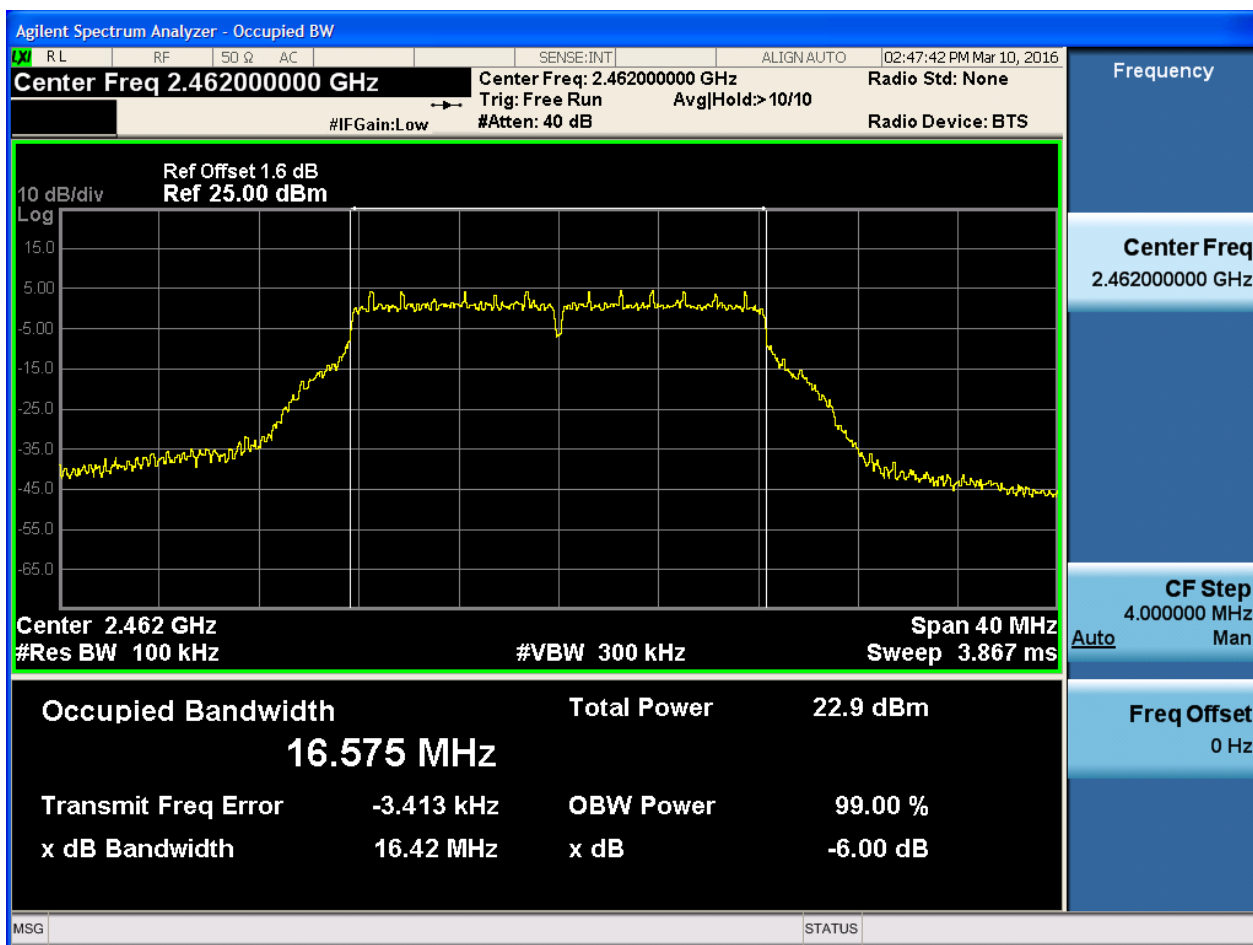


2.10 11G_M@Ant 2



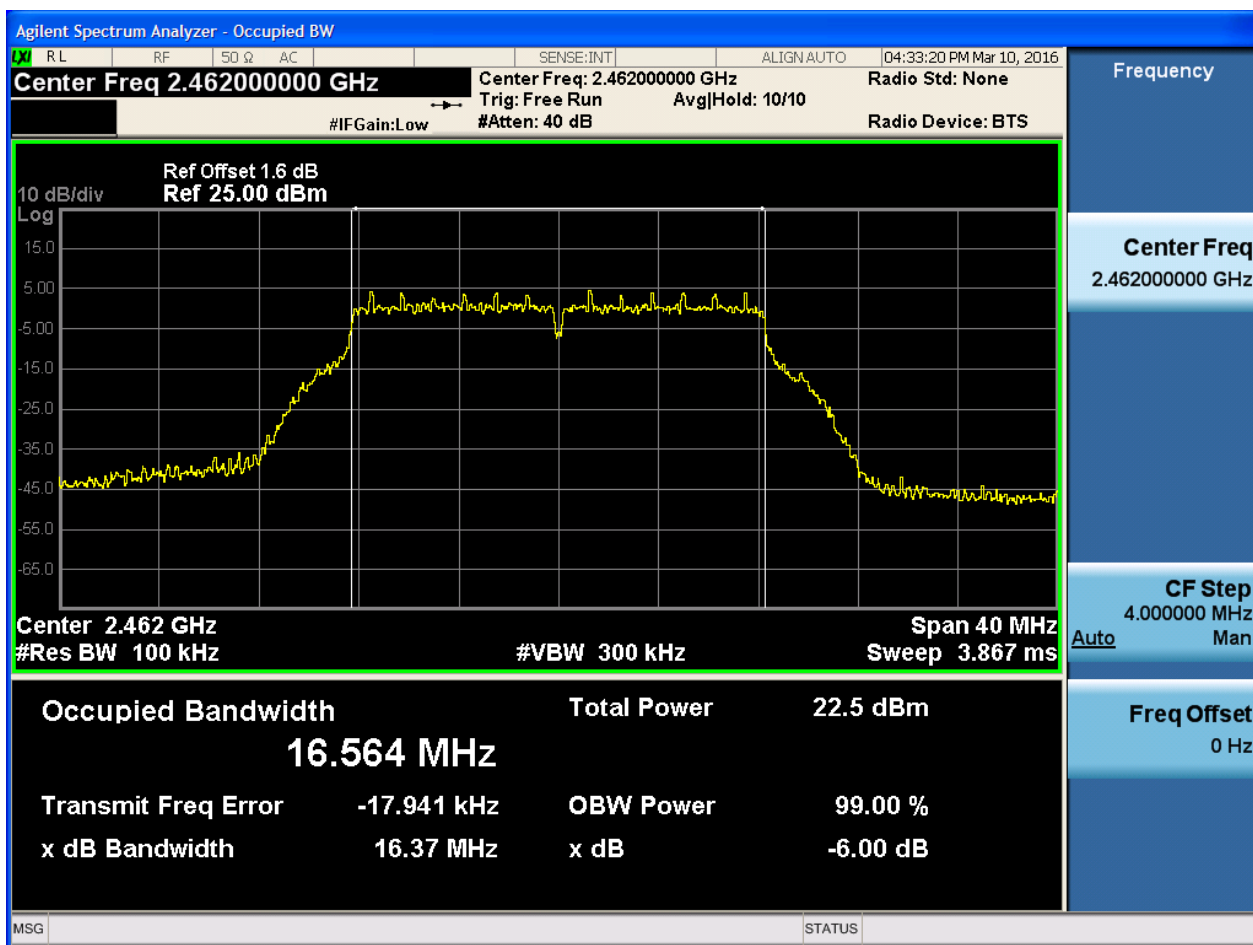


2.11 11G_H@Ant 1



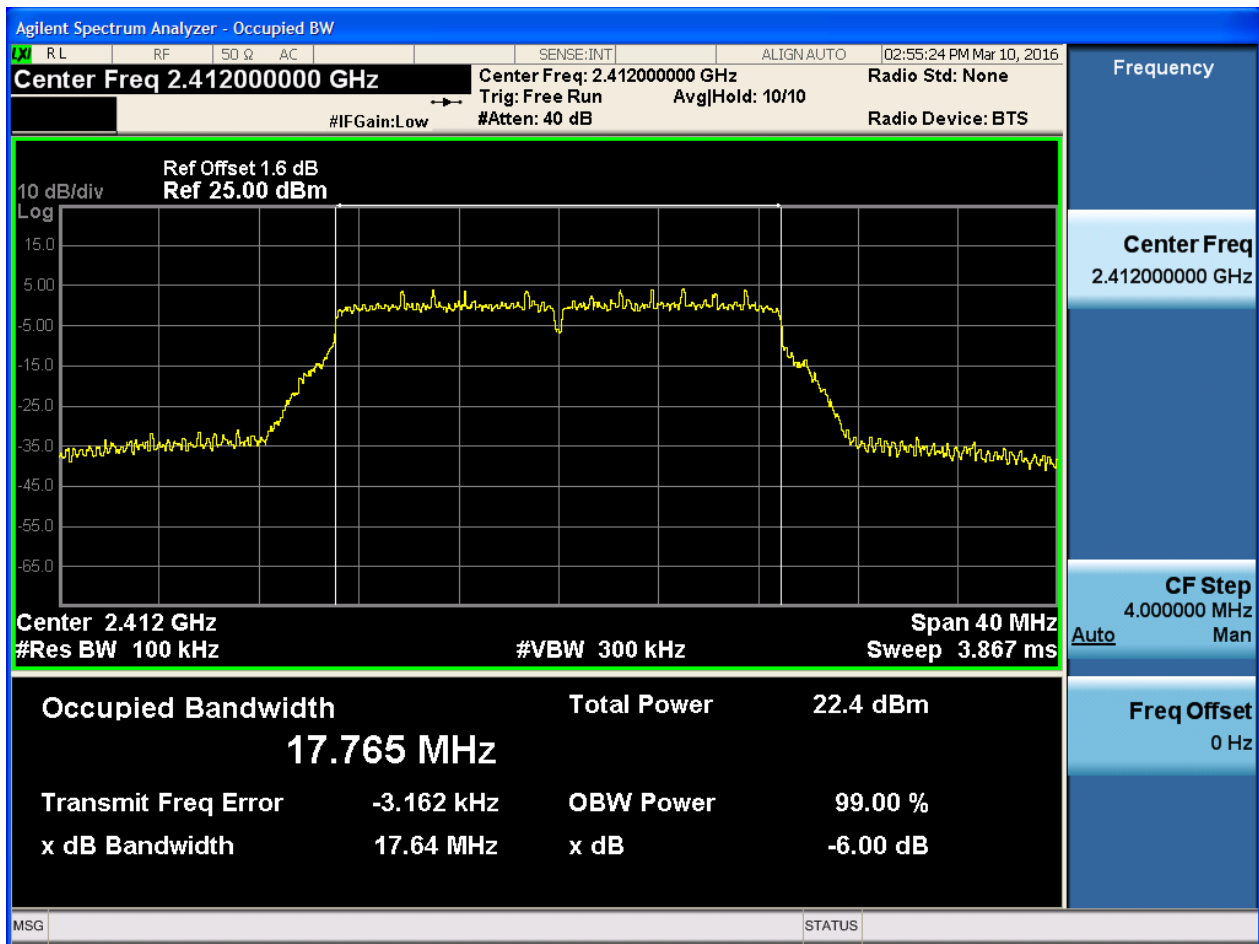


2.12 11G_H@Ant 2



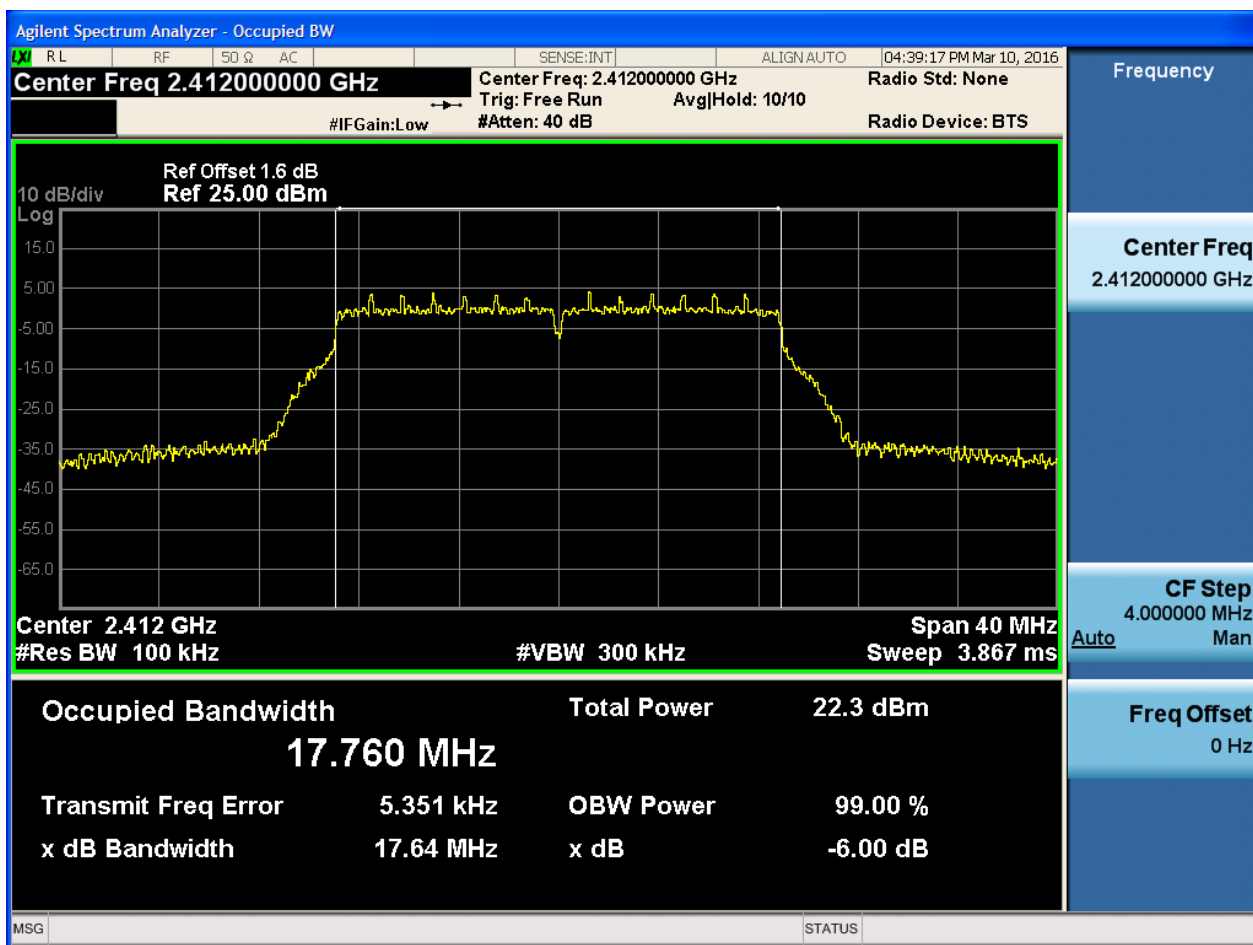


2.13 11N20_L@Ant 1



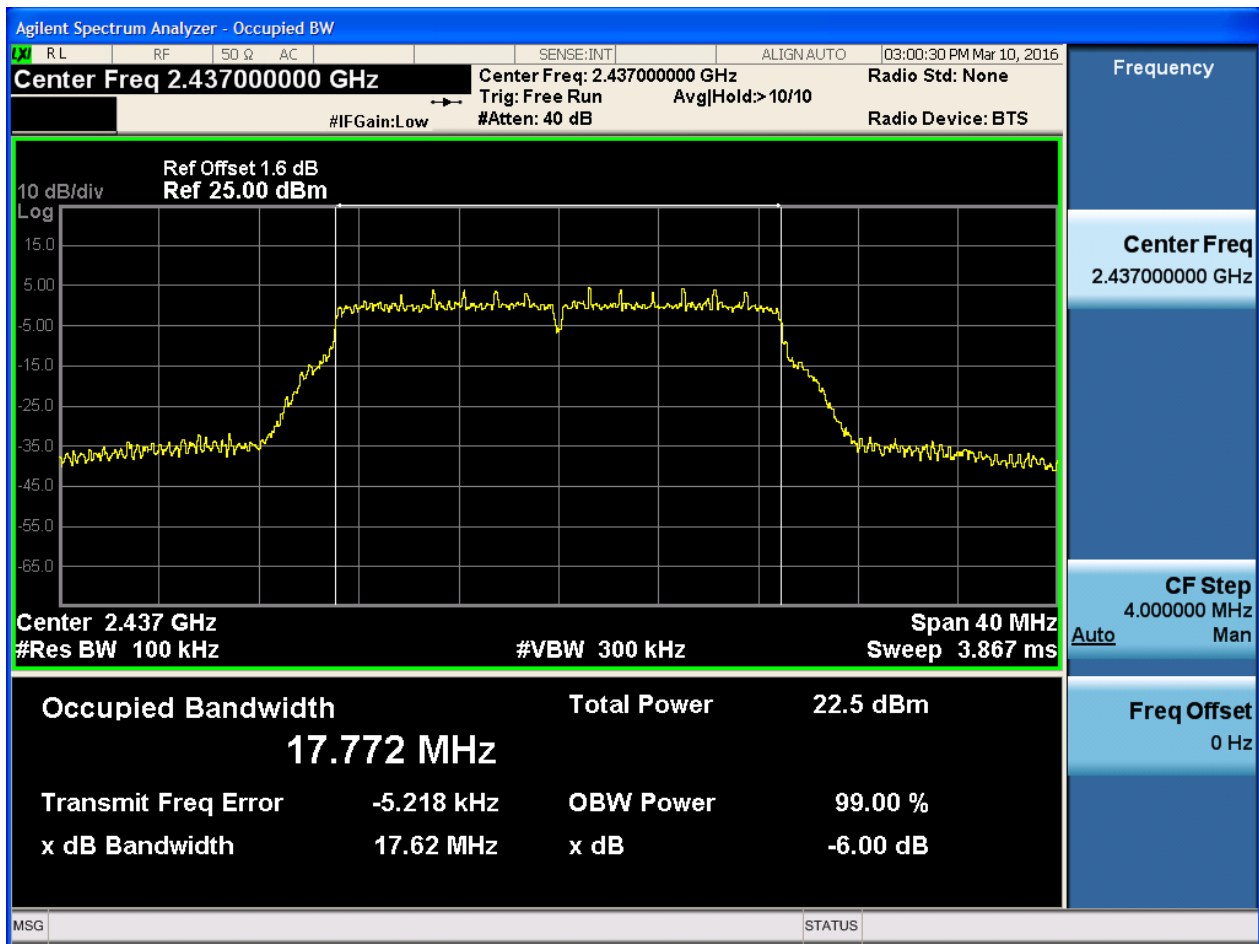


2.14 11N20_L@Ant 2



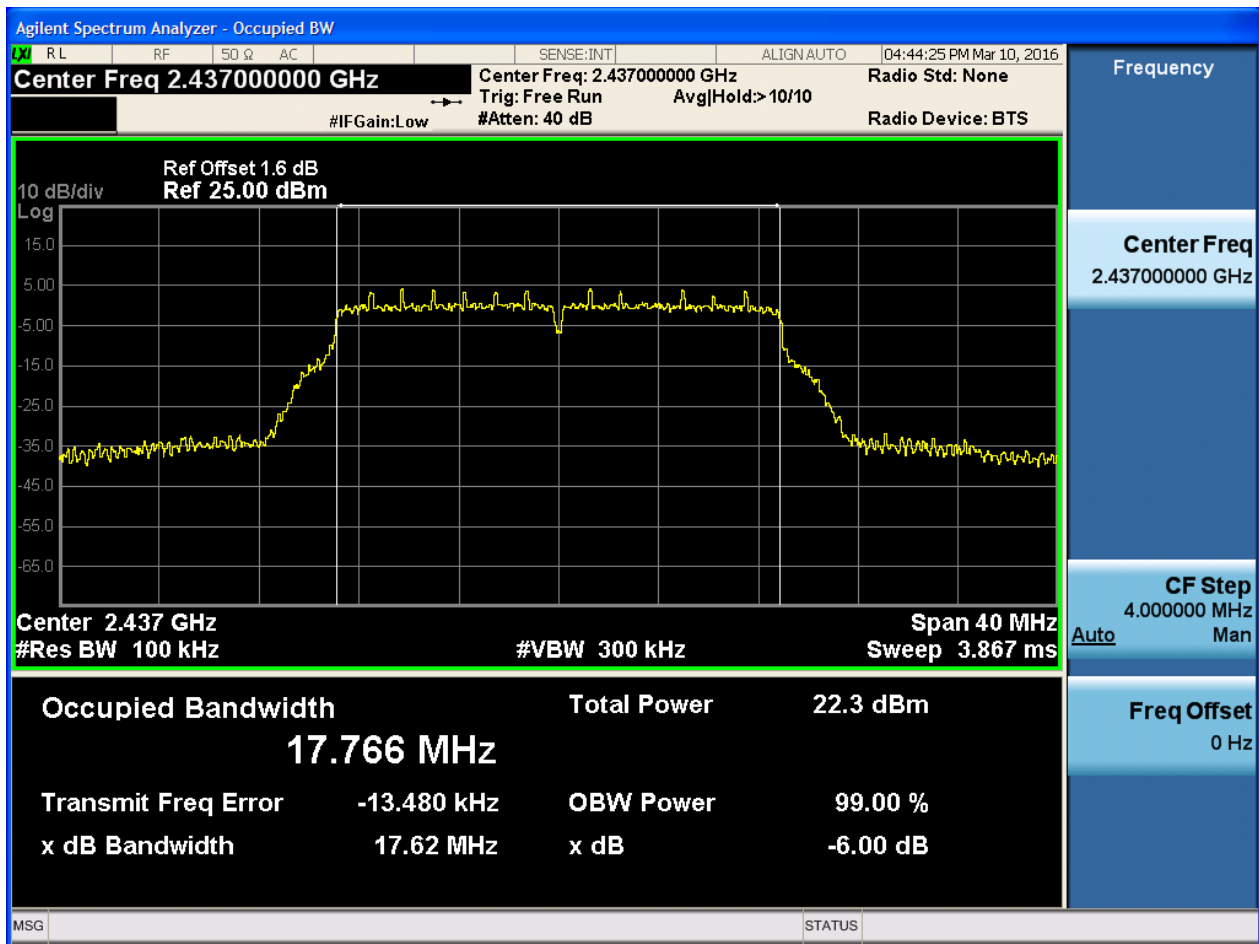


2.15 11N20_M@Ant 1



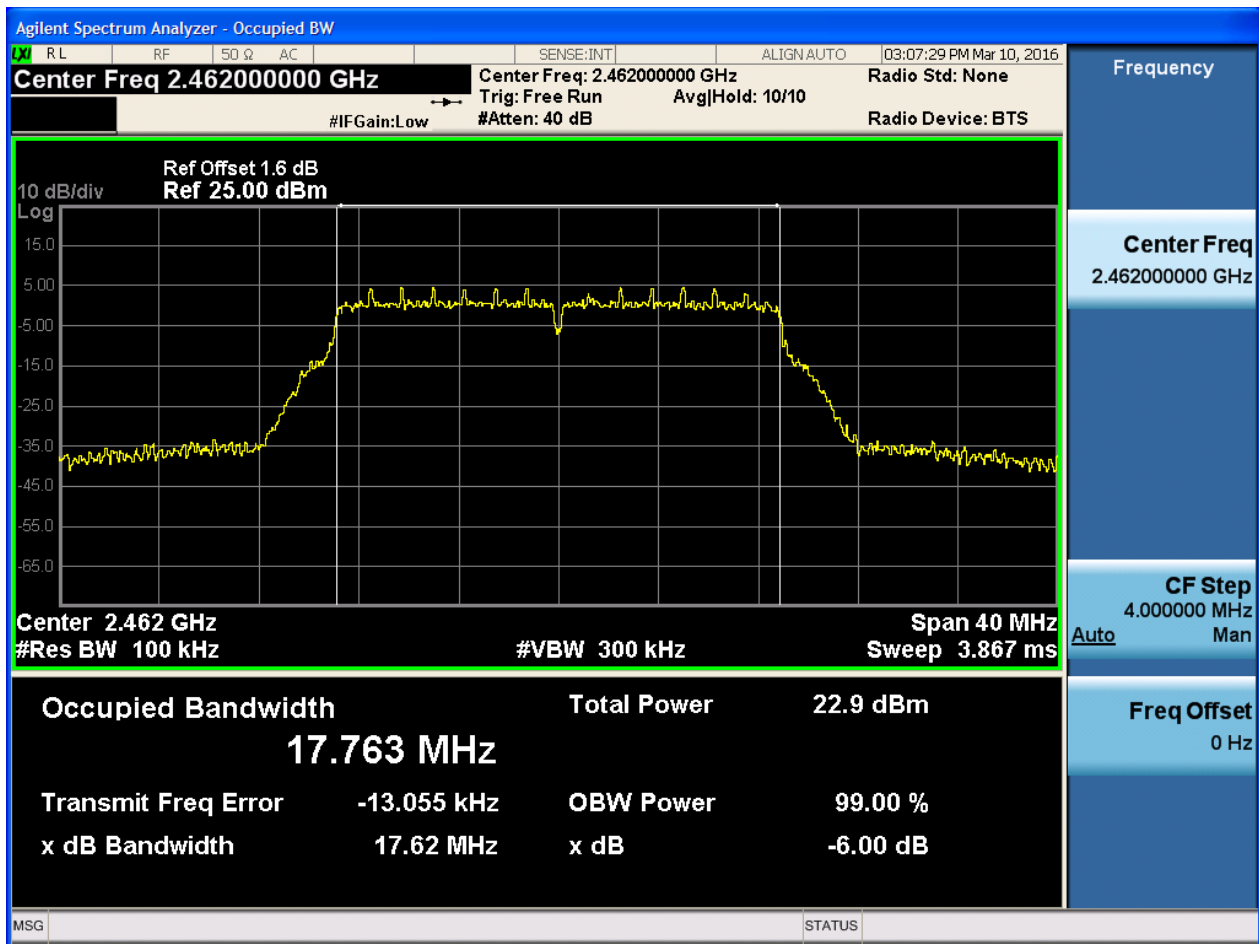


2.16 11N20_M@Ant 2



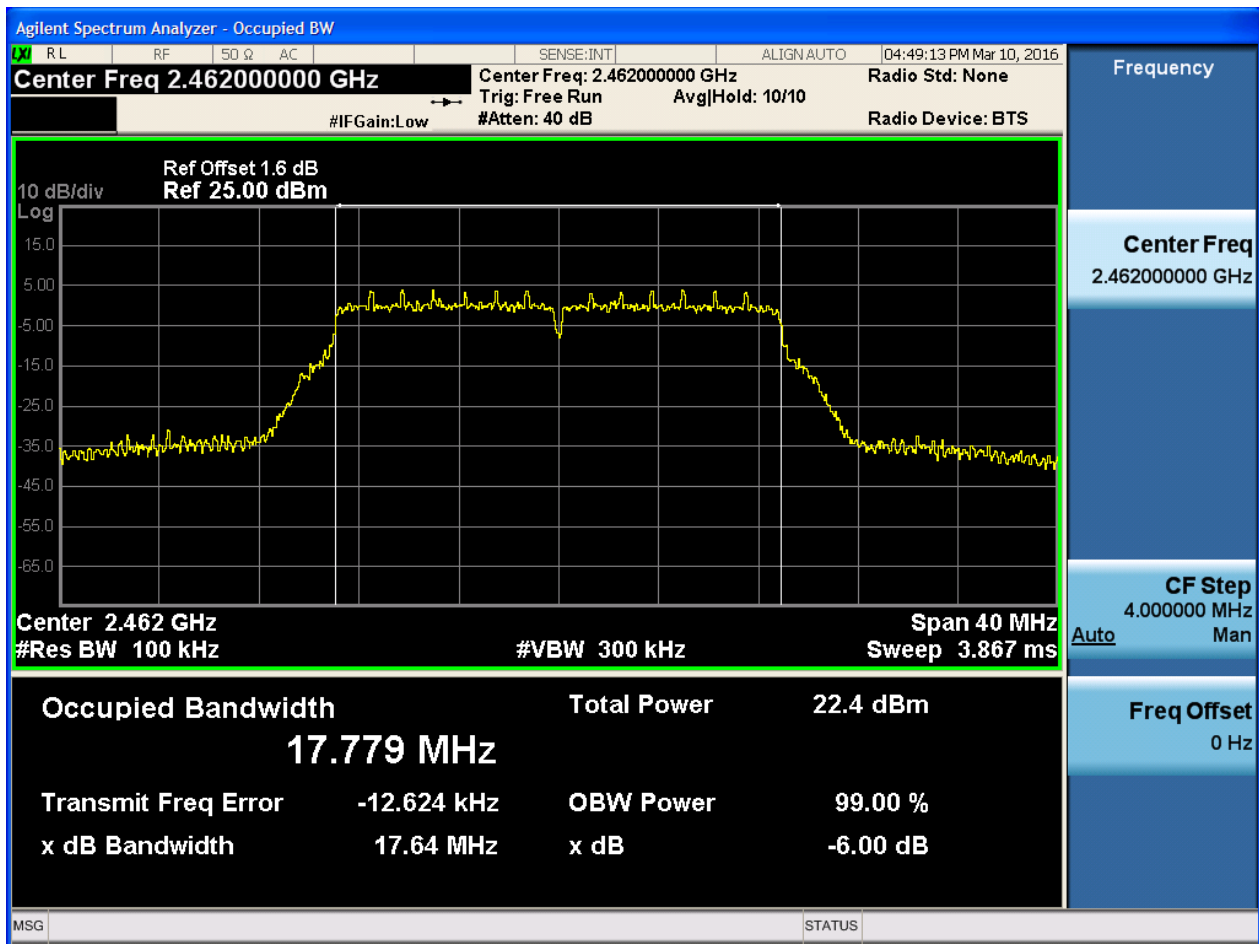


2.17 11N20_H@Ant 1



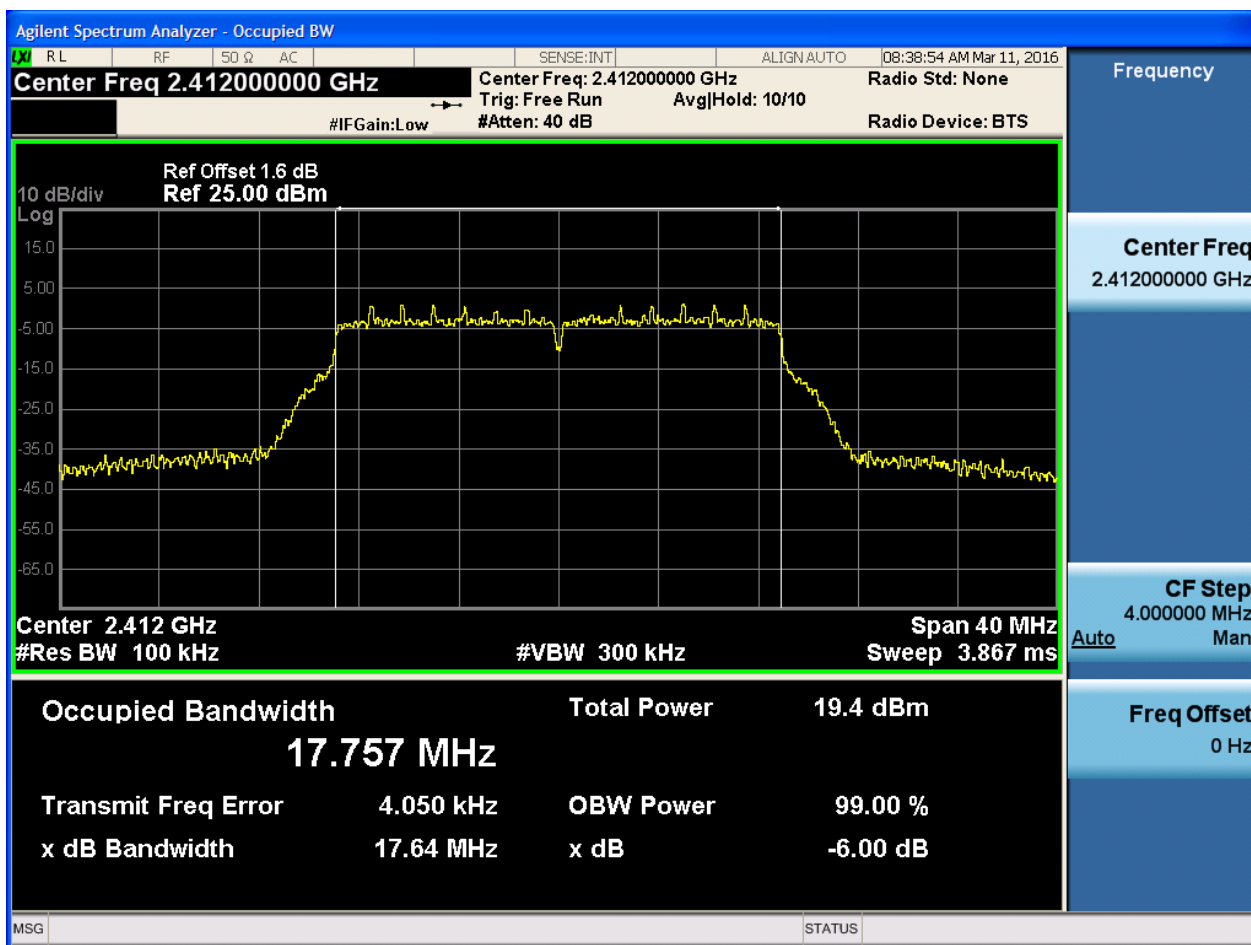


2.18 11N20_H@Ant 2



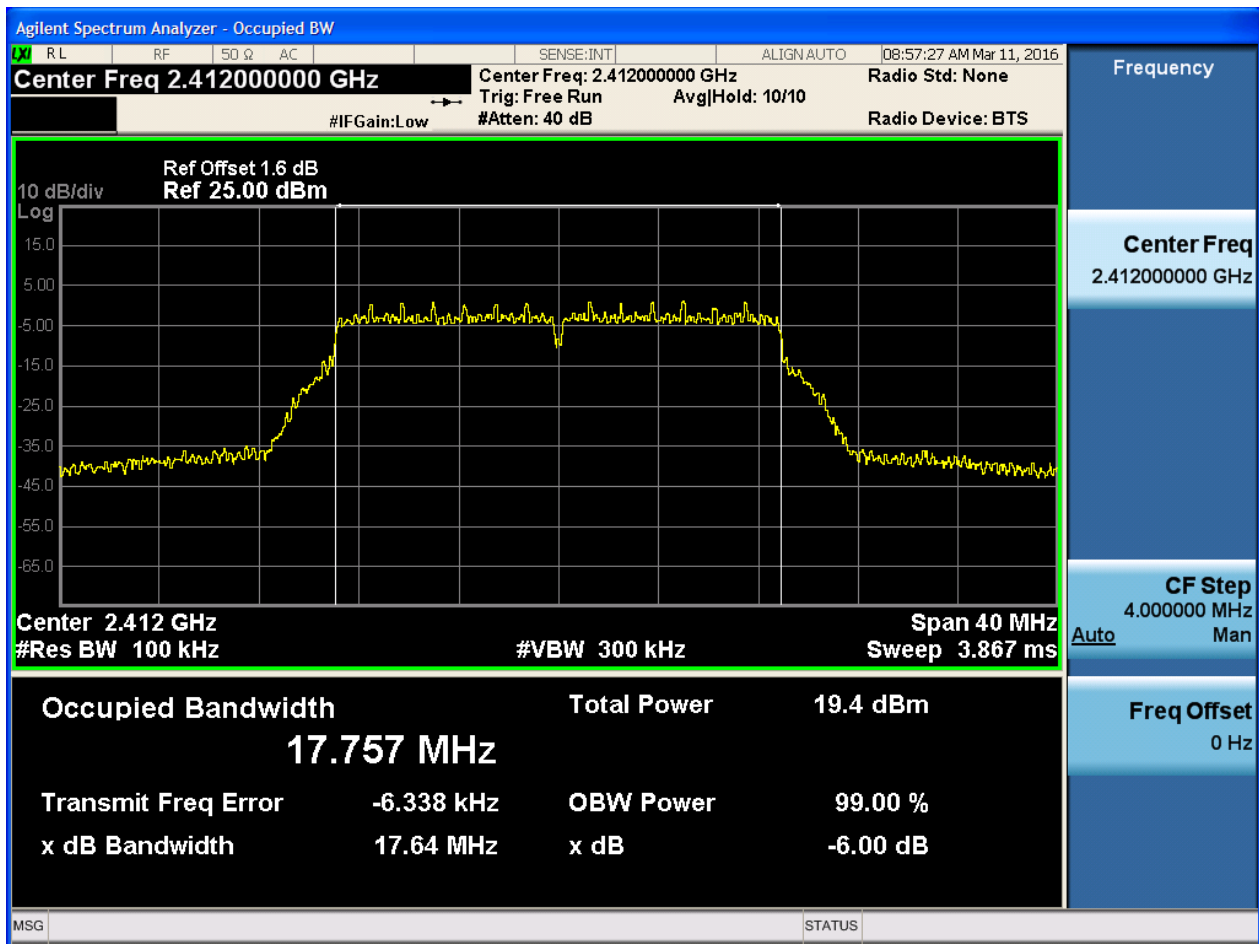


2.19 11N20m_L@Ant 1



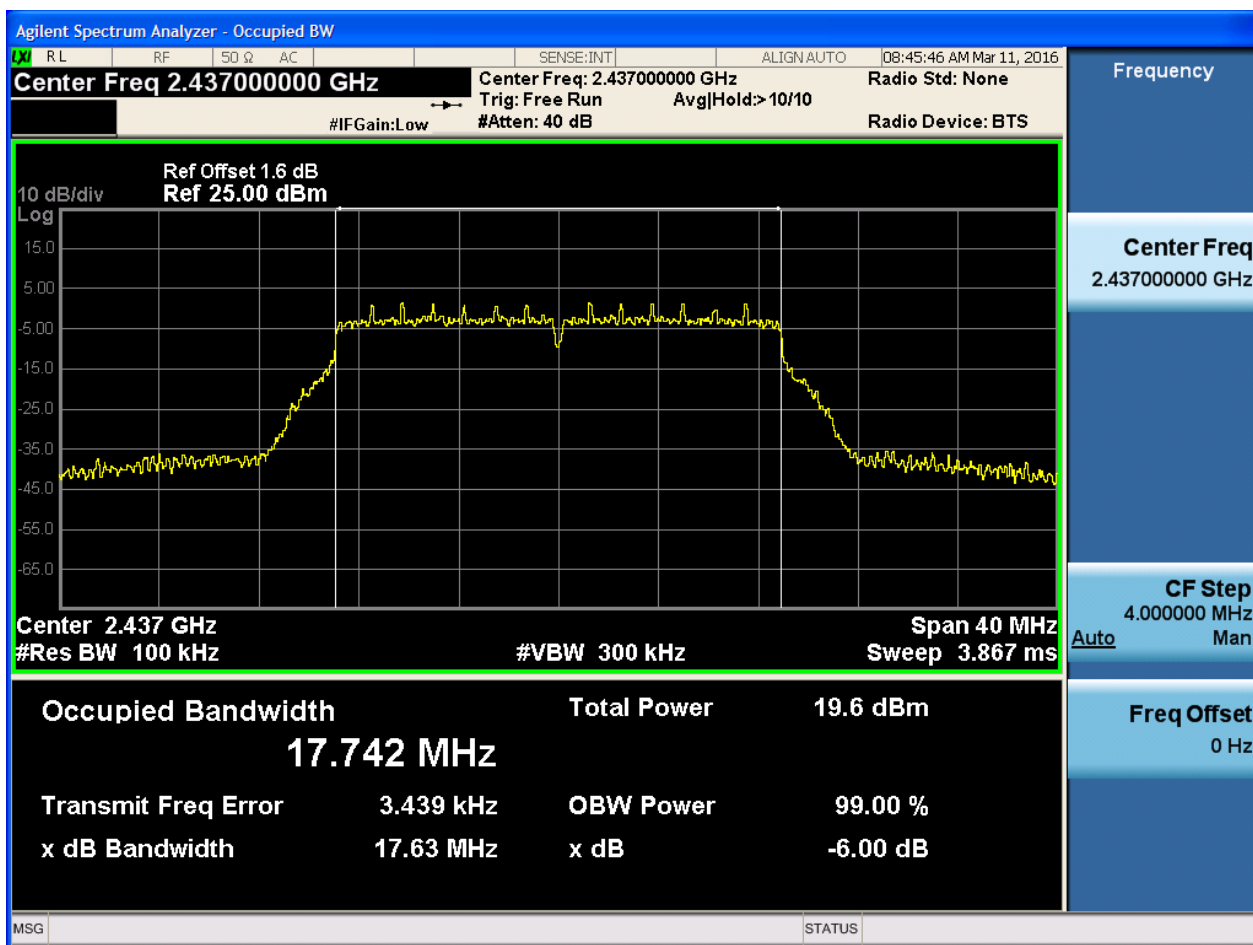


2.20 11N20m_L@Ant 2



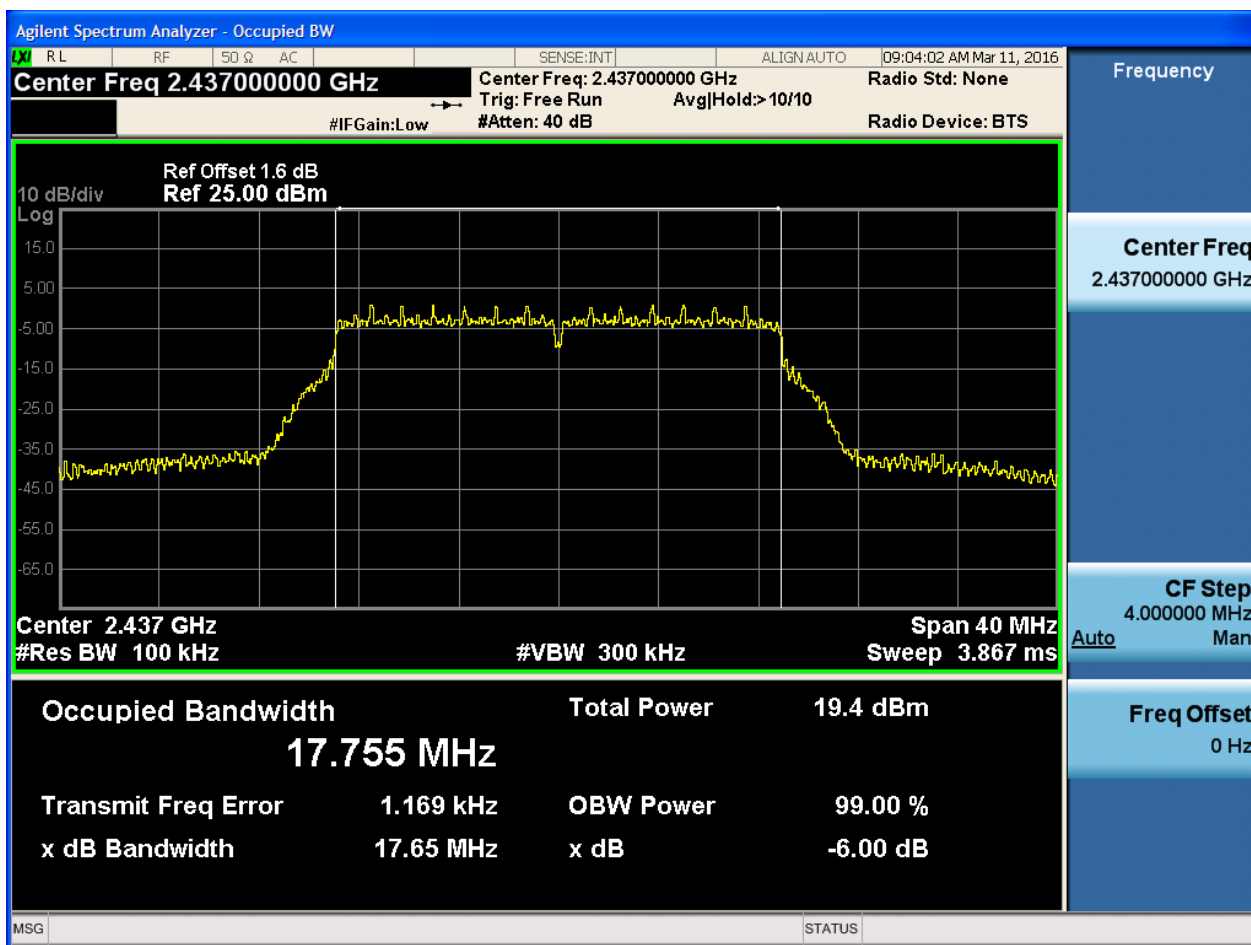


2.21 11N20m_M@Ant 1



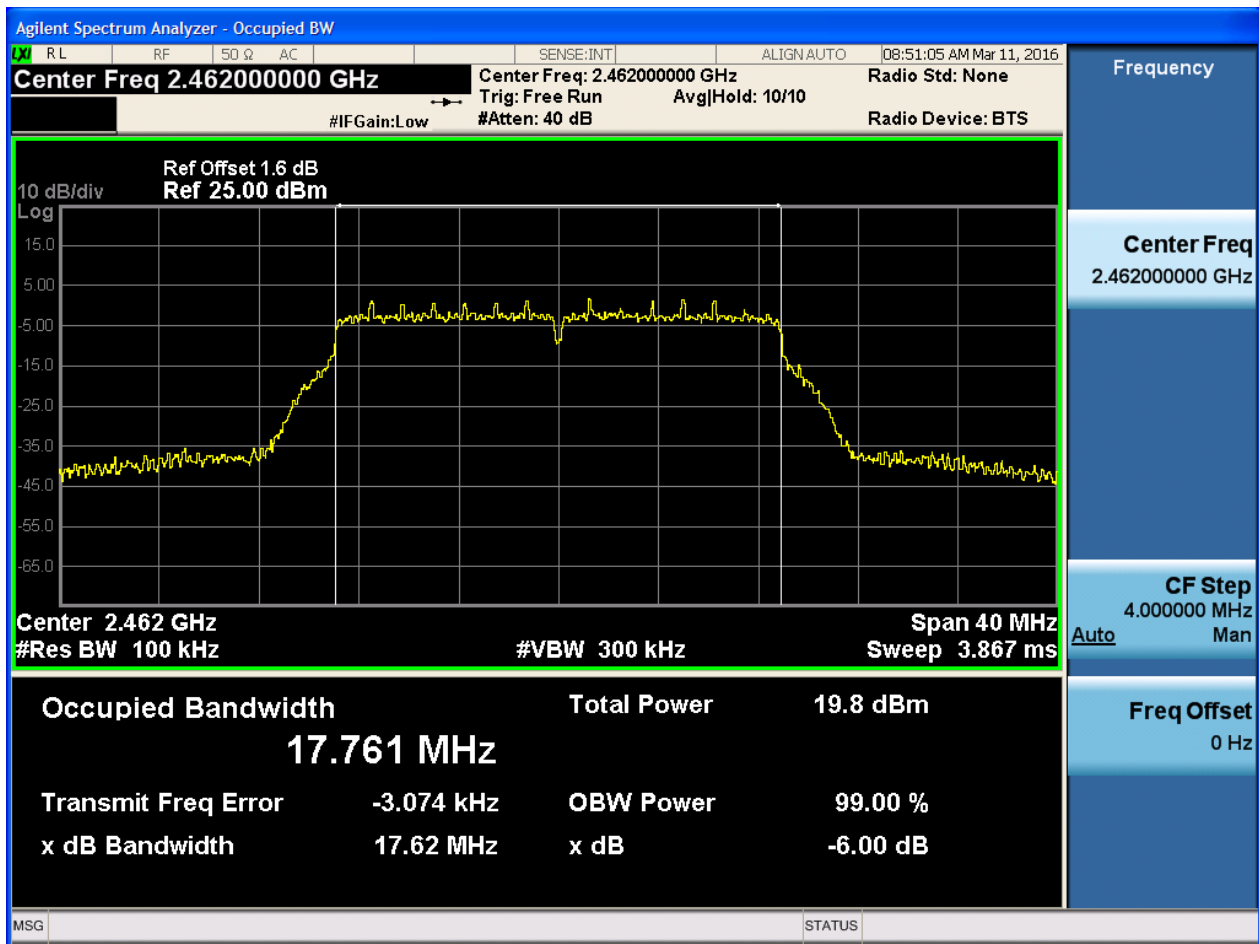


2.22 11N20m_M@Ant 2



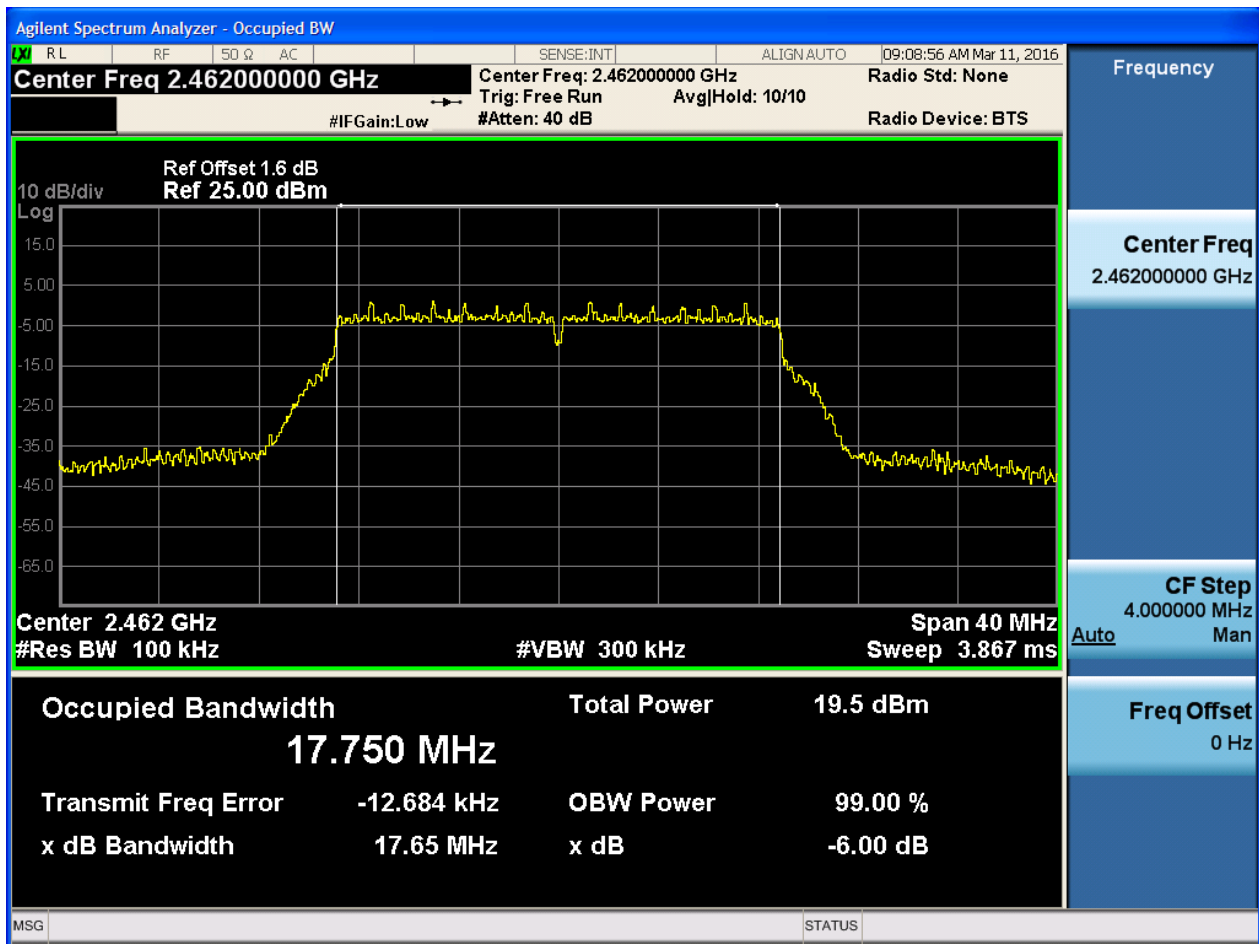


2.23 11N20m_H@Ant 1





2.24 11N20m_H@Ant 2



Appendix B: Occupied Bandwidth

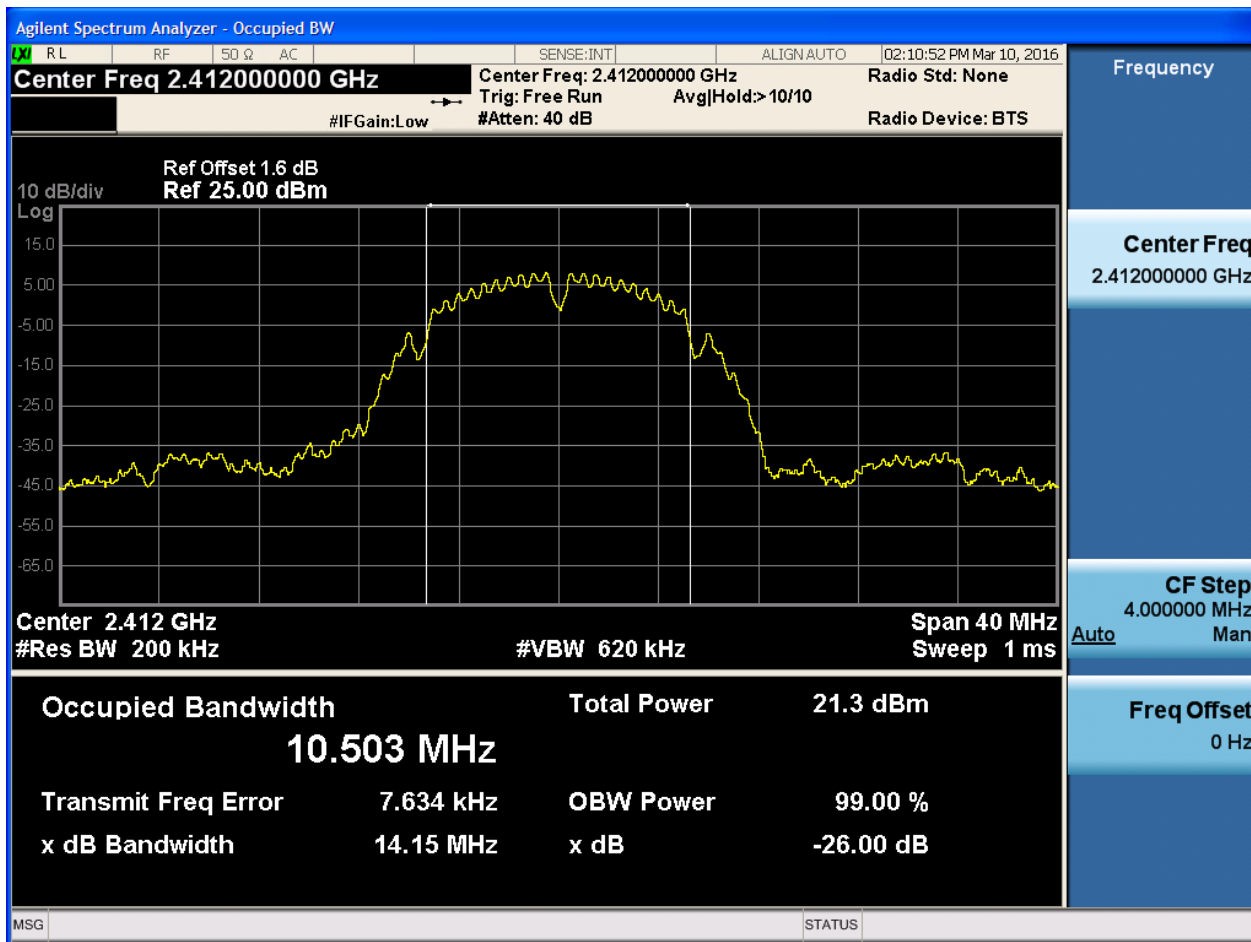
For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Occupied Bandwidth [MHz]	Verdict
11B	L	2412	Ant 1	10.50	pass
11B	L	2412	Ant 2	10.84	pass
11B	M	2437	Ant 1	10.53	pass
11B	M	2437	Ant 2	10.77	pass
11B	H	2462	Ant 1	10.53	pass
11B	H	2462	Ant 2	10.80	pass
11G	L	2412	Ant 1	16.84	pass
11G	L	2412	Ant 2	16.82	pass
11G	M	2437	Ant 1	16.83	pass
11G	M	2437	Ant 2	16.82	pass
11G	H	2462	Ant 1	16.81	pass
11G	H	2462	Ant 2	16.81	pass
11N20	L	2412	Ant 1	17.94	pass
11N20	L	2412	Ant 2	17.98	pass
11N20	M	2437	Ant 1	17.94	pass
11N20	M	2437	Ant 2	17.92	pass
11N20	H	2462	Ant 1	17.95	pass
11N20	H	2462	Ant 2	17.97	pass
11N20m	L	2412	Ant 1	17.95	pass
11N20m	L	2412	Ant 2	17.93	pass
11N20m	M	2437	Ant 1	17.98	pass
11N20m	M	2437	Ant 2	17.92	pass
11N20m	H	2462	Ant 1	17.95	pass
11N20m	H	2462	Ant 2	17.93	pass

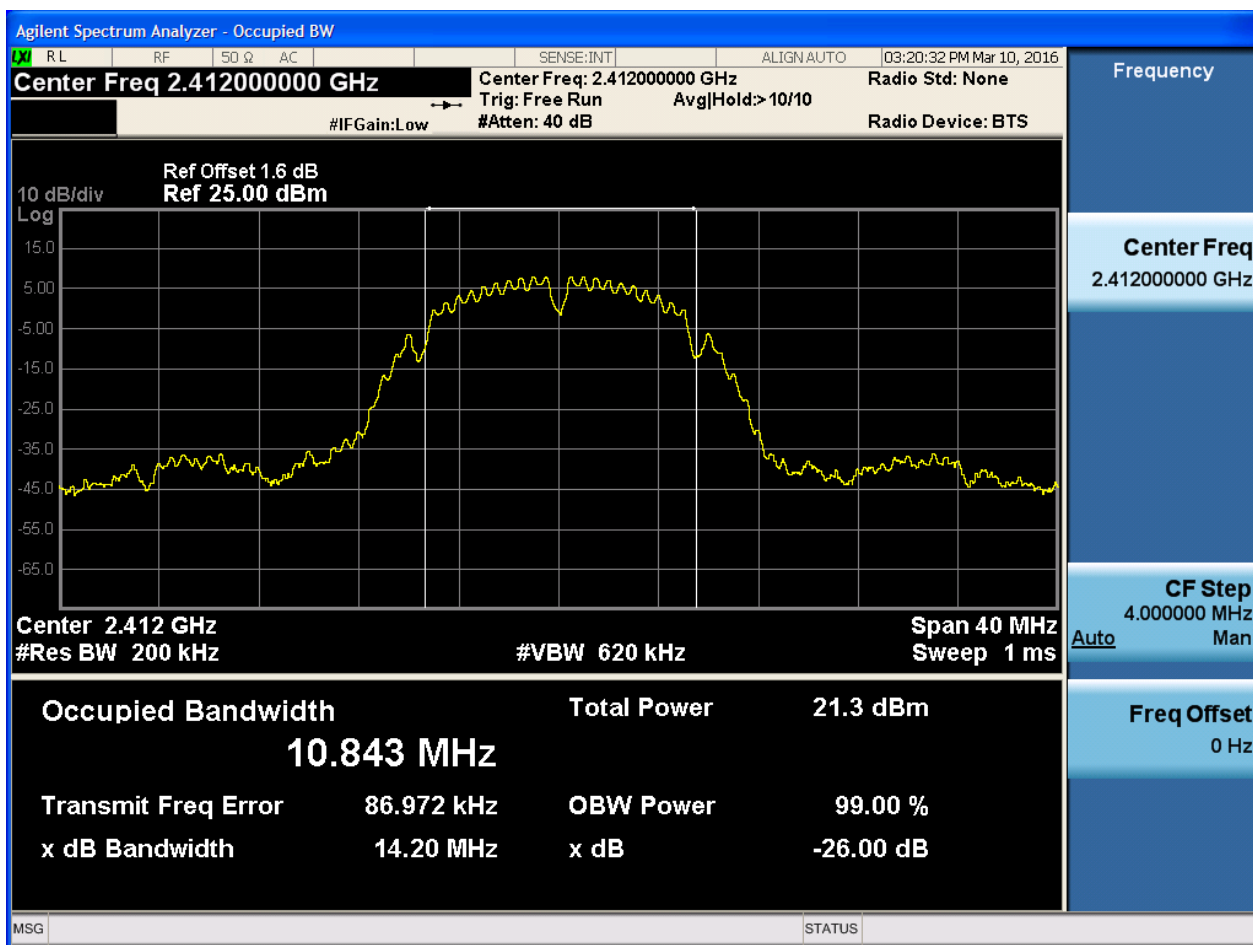
Part II - Test Plots

2.1 11B_L@Ant 1



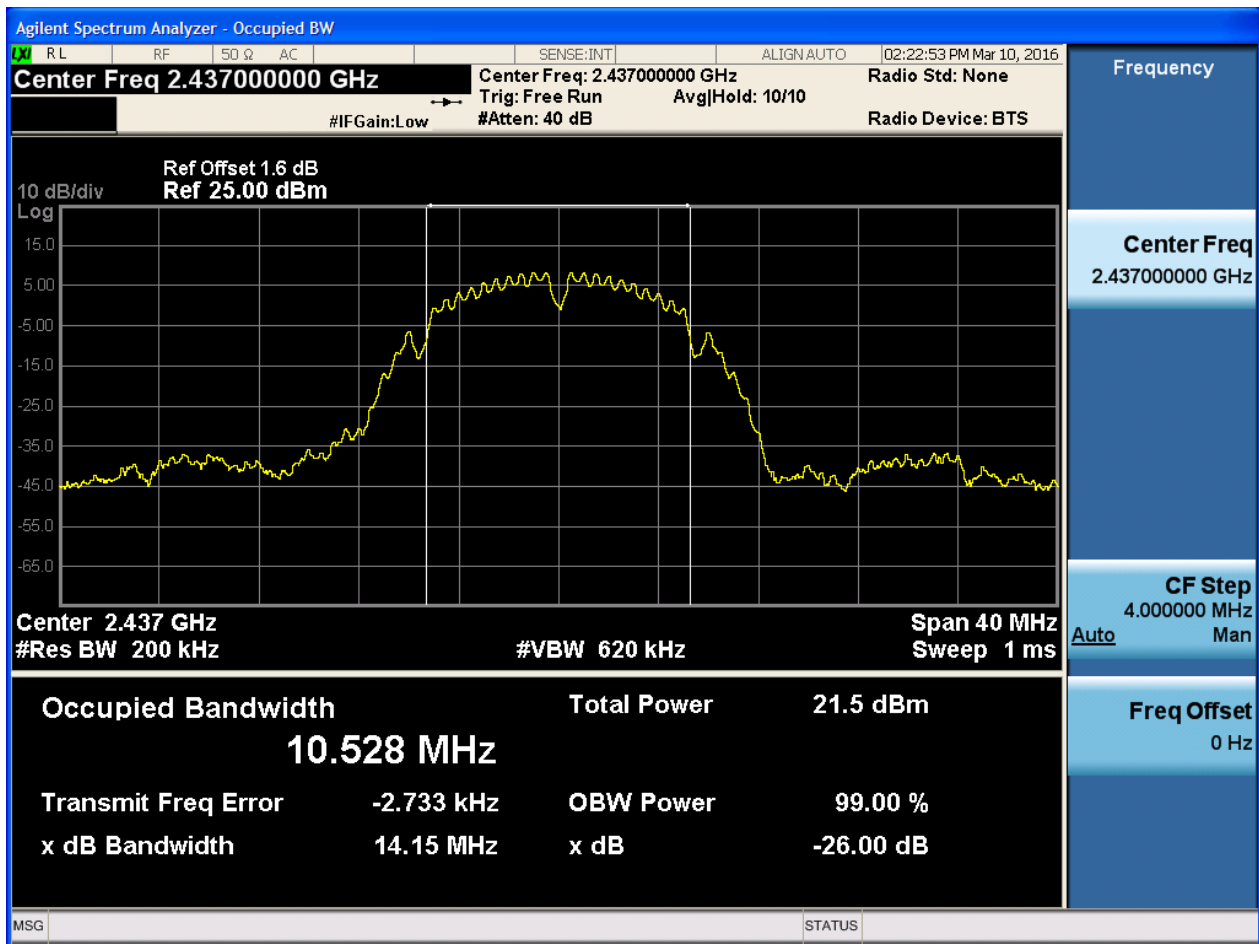


2.2 11B_L@Ant 2



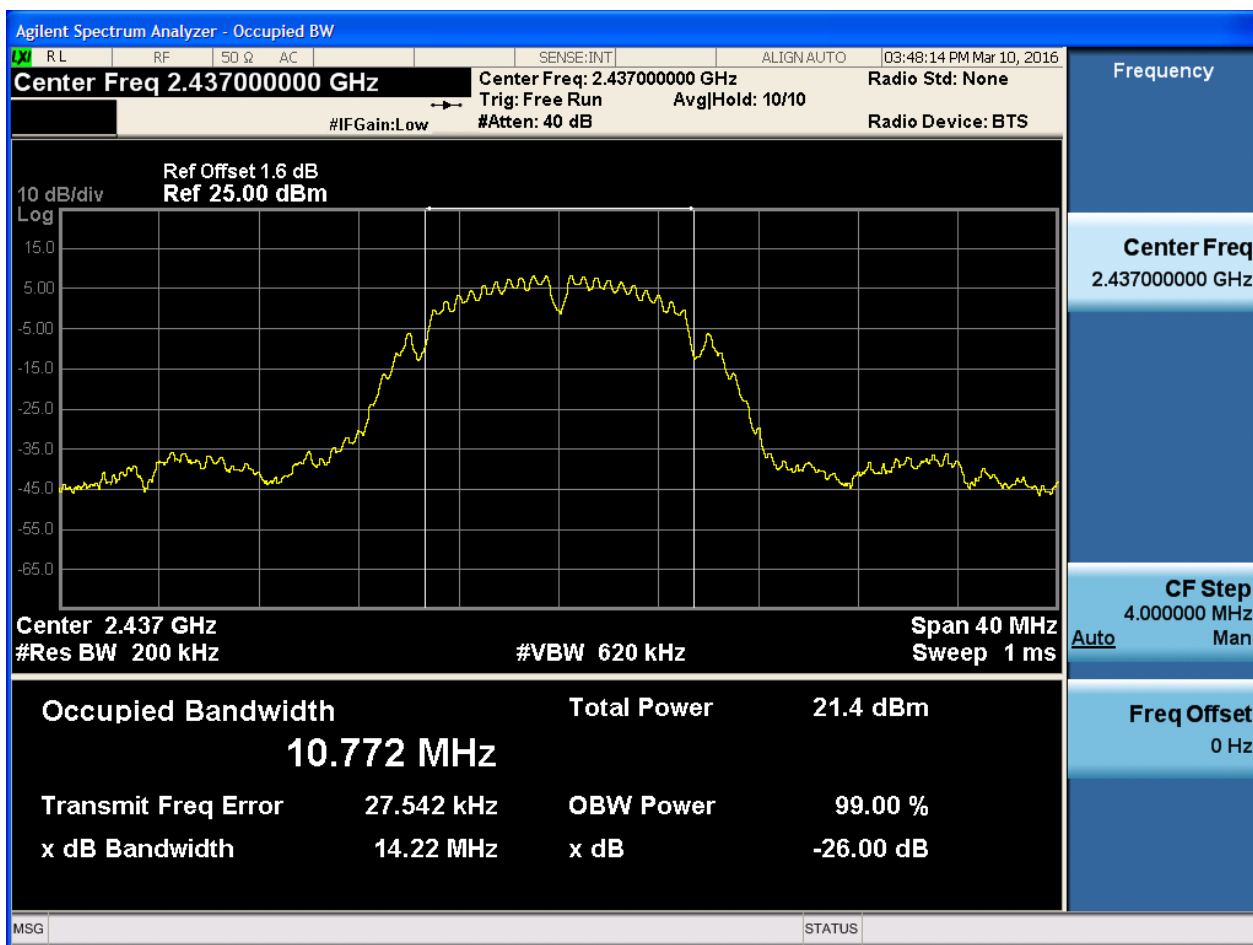


2.3 11B_M@Ant 1



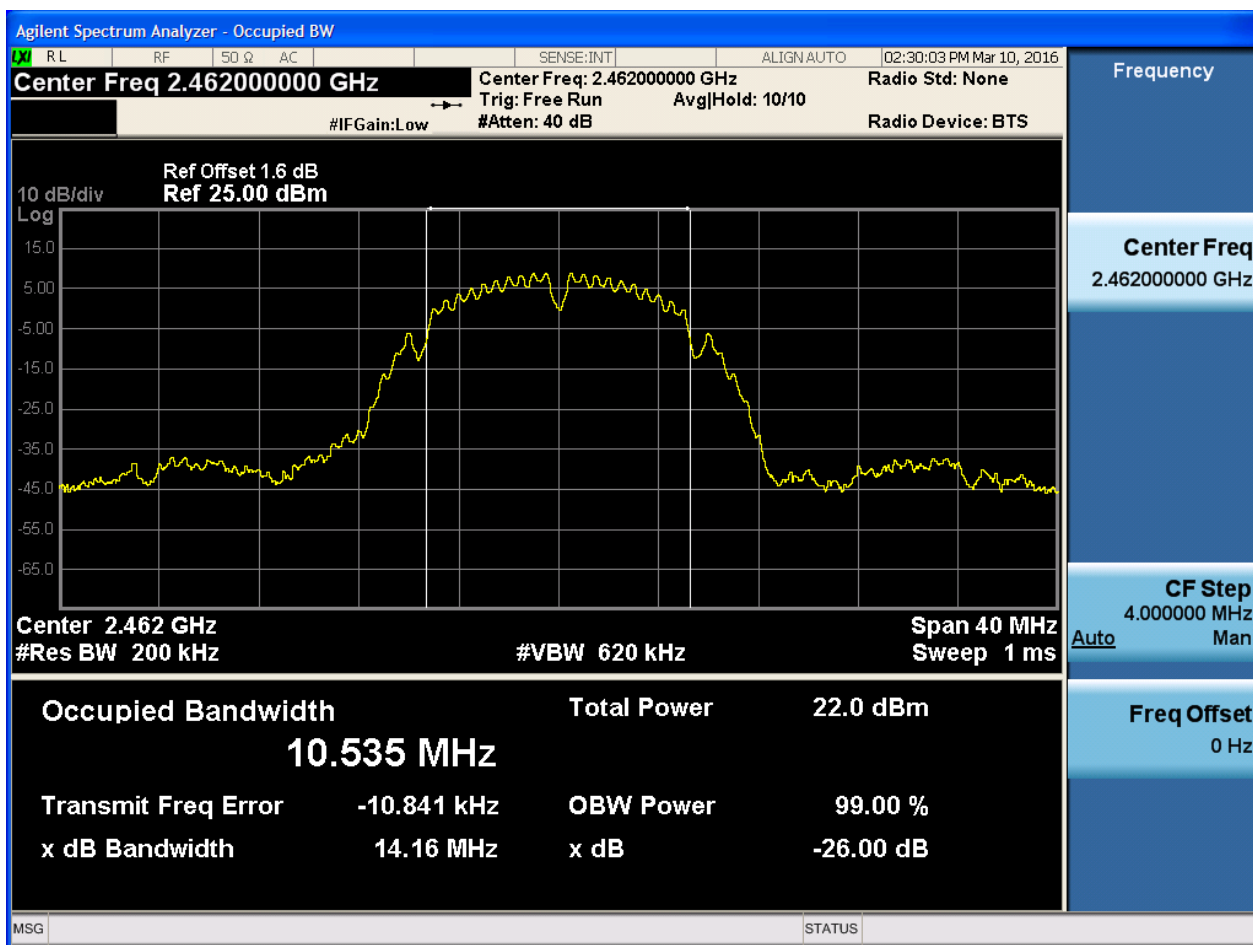


2.4 11B_M@Ant 2



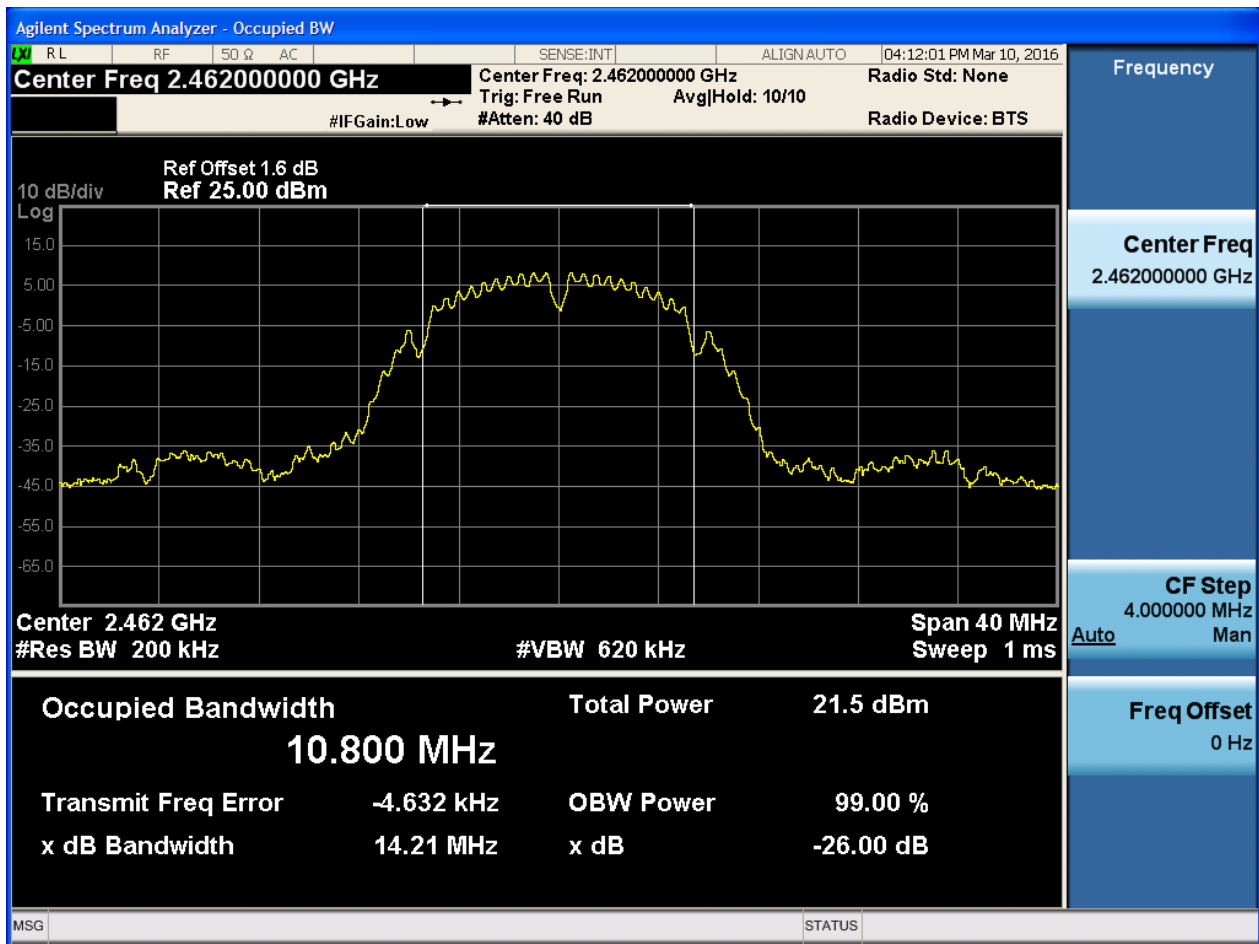


2.5 11B_H@Ant 1



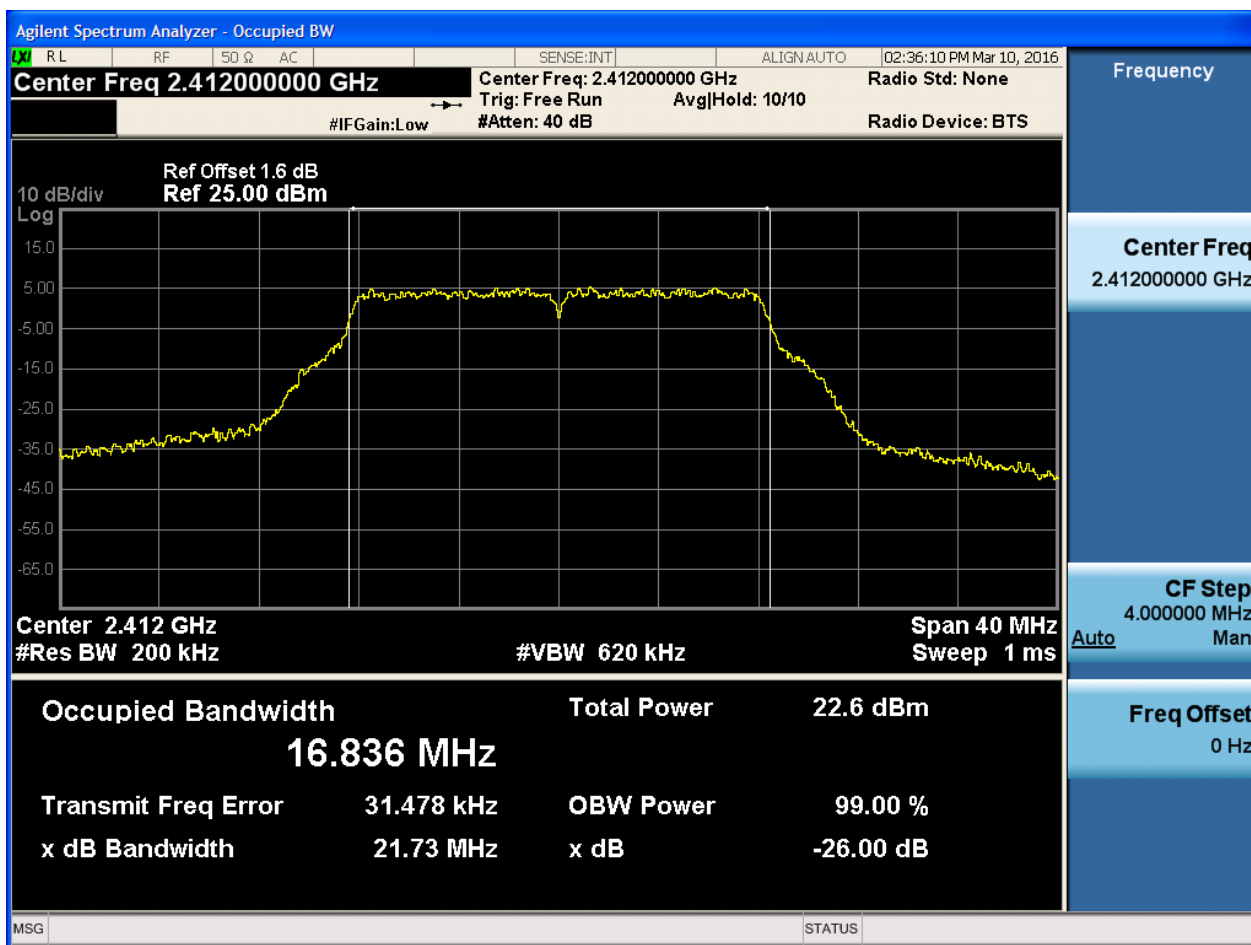


2.6 11B_H@Ant 2



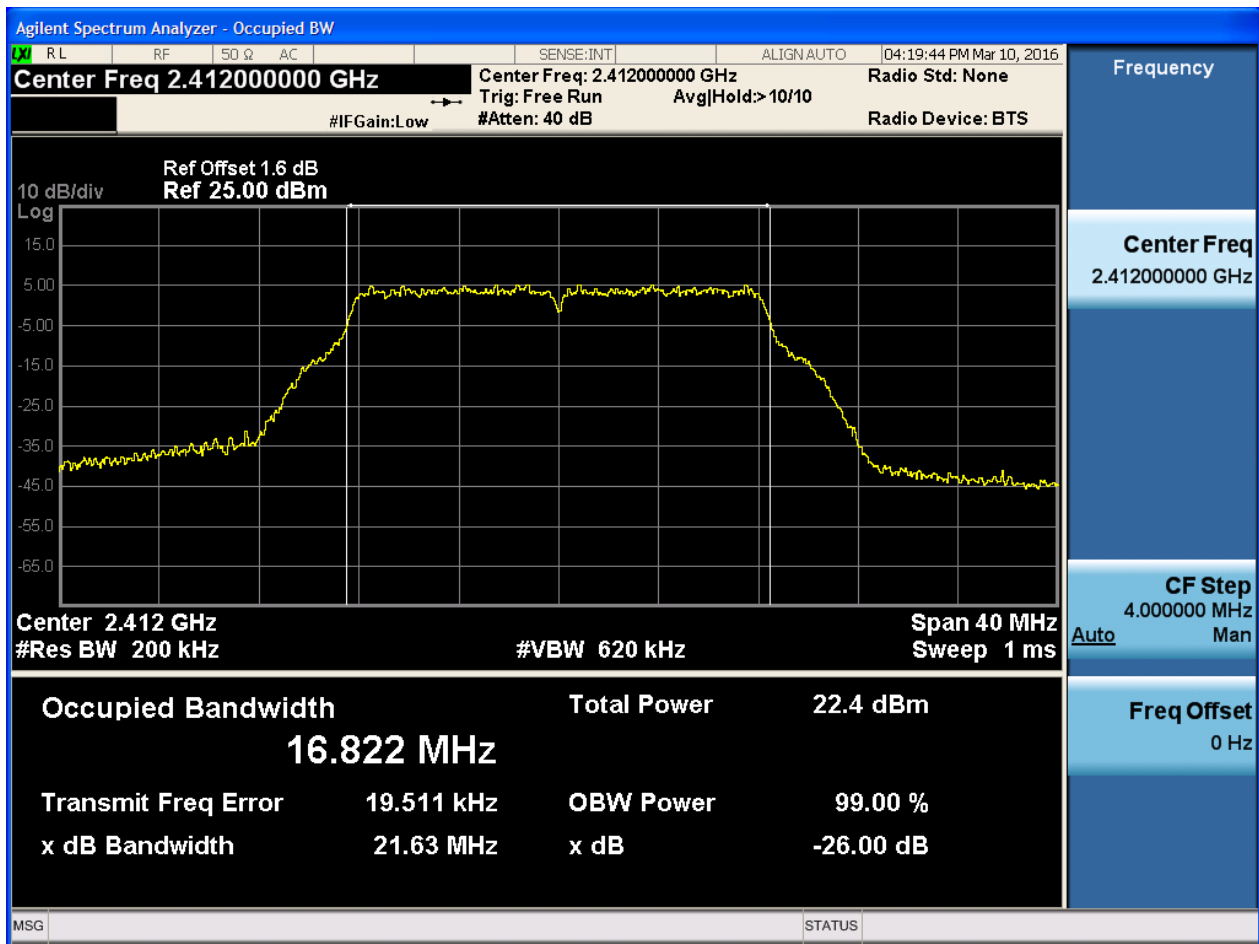


2.7 11G_L@Ant 1



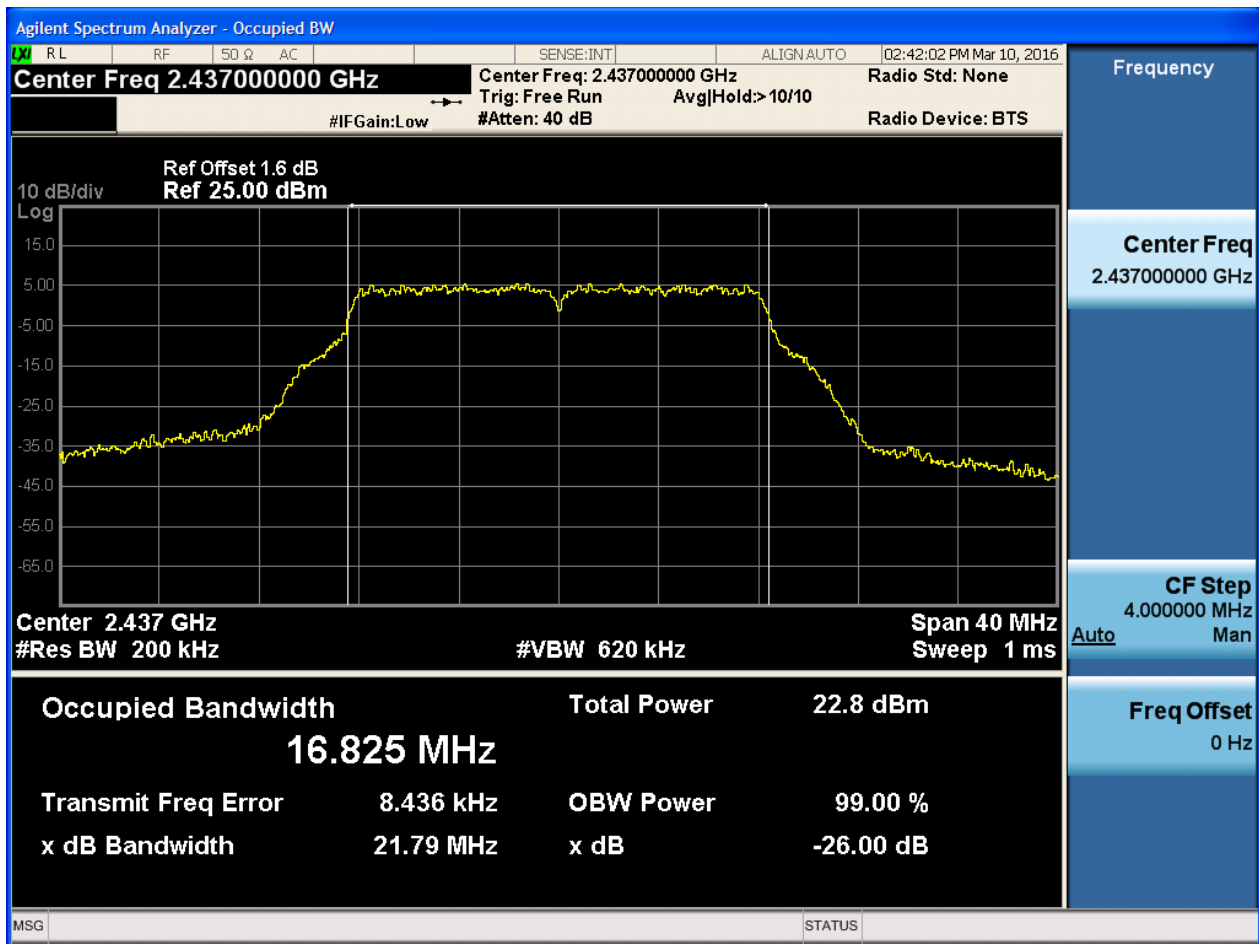


2.8 11G_L@Ant 2



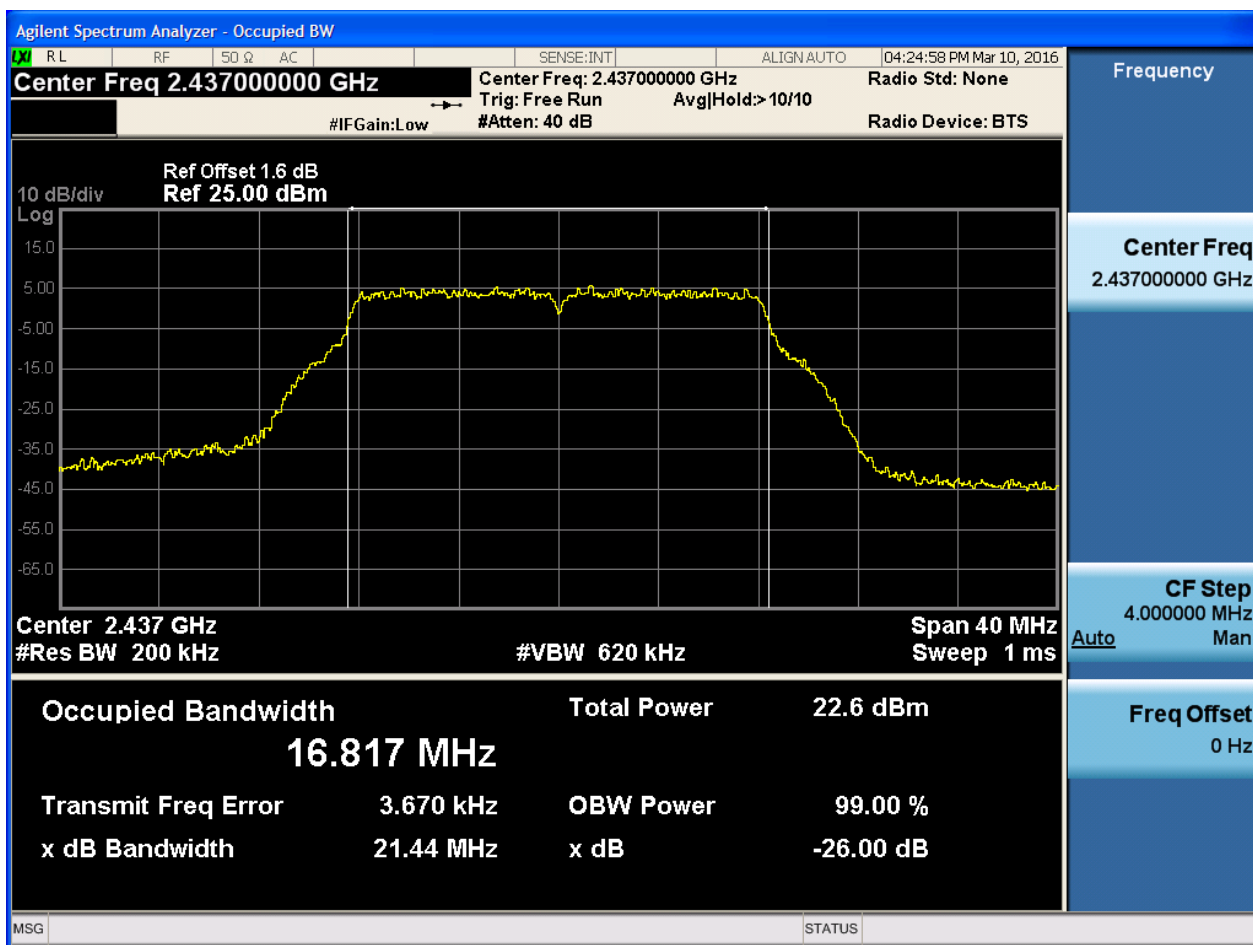


2.9 11G_M@Ant 1



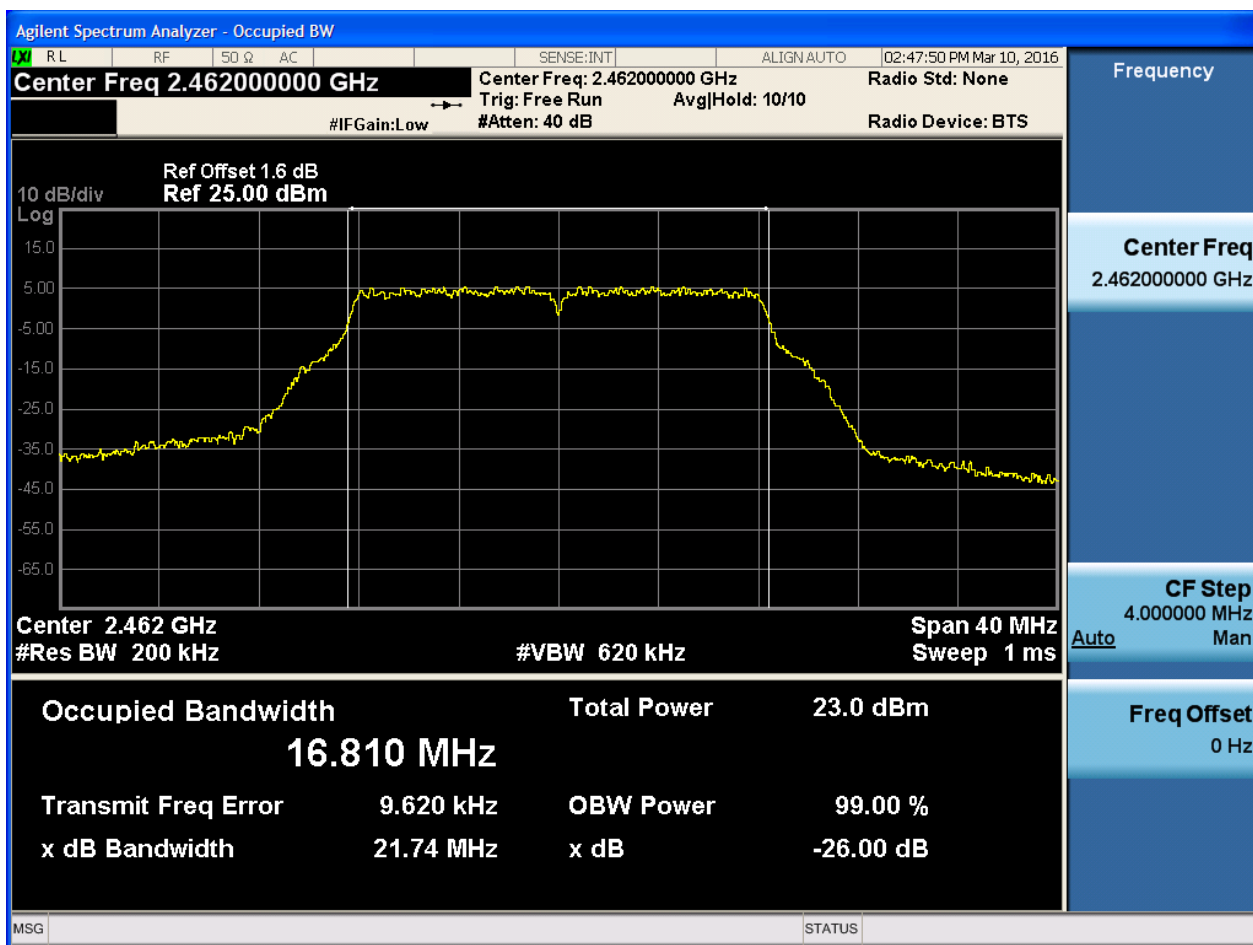


2.10 11G_M@Ant 2



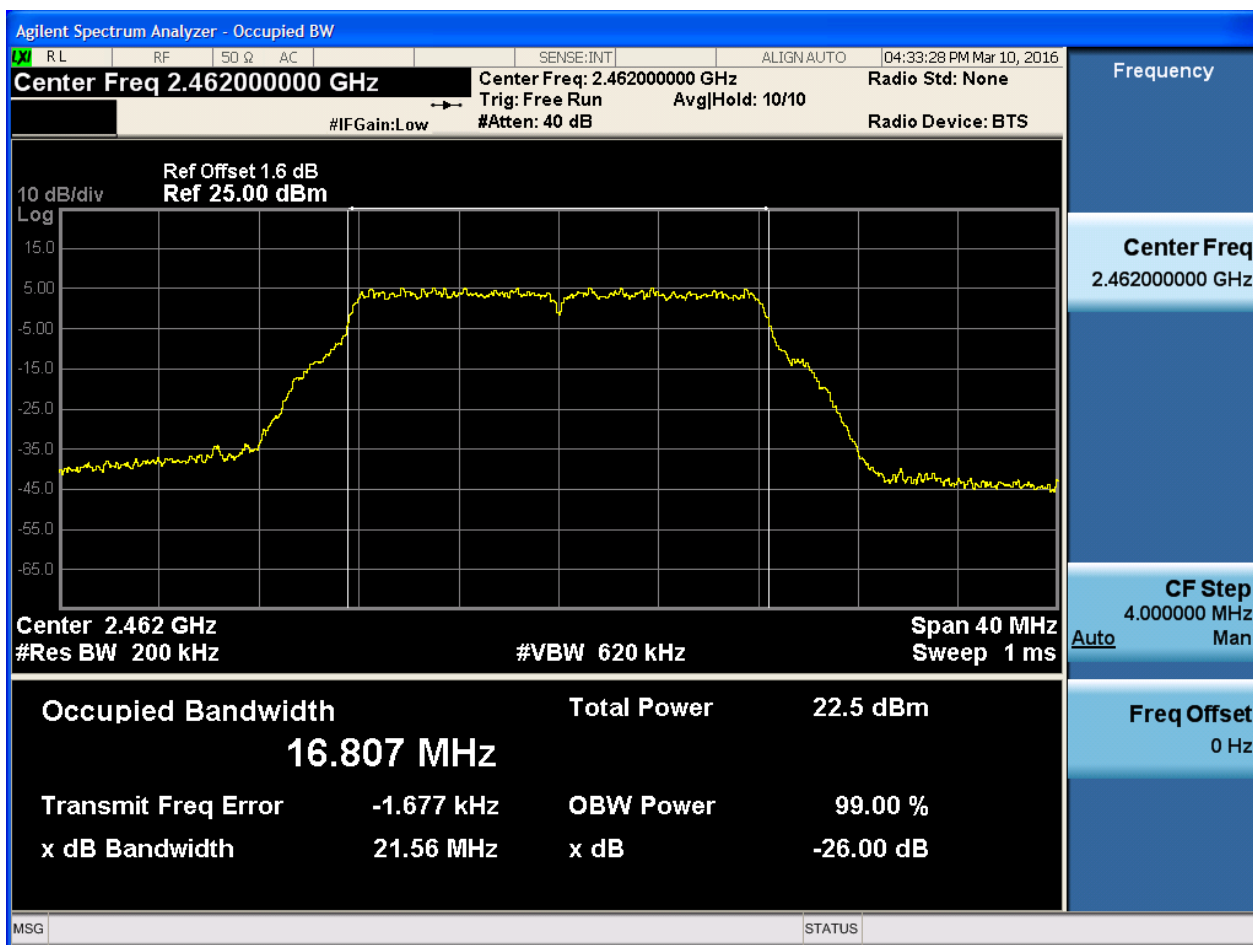


2.11 11G_H@Ant 1



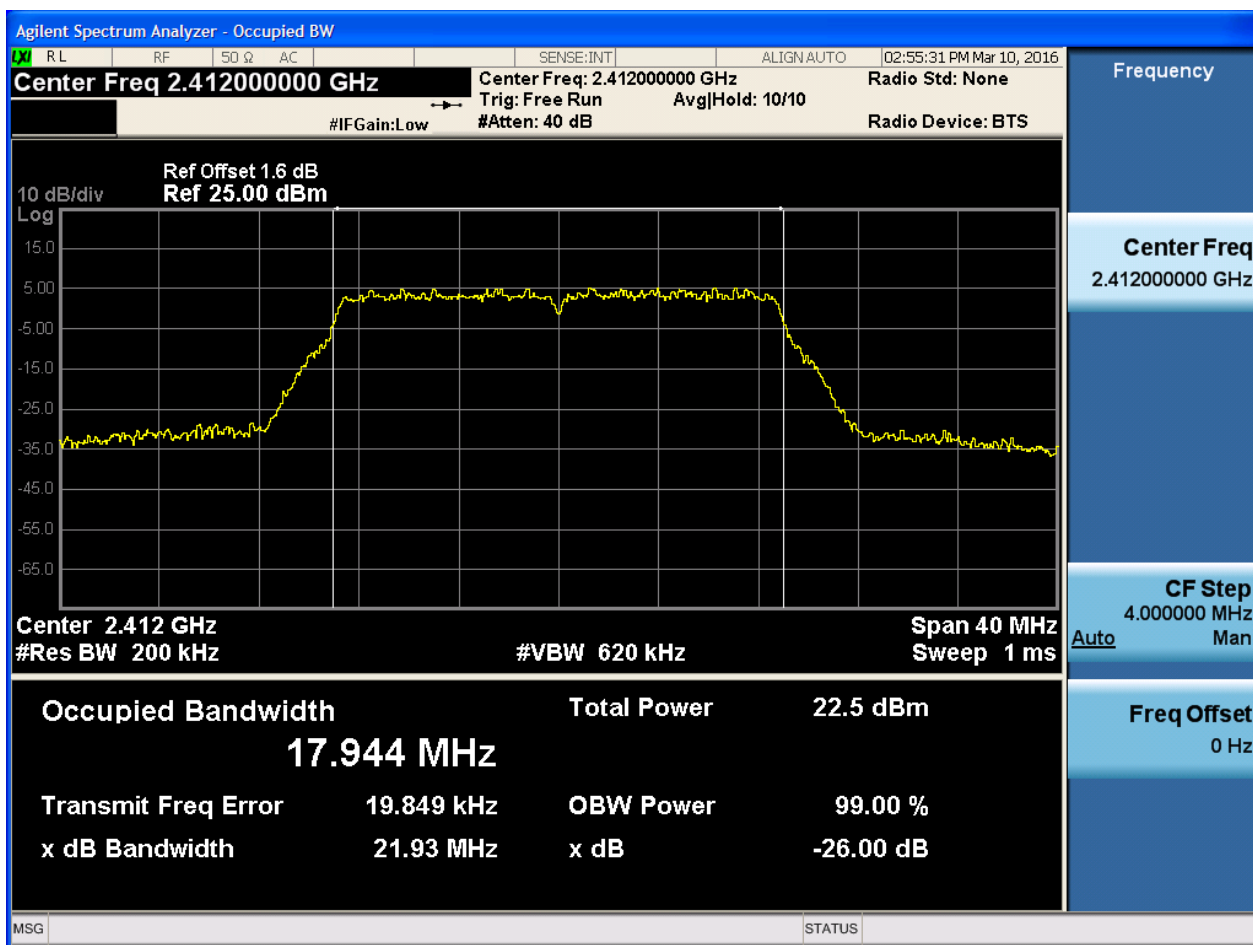


2.12 11G_H@Ant 2



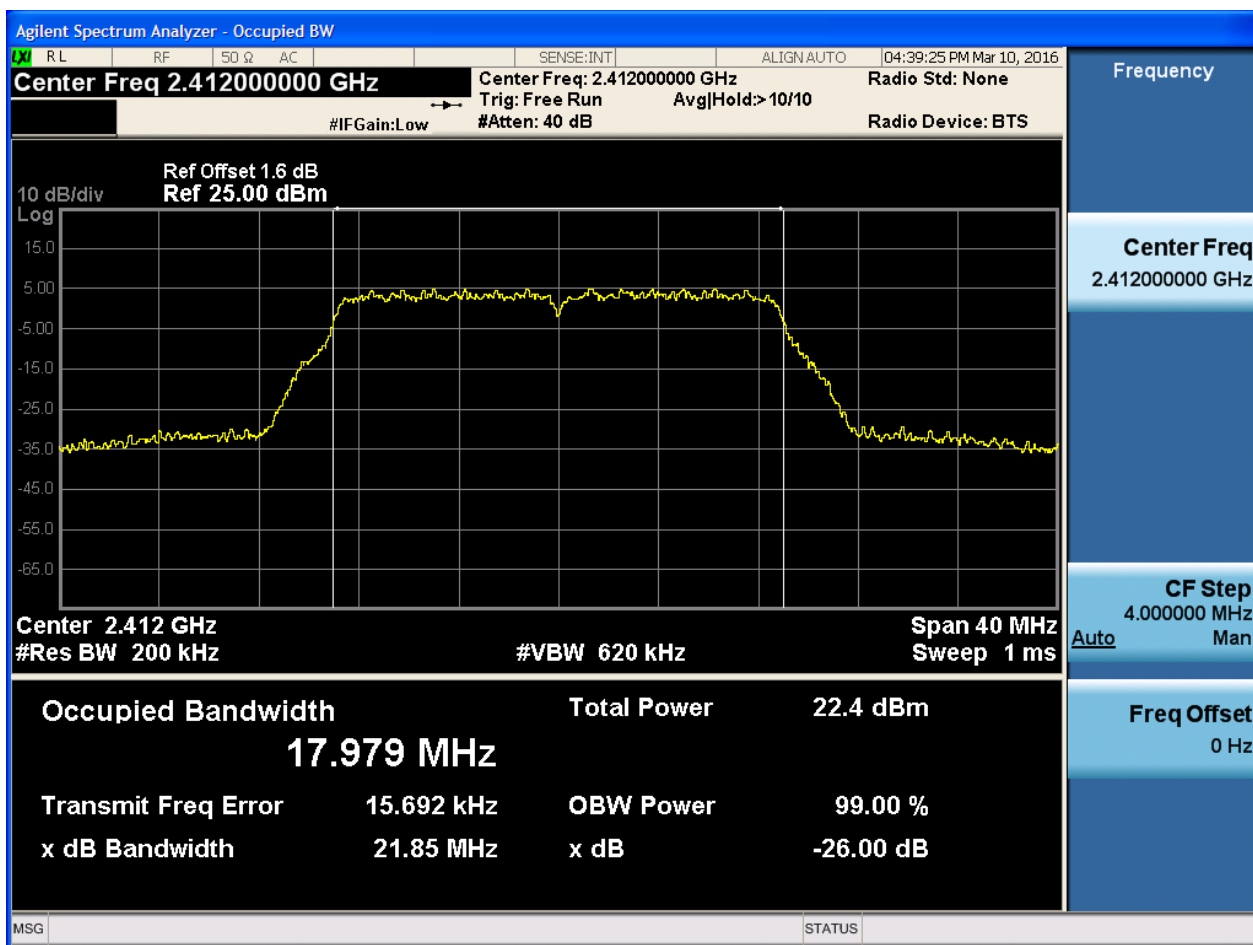


2.13 11N20_L@Ant 1



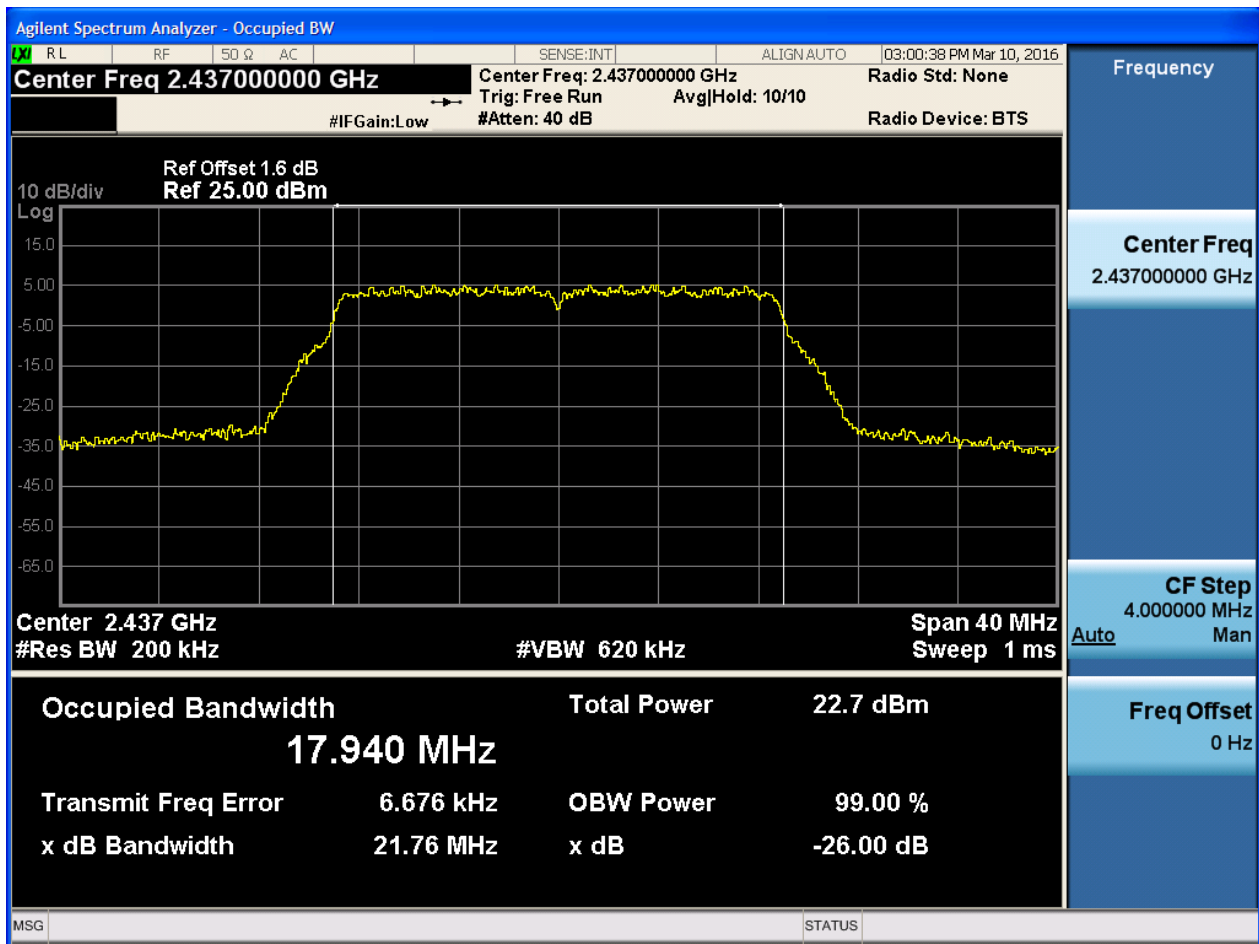


2.14 11N20_L@Ant 2



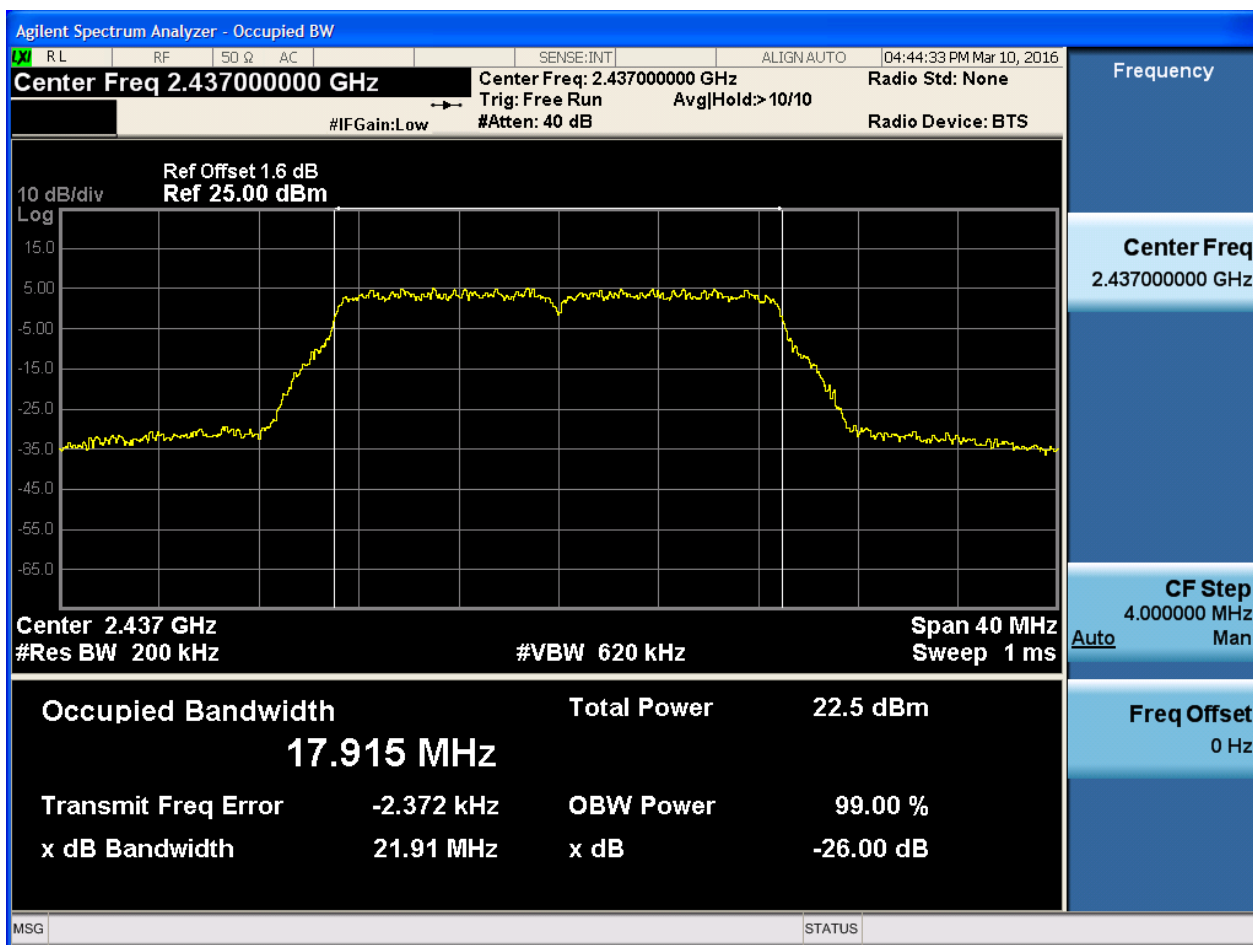


2.15 11N20_M@Ant 1



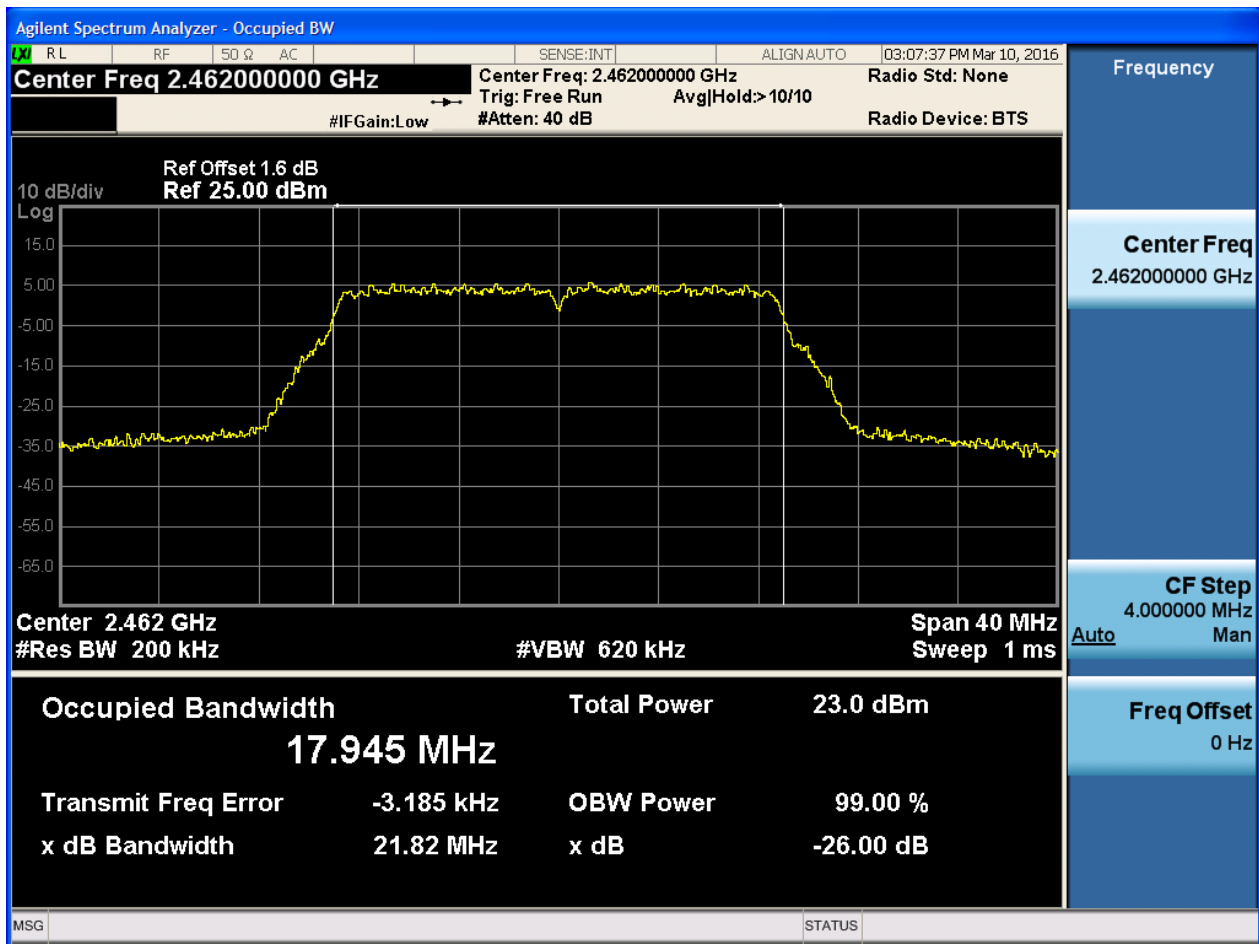


2.16 11N20_M@Ant 2



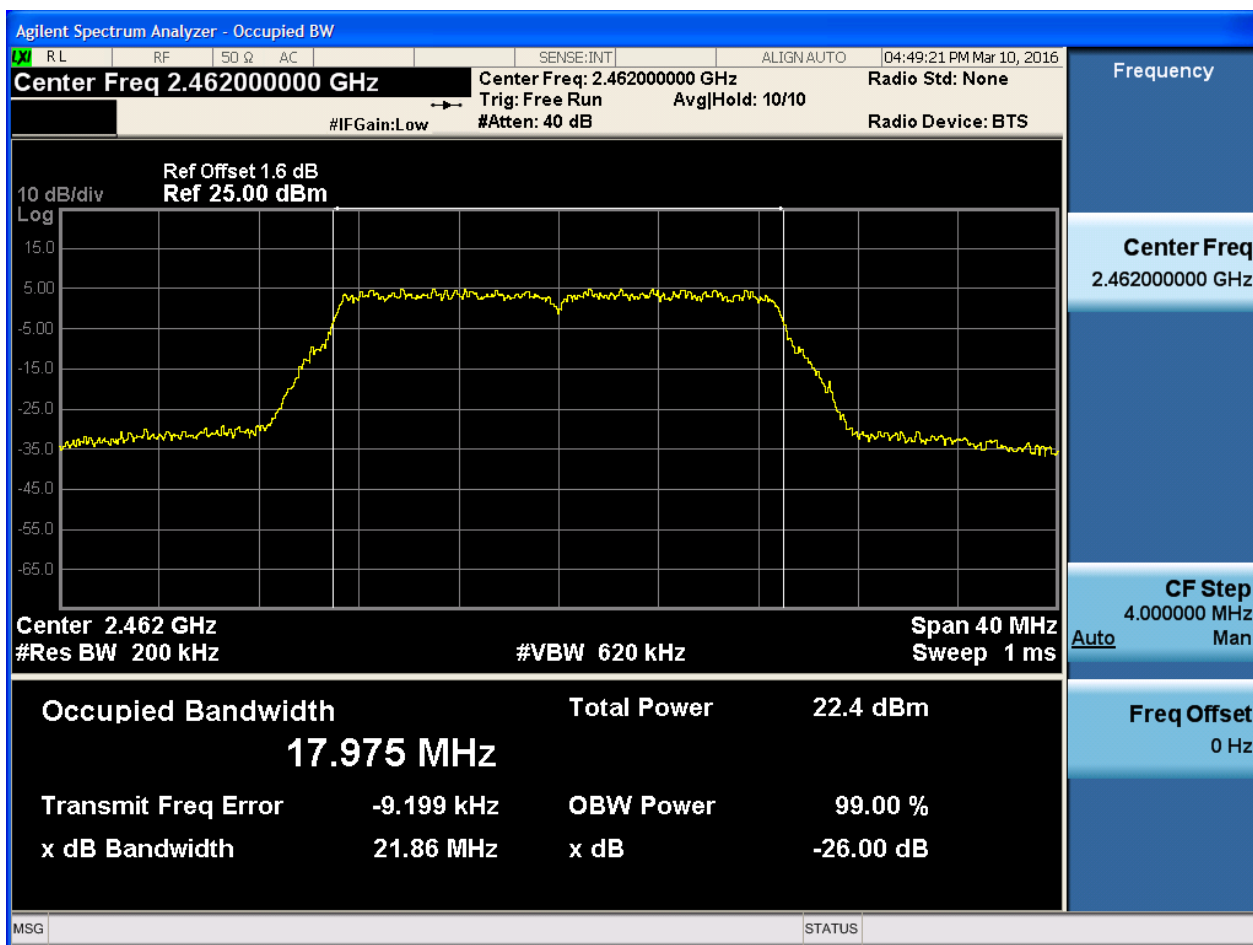


2.17 11N20_H@Ant 1



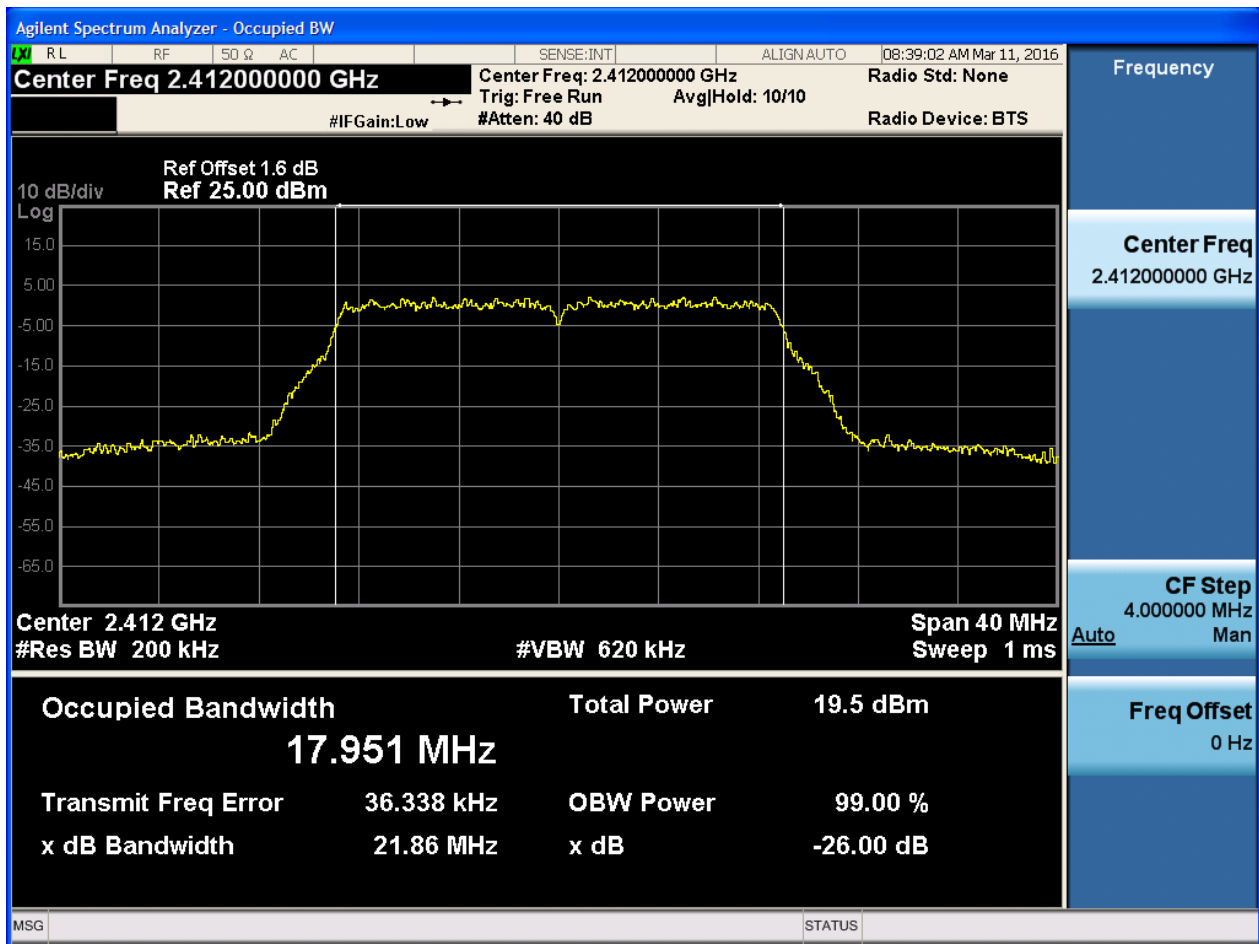


2.18 11N20_H@Ant 2



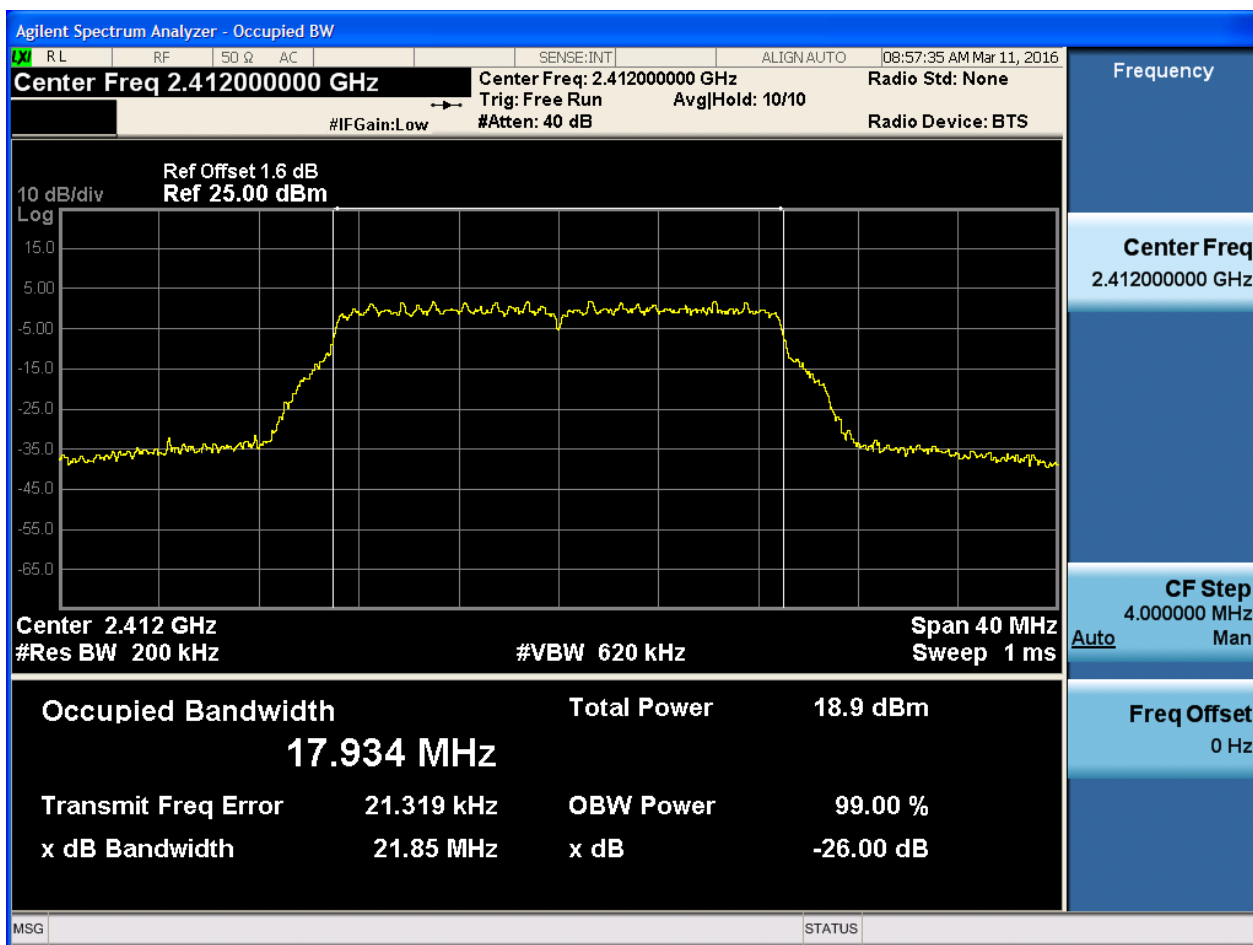


2.19 11N20m_L@Ant 1



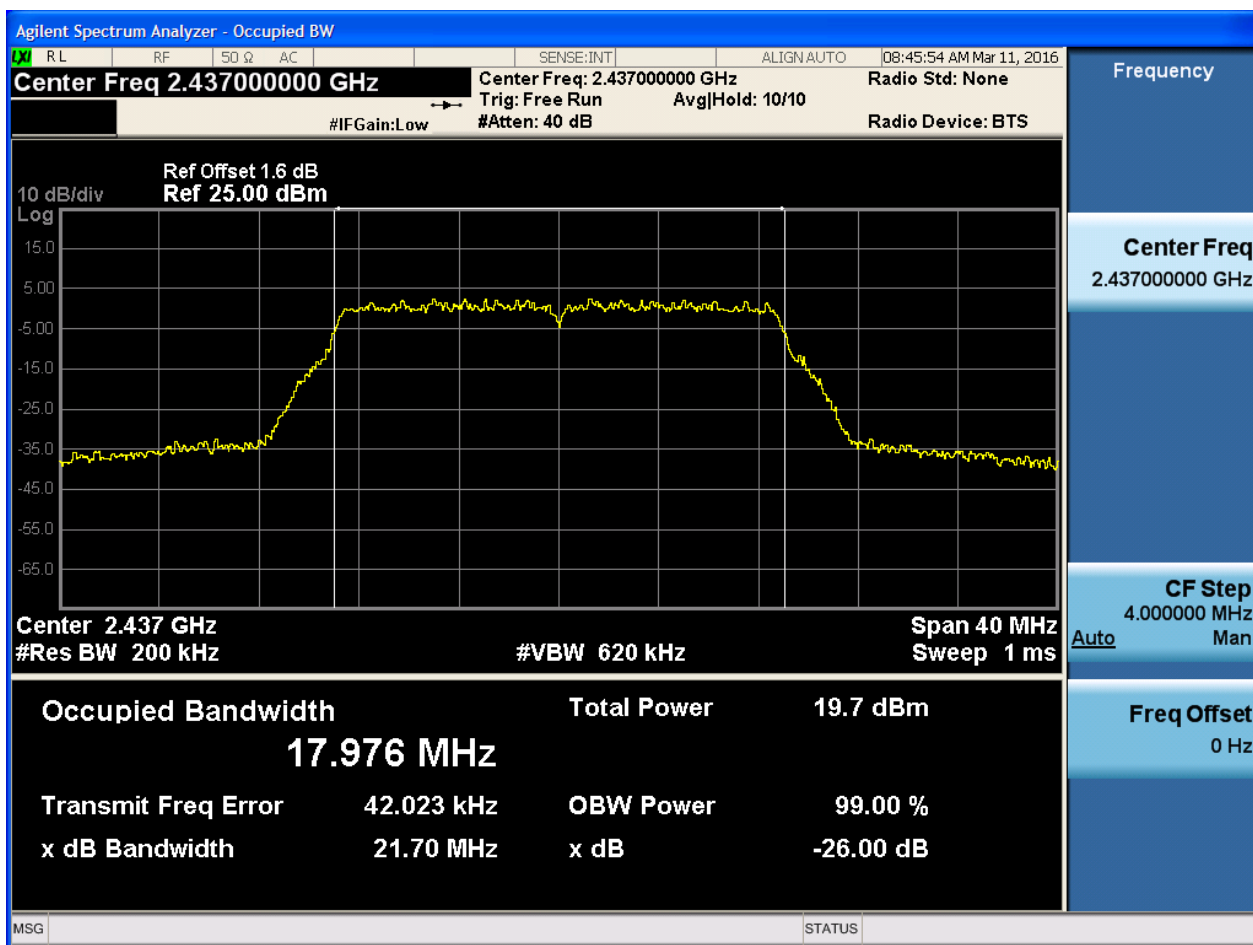


2.20 11N20m_L@Ant 2



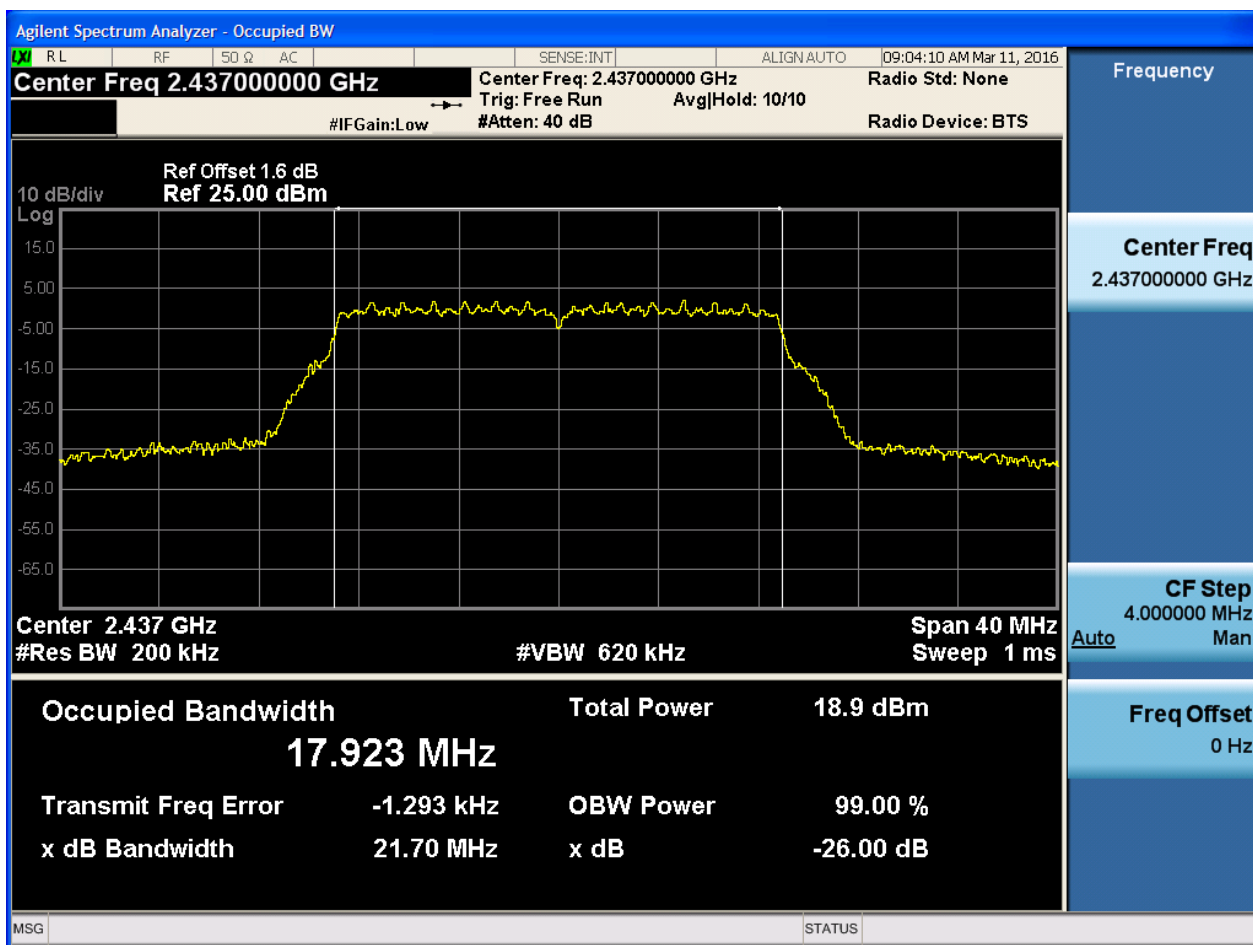


2.21 11N20m_M@Ant 1



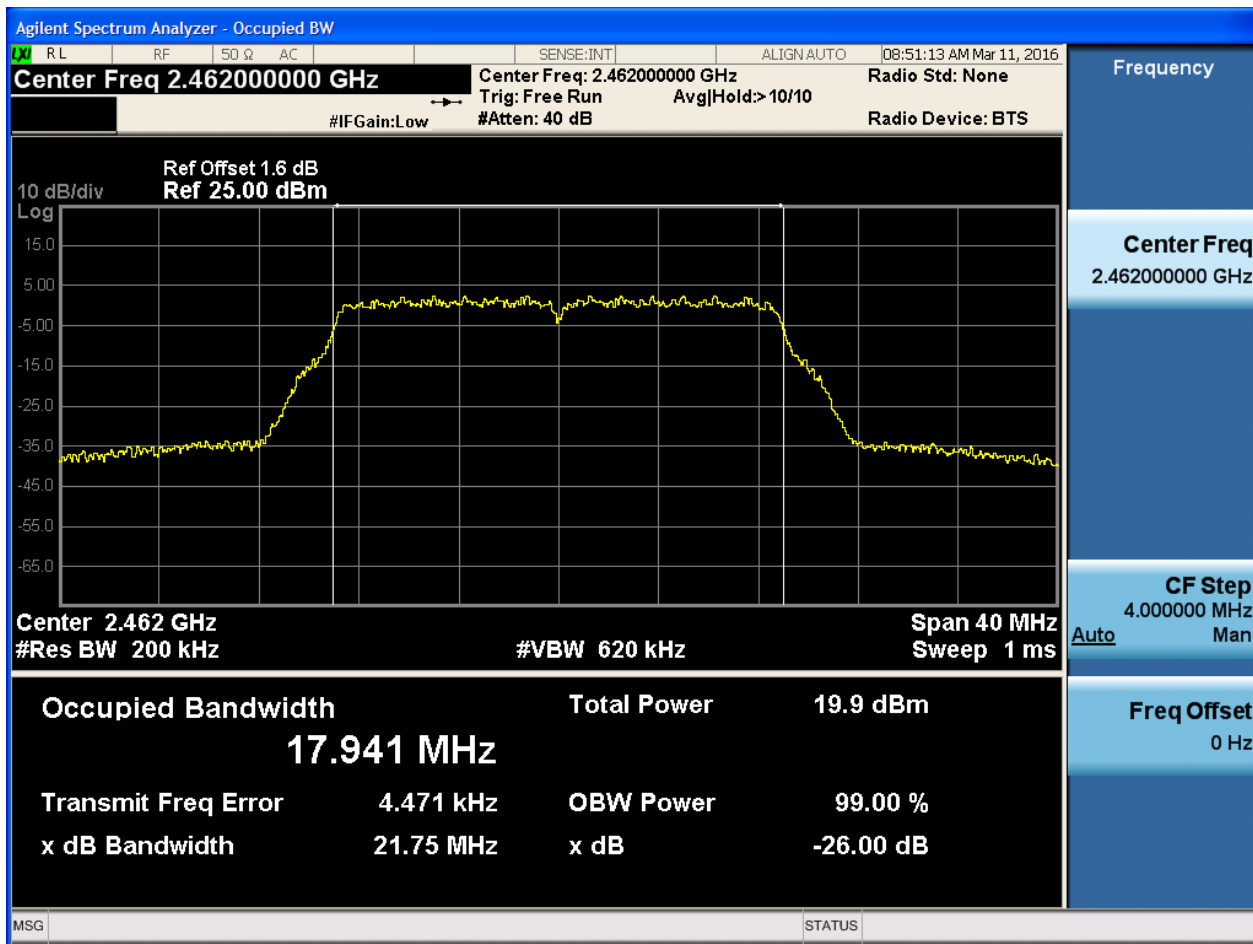


2.22 11N20m_M@Ant 2



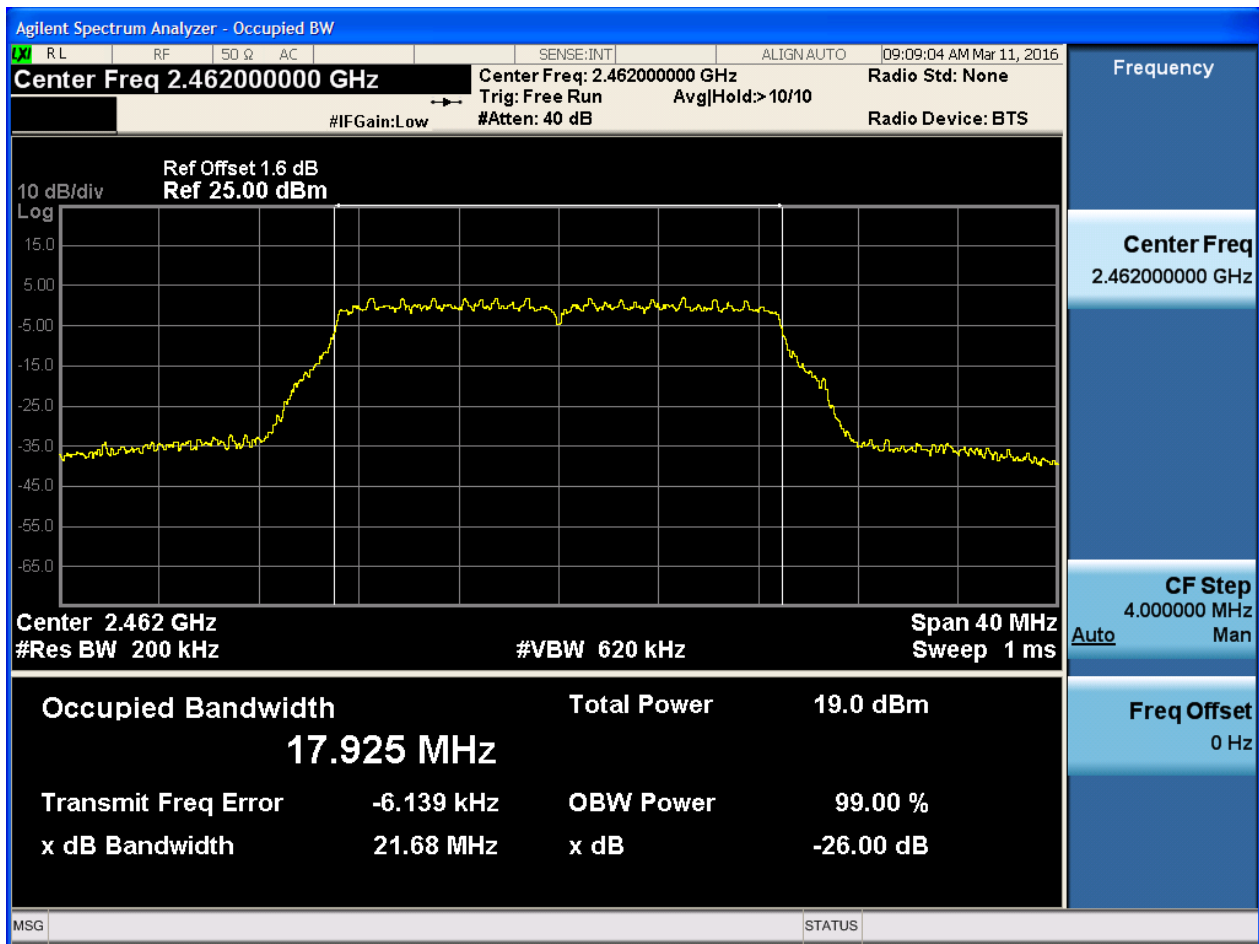


2.23 11N20m_H@Ant 1





2.24 11N20m_H@Ant 2



Appendix C: Duty Cycle

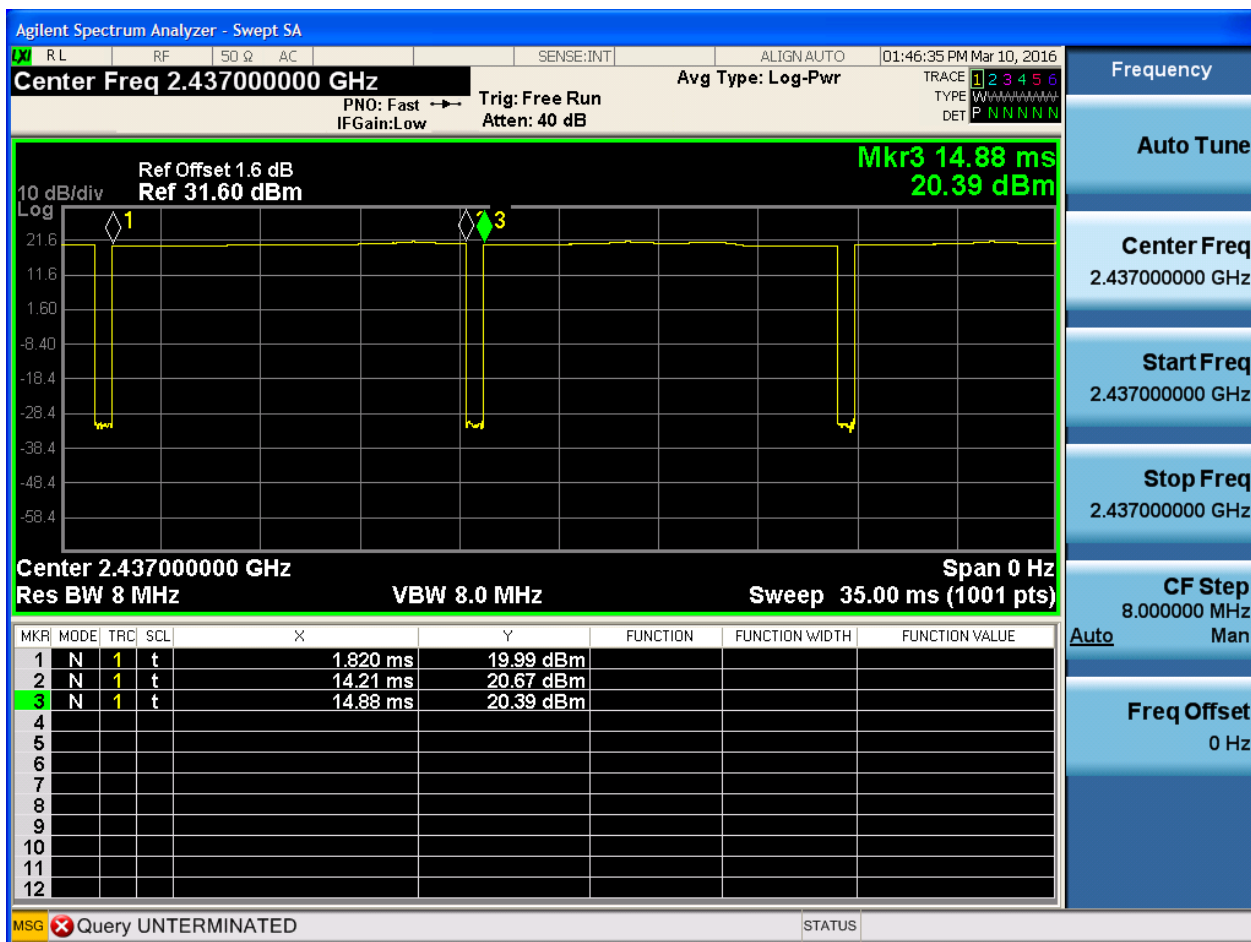
Part I - Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11B	Ant 1: CH1,CH6,CH11	95
11B	Ant 2: CH1,CH6,CH11	95
11G	Ant 1: CH1,CH6,CH11	95
11G	Ant 2: CH1,CH6,CH11	95
11N20_SISO	Ant 1: CH1,CH6,CH11	95
11N20_SISO	Ant 2: CH1,CH6,CH11	95
11N20_MIMO	Ant 1: CH1,CH6,CH11	95
11N20_MIMO	Ant 2: CH1,CH6,CH11	95



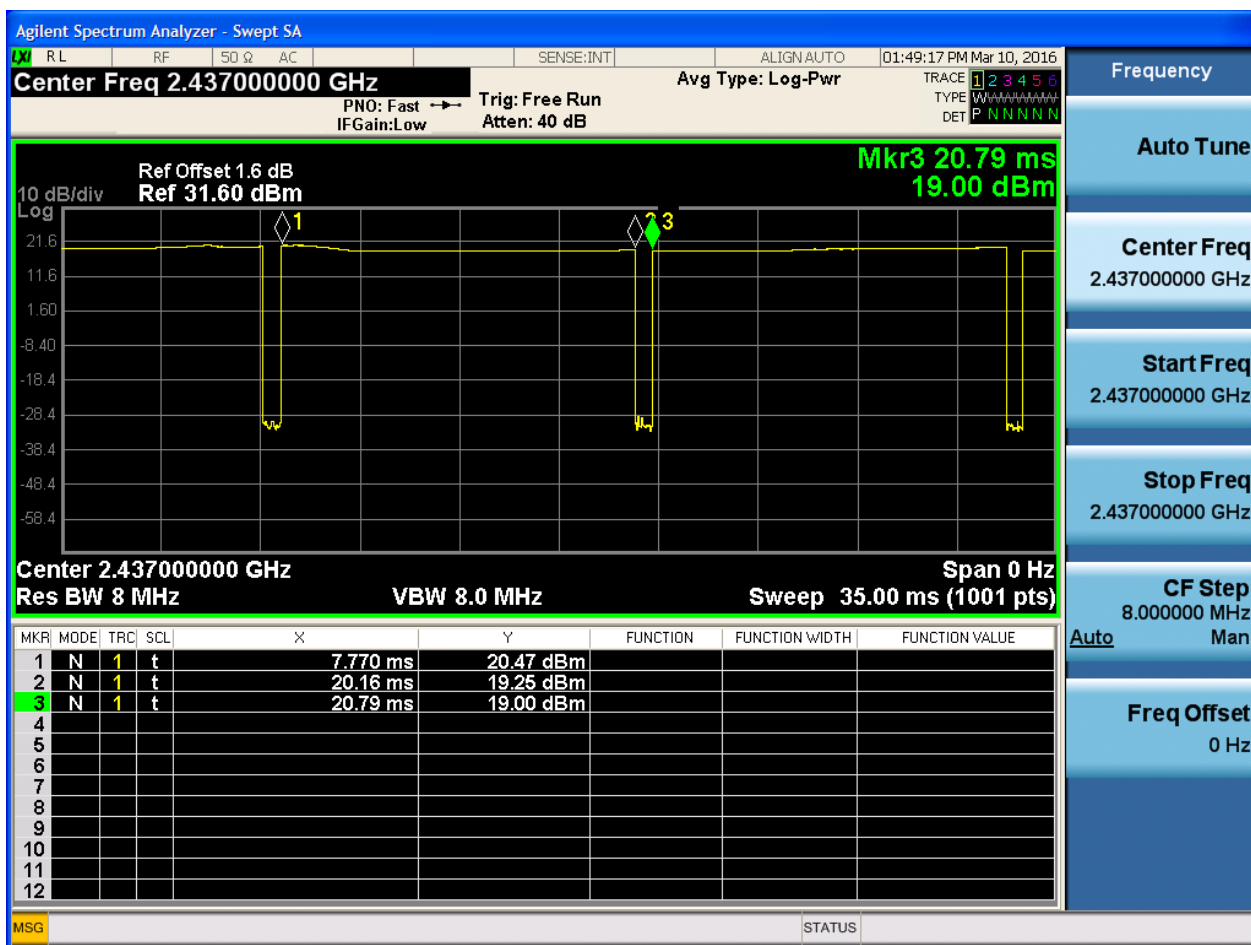
Part II - Test Plots

2.1 11B_Ant 1

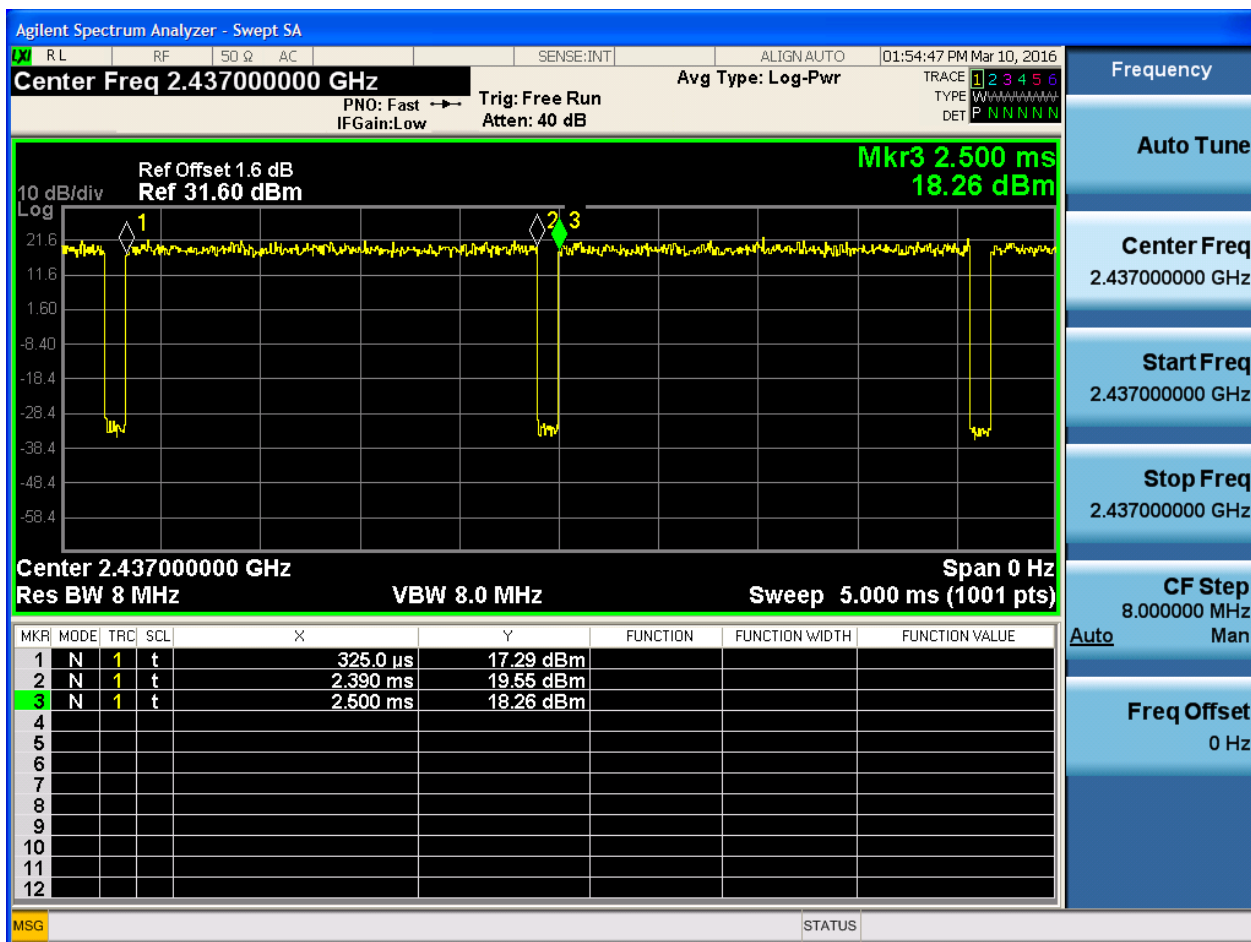




2.2 11B_Ant 2

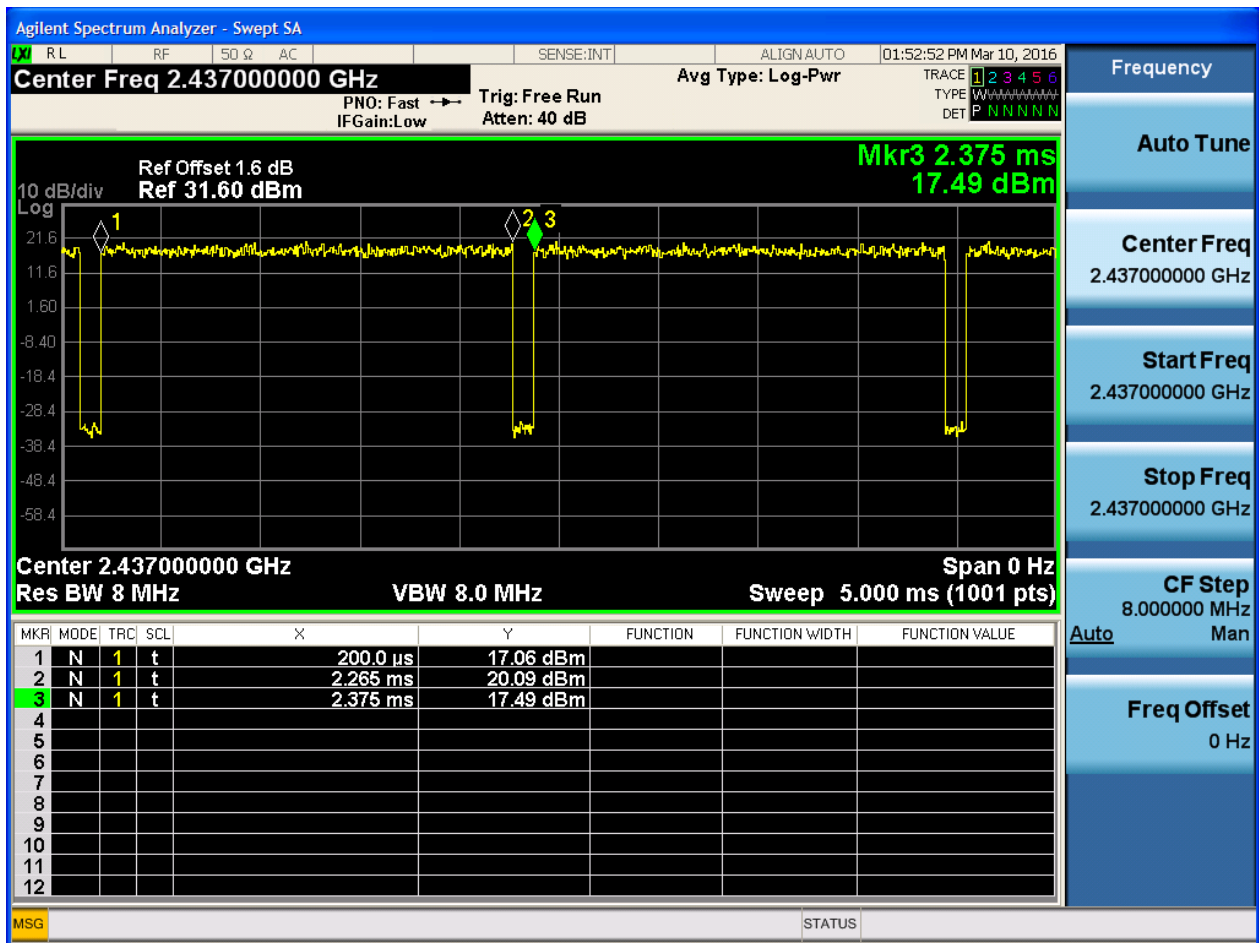


2.3 11G_Ant 1



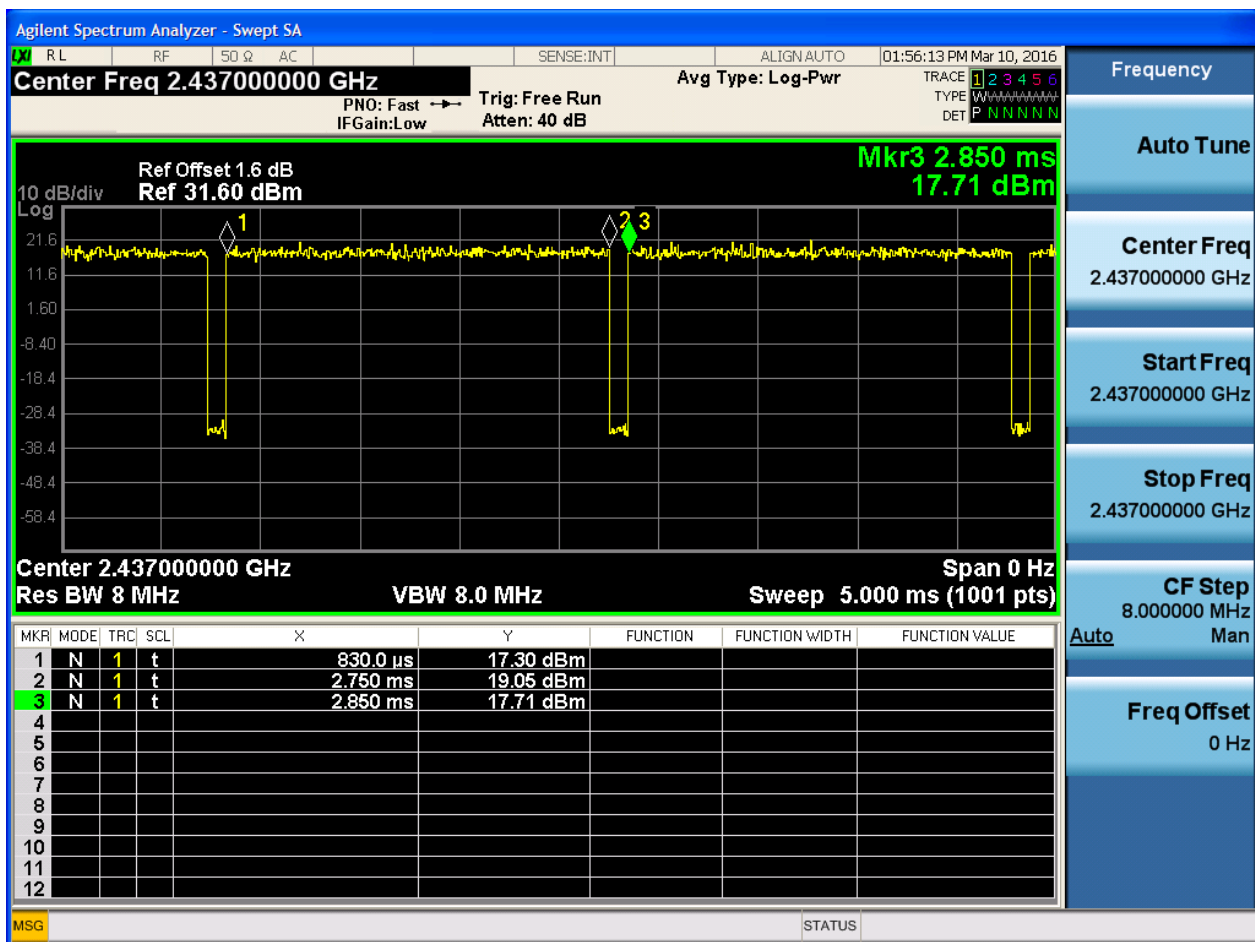


2.4 11G_Ant 2

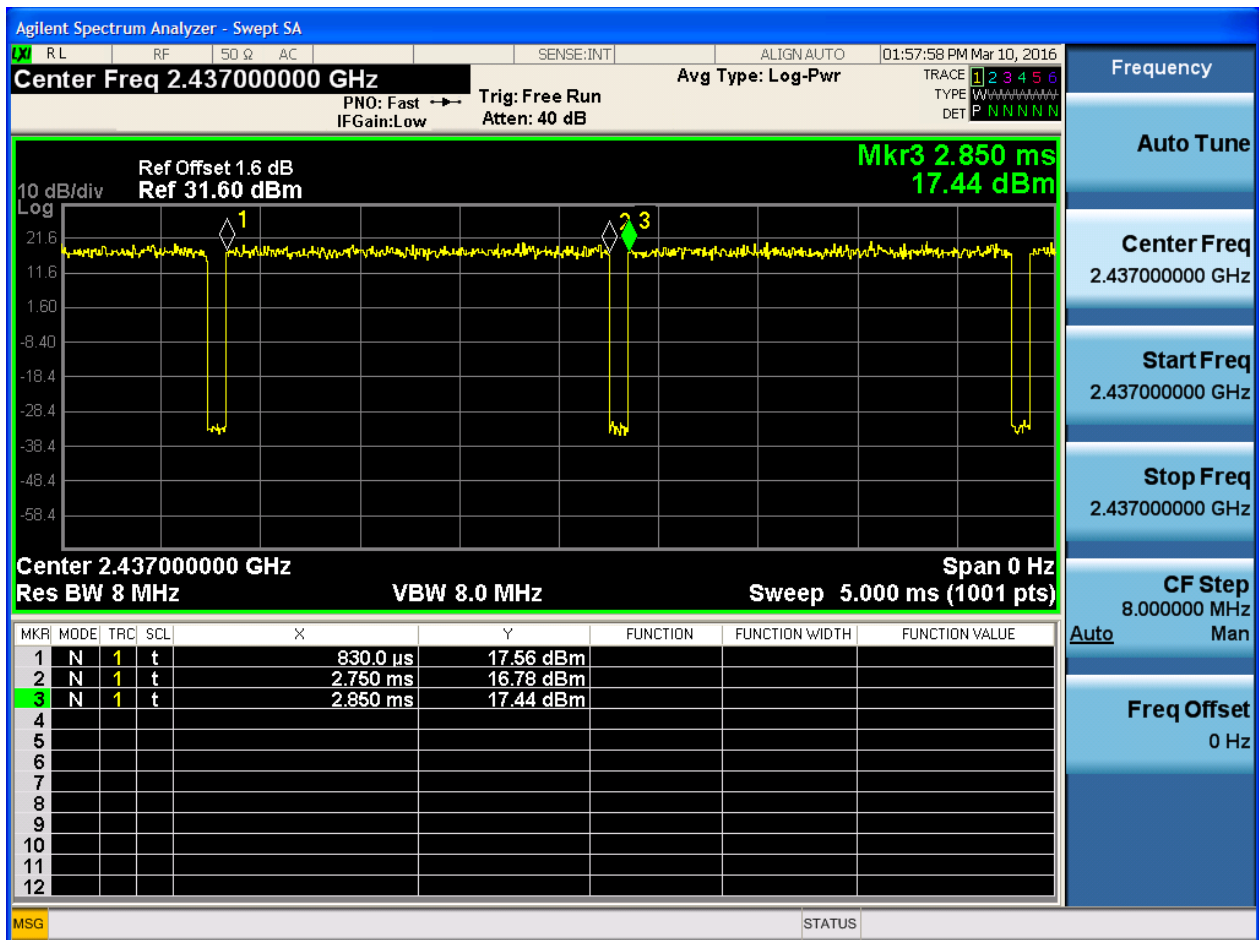




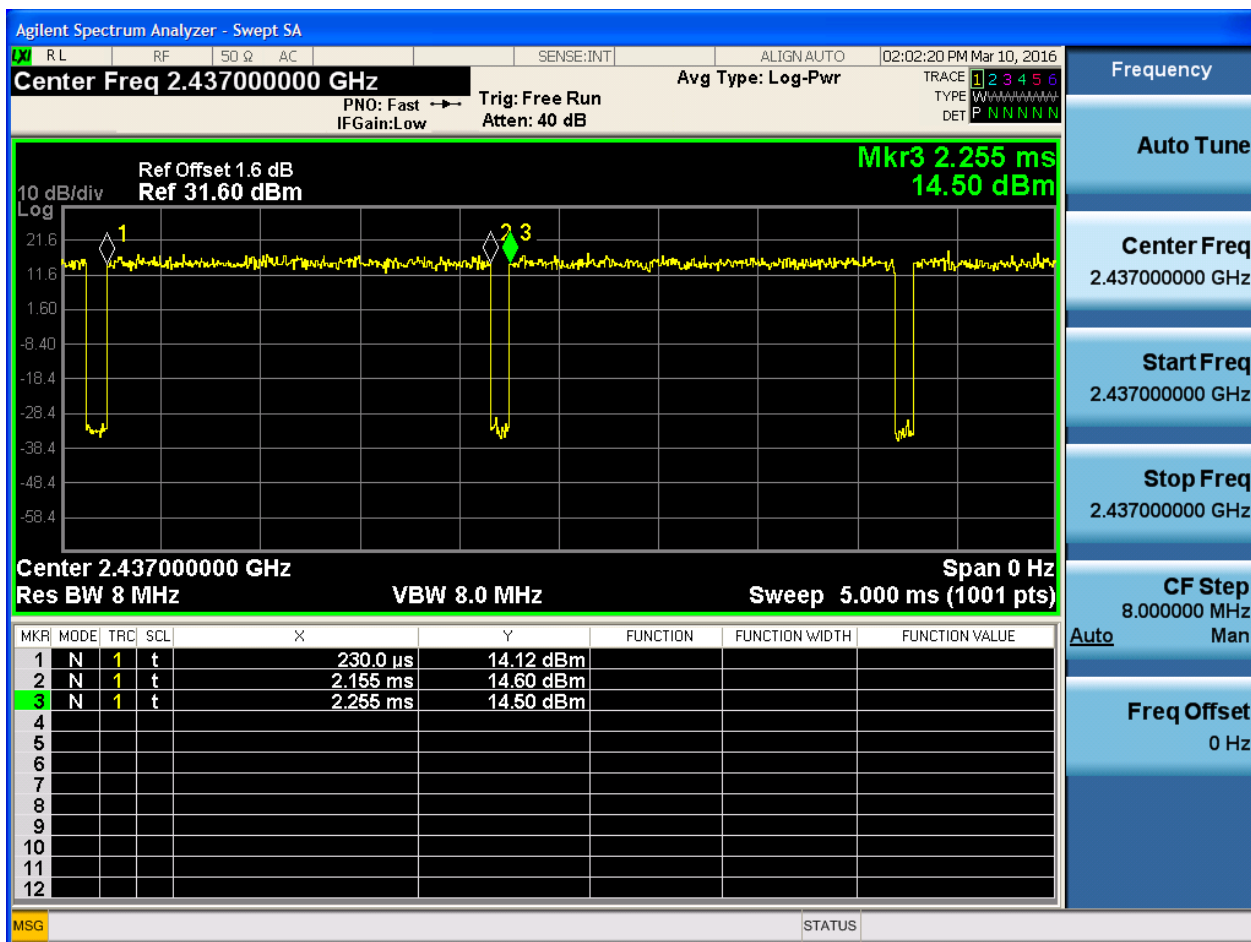
2.5 11N20_Ant 1



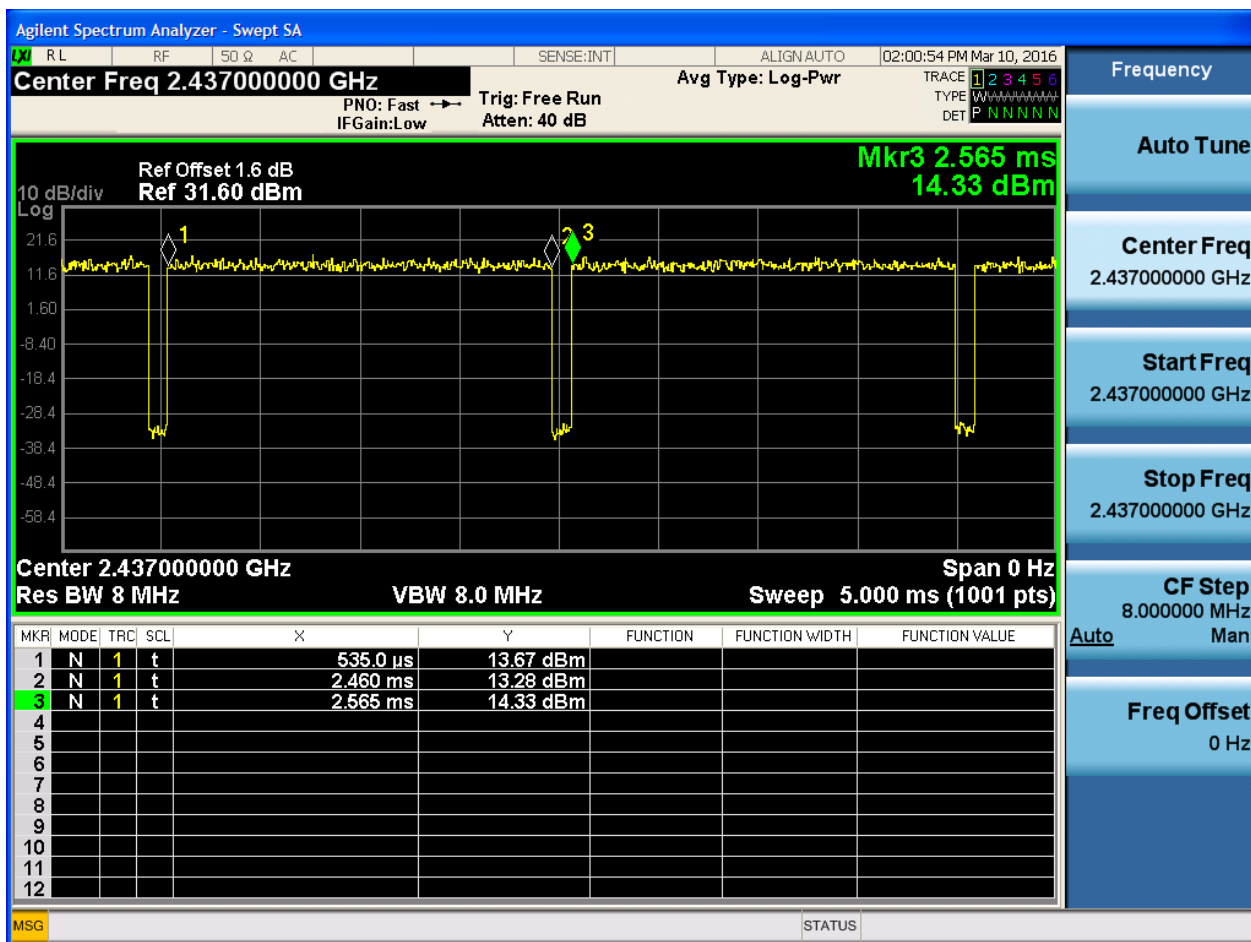
2.6 11N20_Ant 2



2.7 11N20m_Ant 1



2.8 11N20m_Ant 2



Appendix D: Maximum Conducted Average Output Power

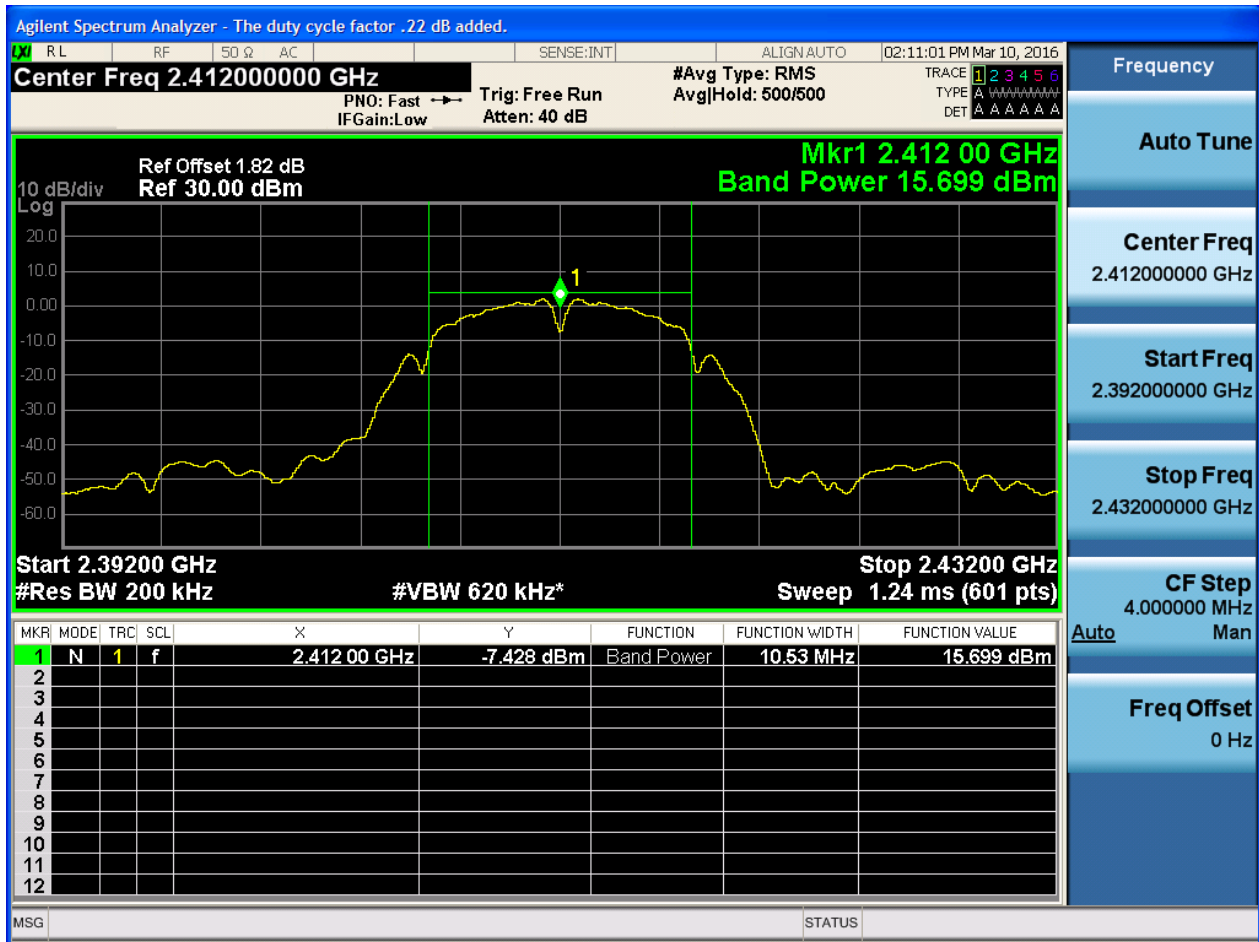
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Power[dBm]	Verdict
11B	L	2412	Ant 1	15.70	pass
11B	L	2412	Ant 2	15.52	pass
11B	M	2437	Ant 1	15.96	pass
11B	M	2437	Ant 2	15.66	pass
11B	H	2462	Ant 1	16.42	pass
11B	H	2462	Ant 2	15.84	pass
11G	L	2412	Ant 1	15.44	pass
11G	L	2412	Ant 2	15.18	pass
11G	M	2437	Ant 1	15.68	pass
11G	M	2437	Ant 2	15.32	pass
11G	H	2462	Ant 1	15.80	pass
11G	H	2462	Ant 2	15.28	pass
11N20	L	2412	Ant 1	15.20	pass
11N20	L	2412	Ant 2	14.97	pass
11N20	M	2437	Ant 1	15.39	pass
11N20	M	2437	Ant 2	15.10	pass
11N20	H	2462	Ant 1	15.64	pass
11N20	H	2462	Ant 2	15.06	pass
11N20m	L	2412	Ant 1	12.12	pass
11N20m	L	2412	Ant 2	11.78	pass
11N20m	L	2412	Ant sum	14.96	pass
11N20m	M	2437	Ant 1	12.27	pass
11N20m	M	2437	Ant 2	11.84	pass
11N20m	M	2437	Ant sum	15.07	pass
11N20m	H	2462	Ant 1	12.50	pass
11N20m	H	2462	Ant 2	11.90	pass
11N20m	H	2462	Ant sum	15.22	pass



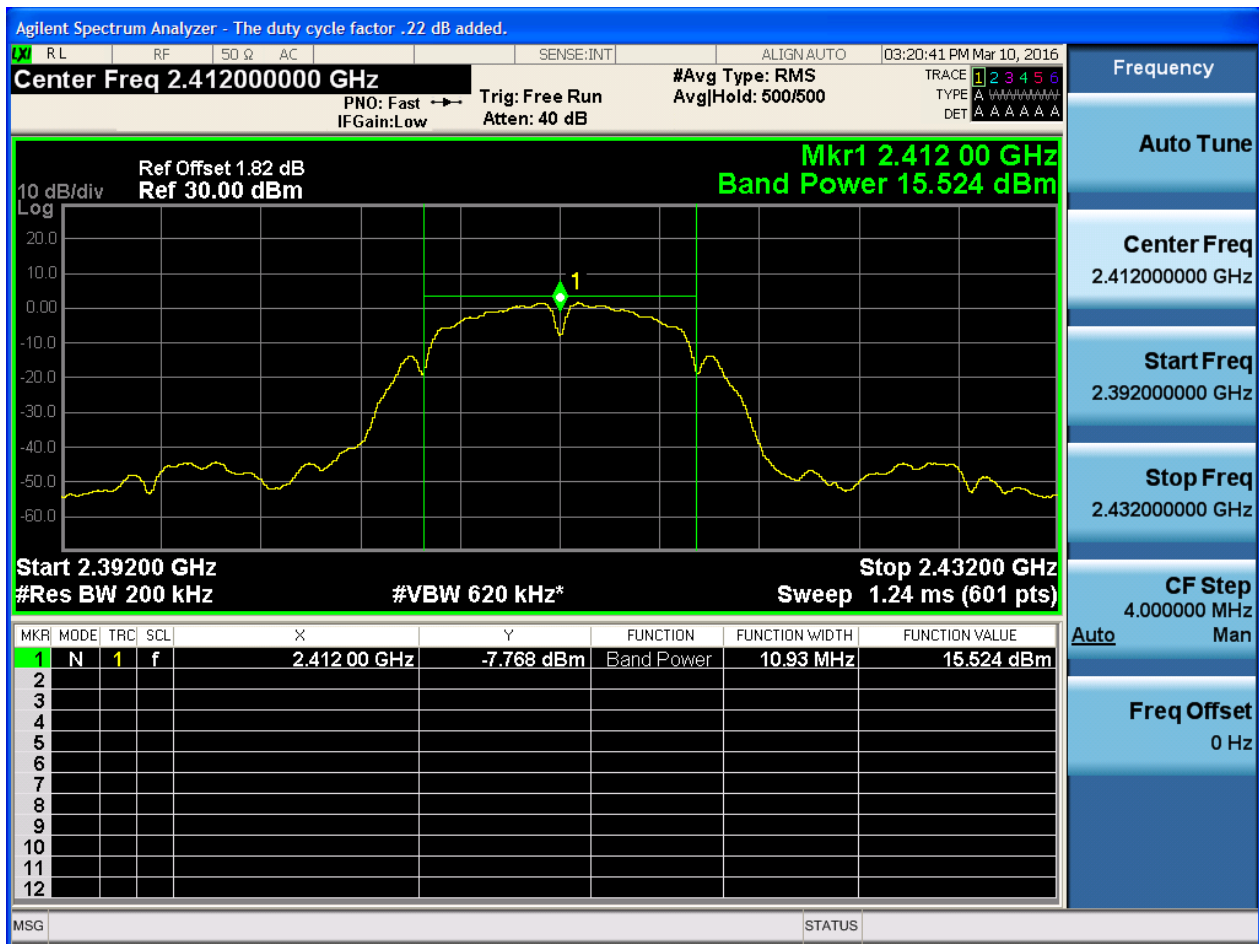
Part II - Test Plots

2.1 11B_L@Ant 1



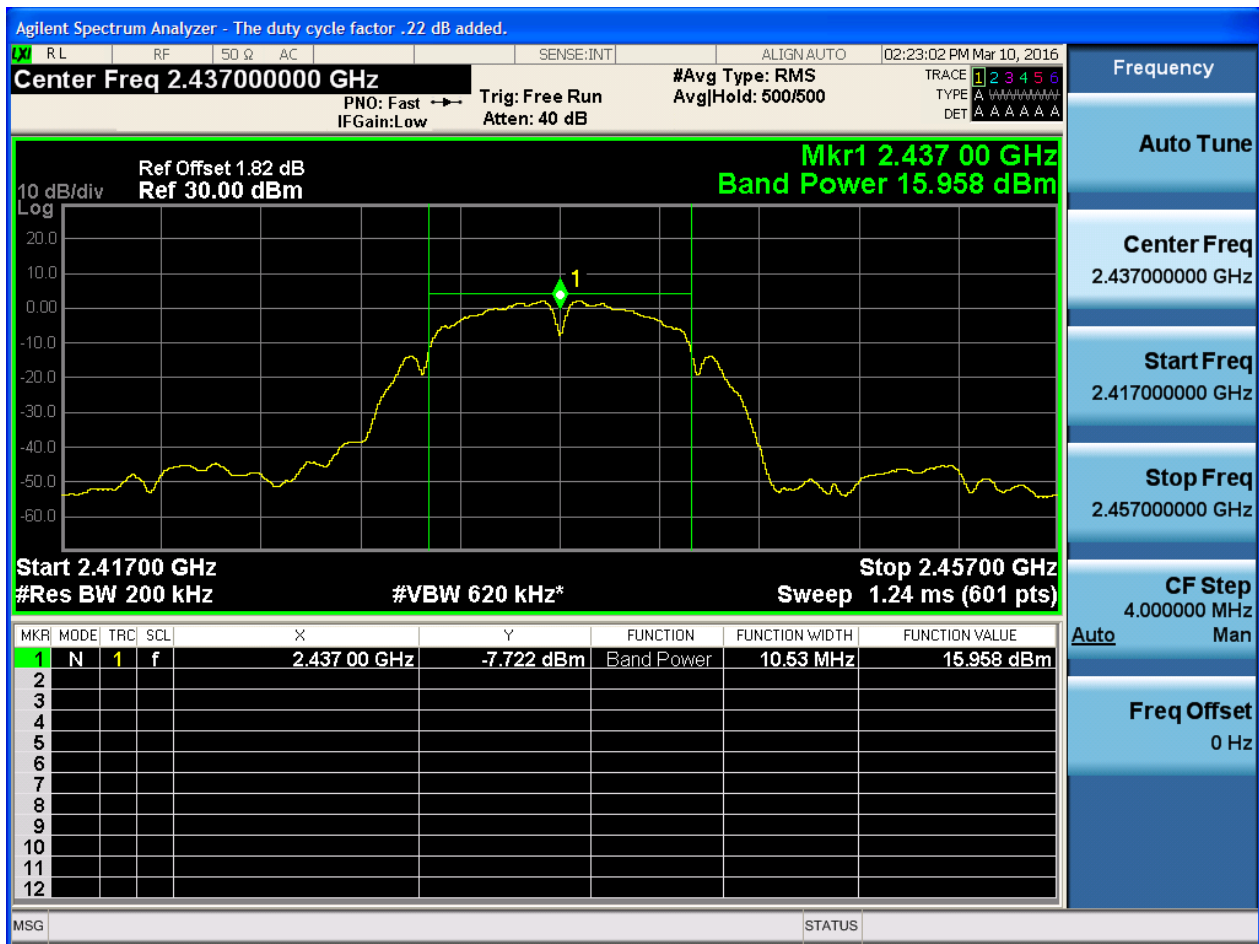


2.2 11B_L@Ant 2



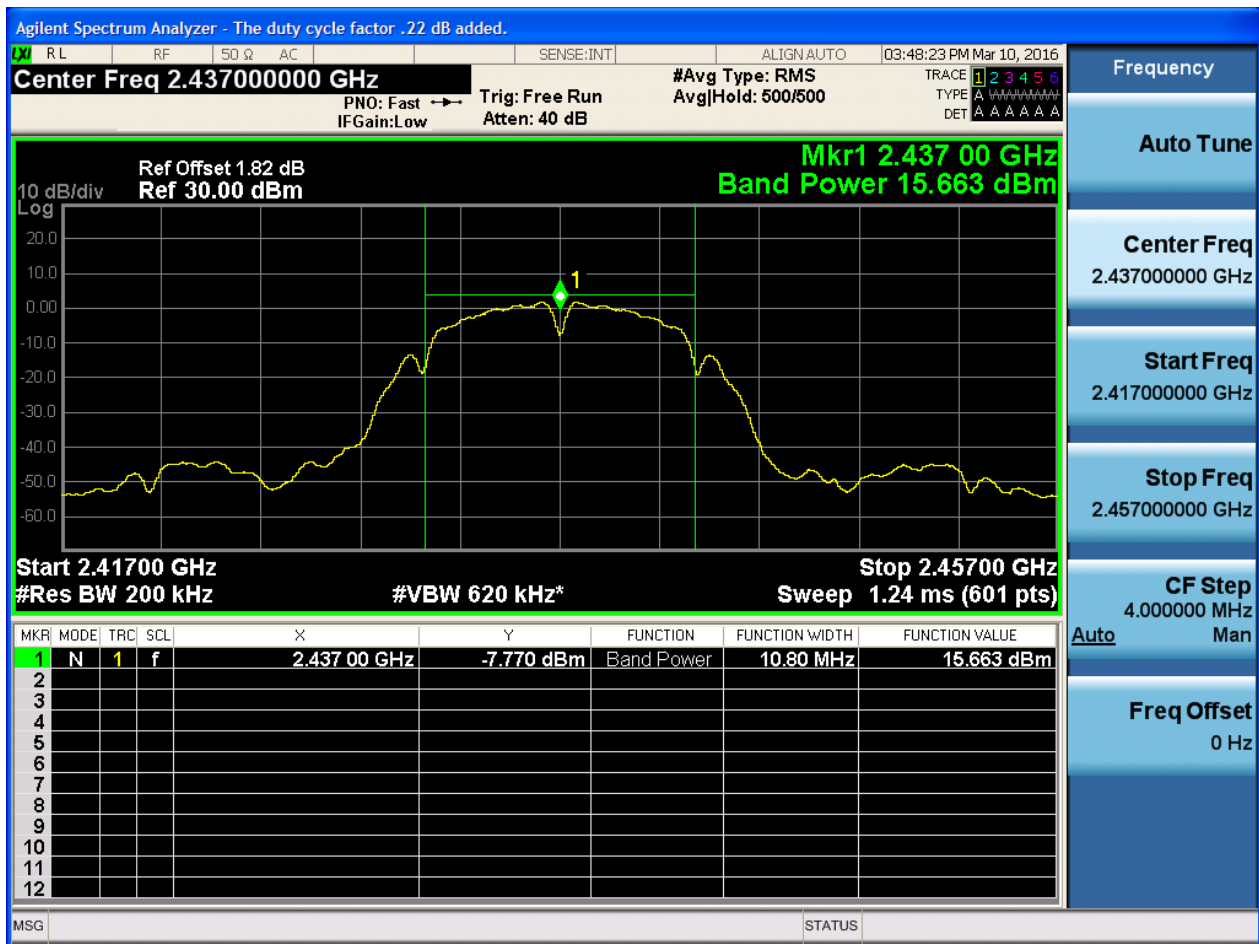


2.3 11B_M@Ant 1



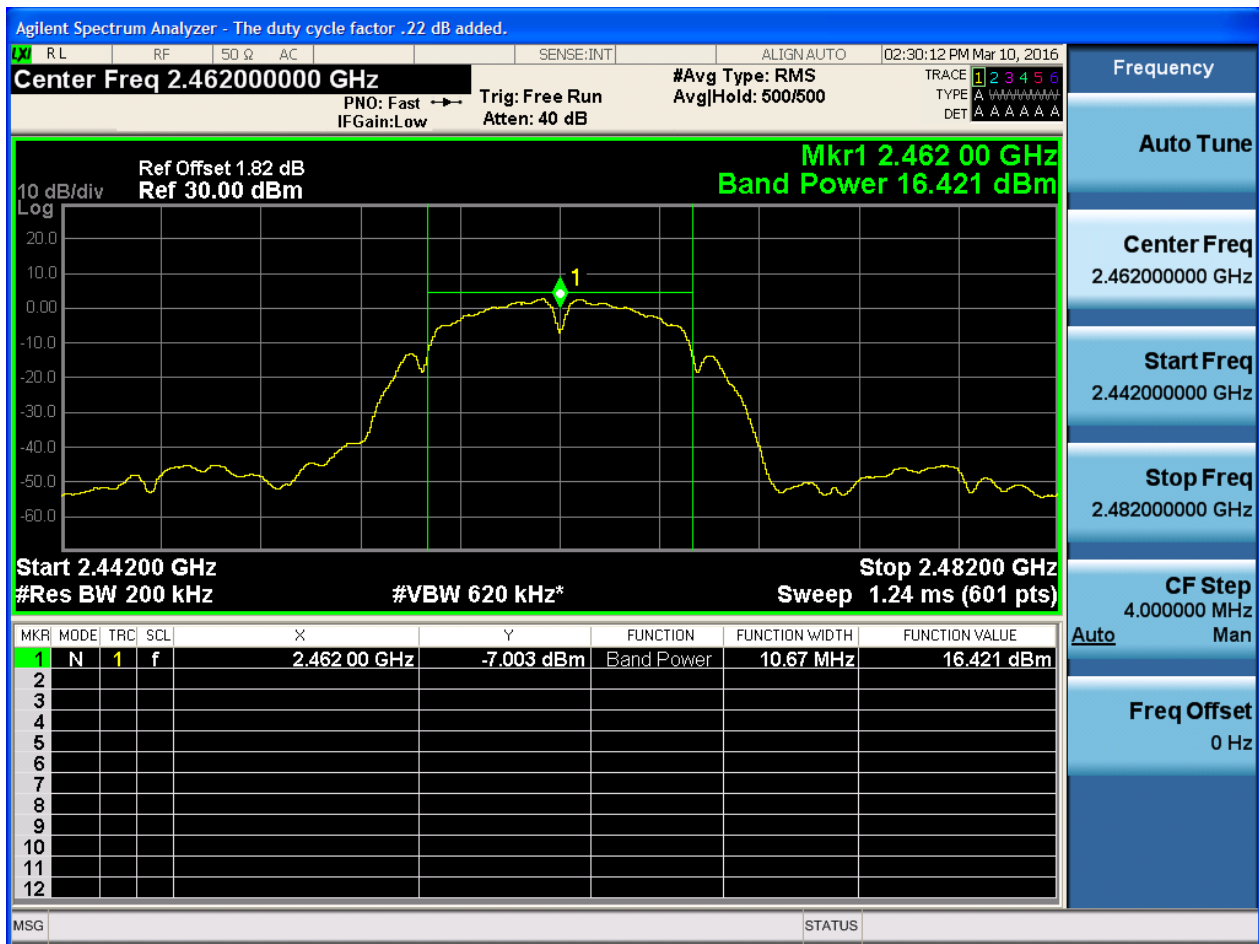


2.4 11B_M@Ant 2



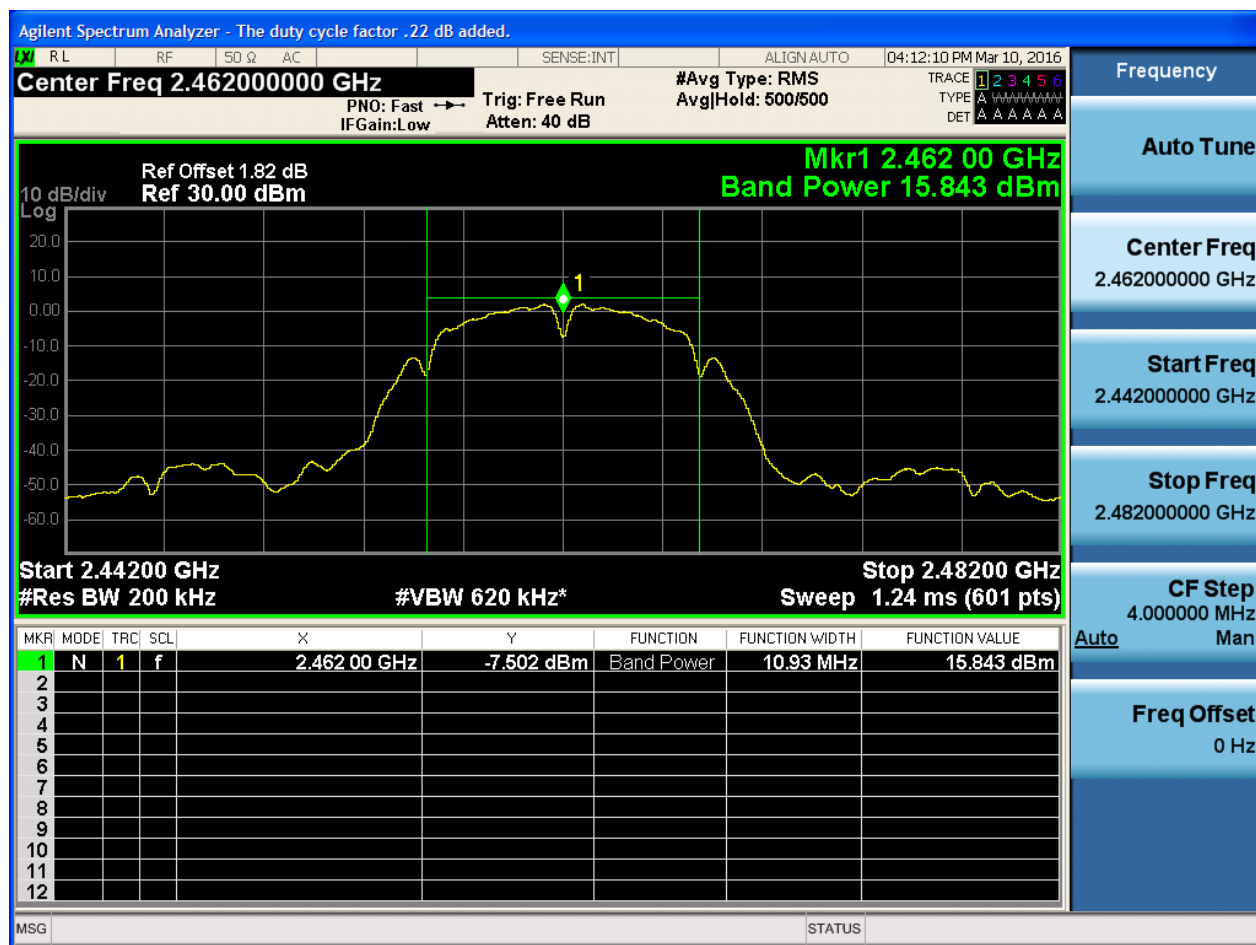


2.5 11B_H@Ant 1



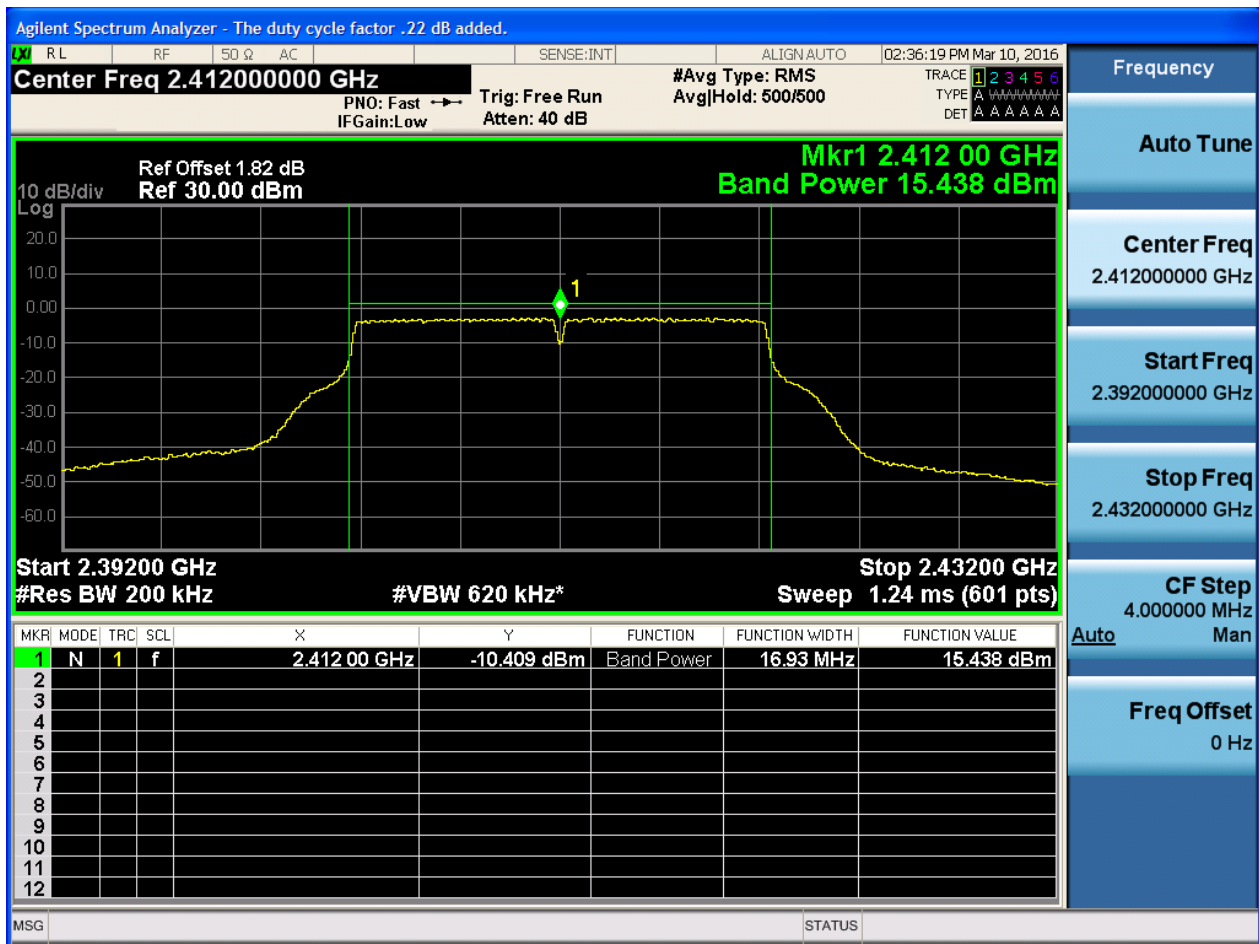


2.6 11B_H@Ant 2



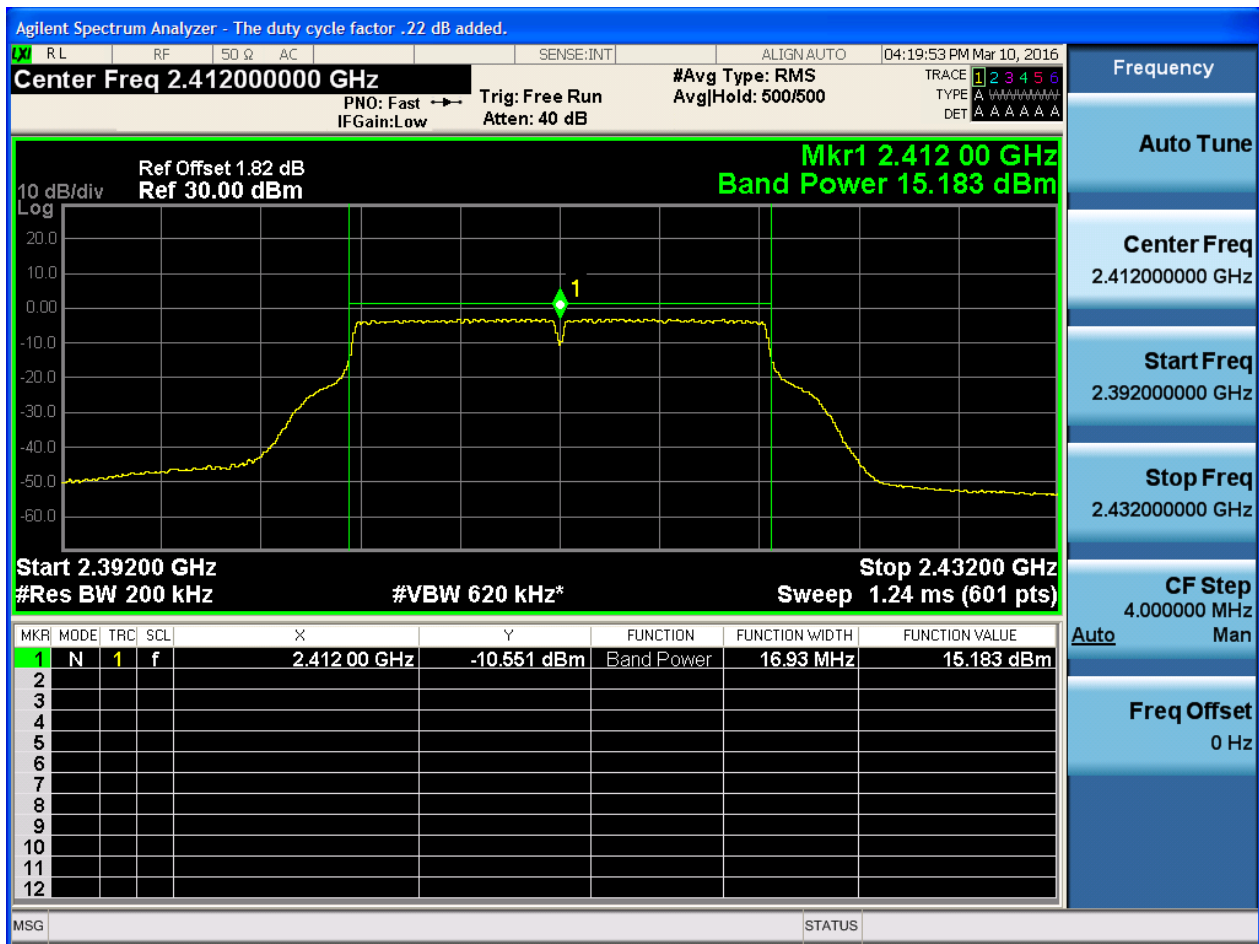


2.7 11G_L@Ant 1



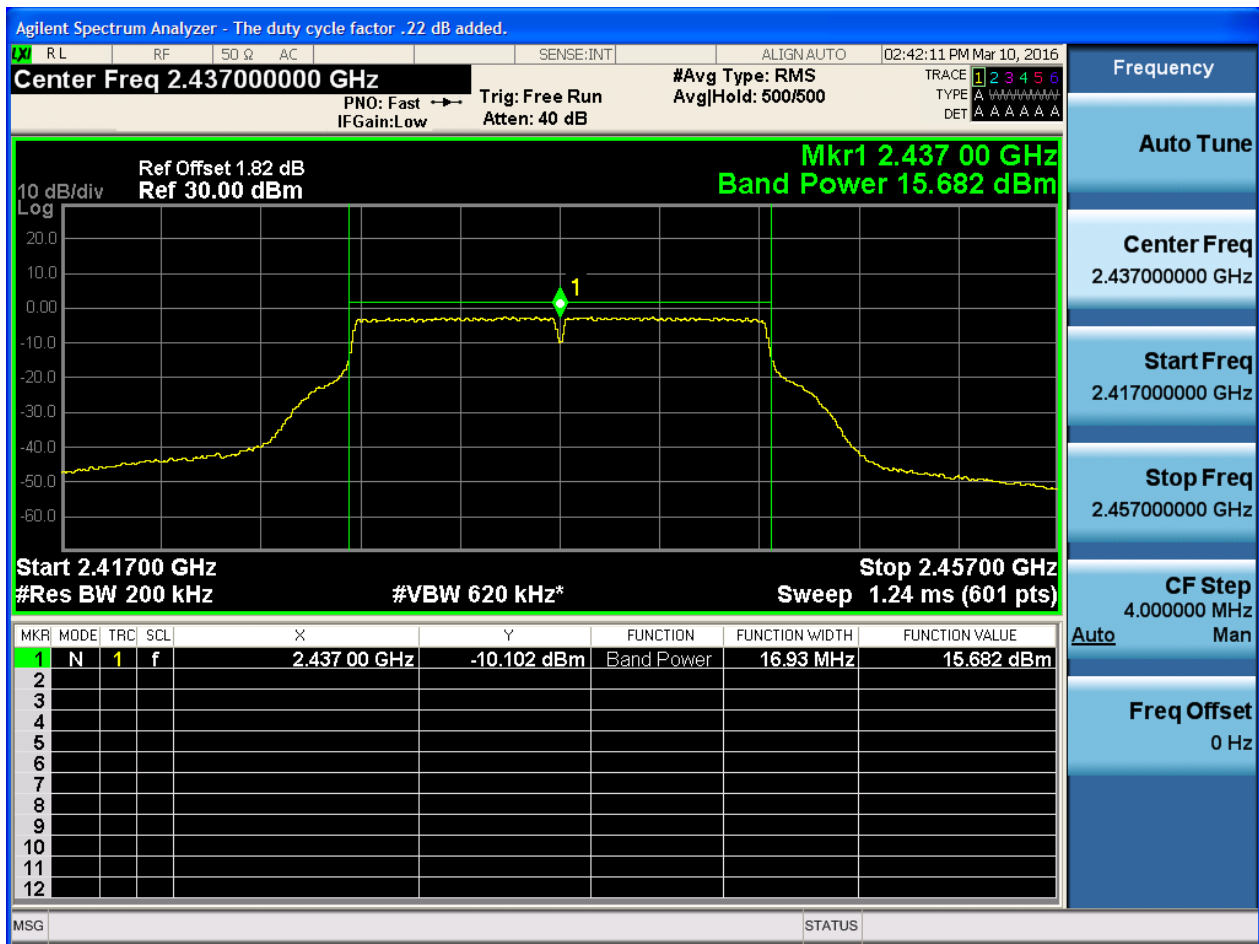


2.8 11G_L@Ant 2



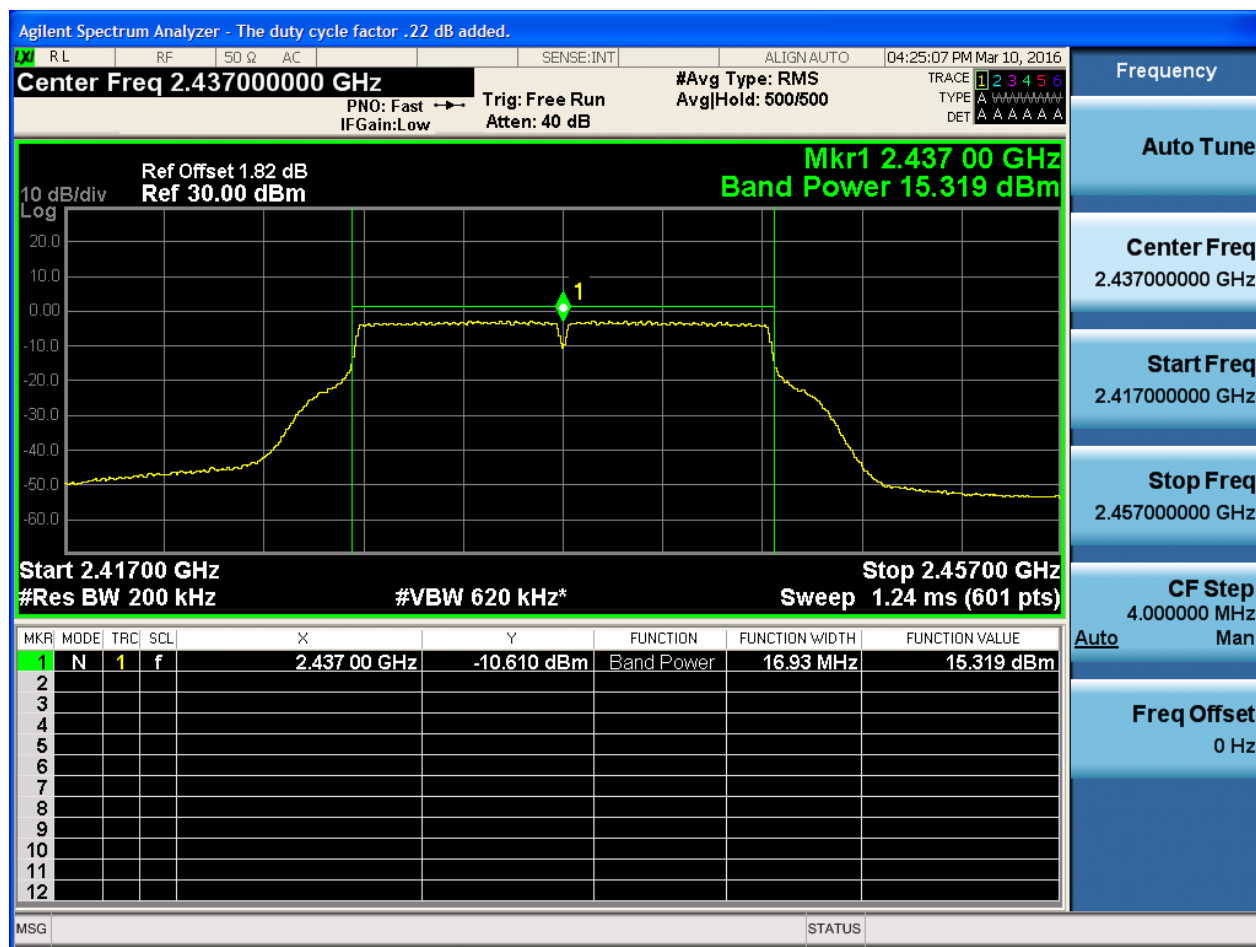


2.9 11G_M@Ant 1



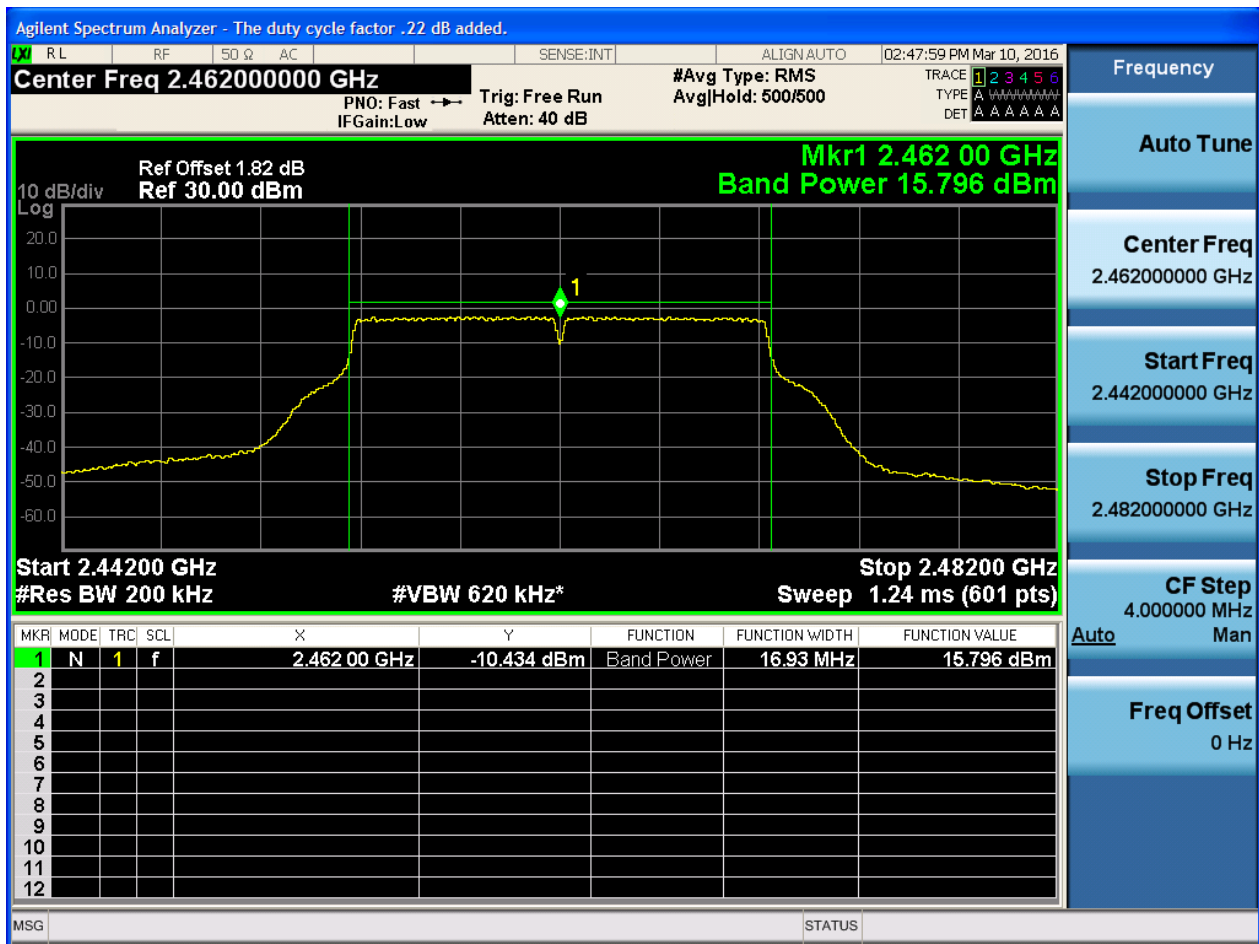


2.10 11G_M@Ant 2



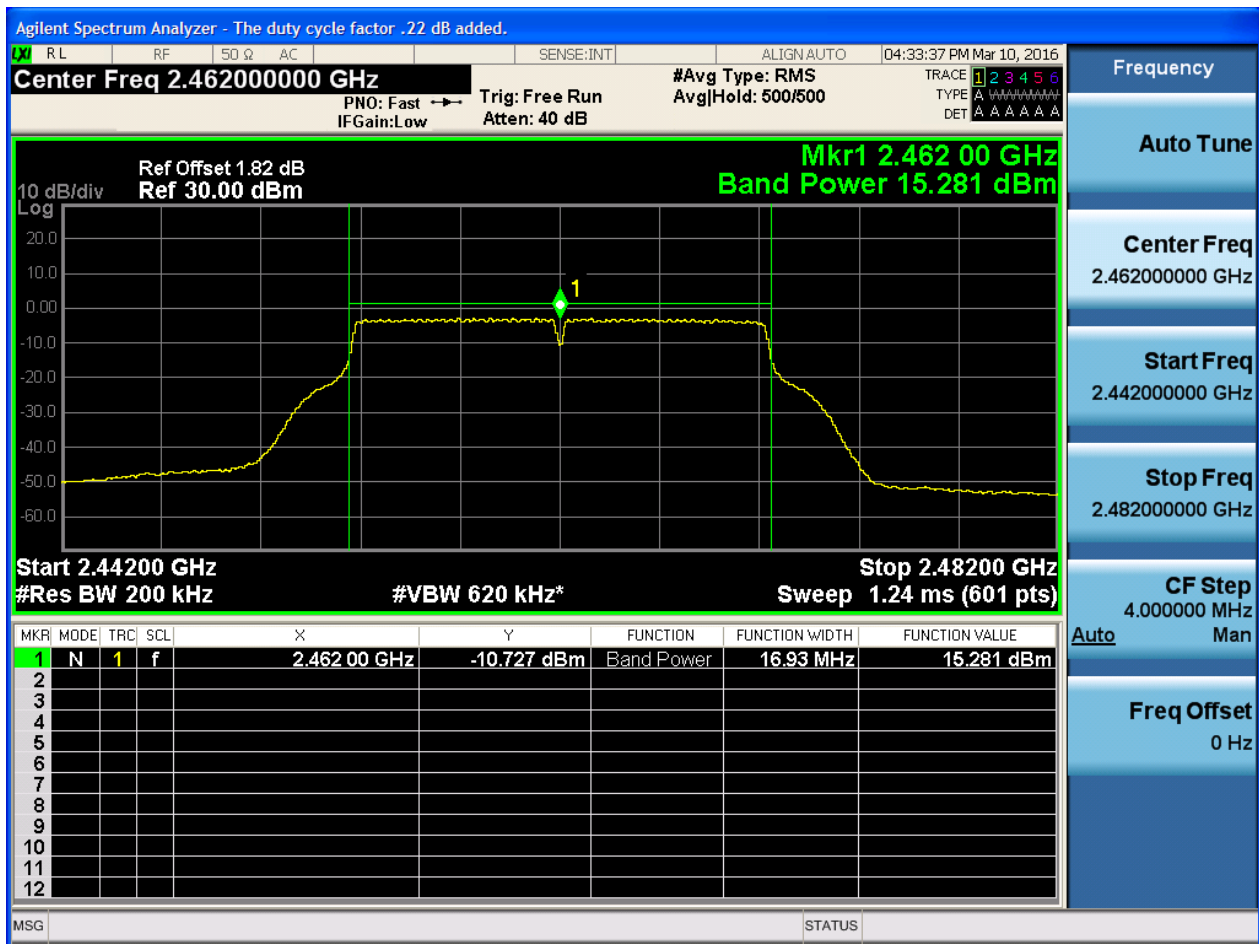


2.11 11G_H@Ant 1



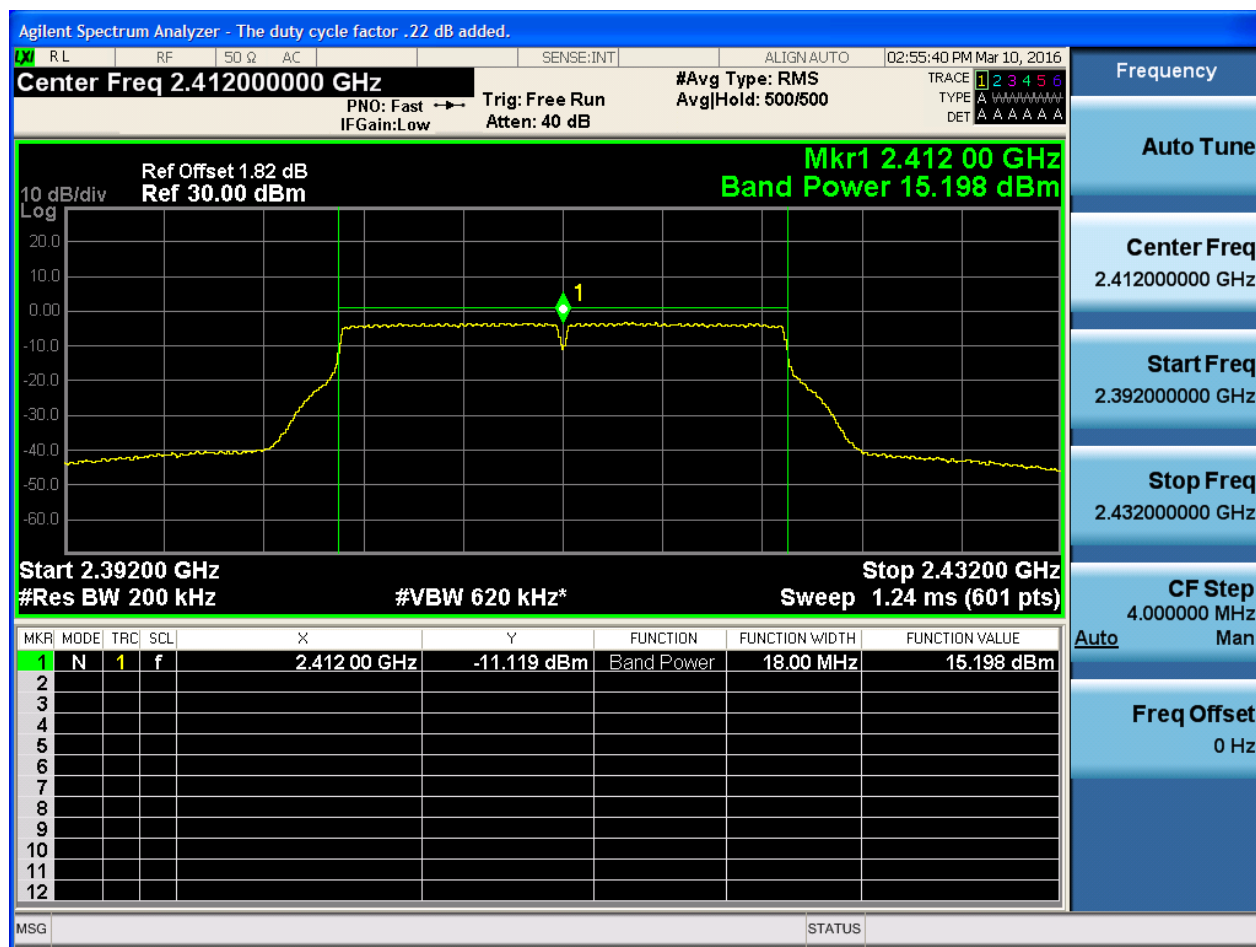


2.12 11G_H@Ant 2



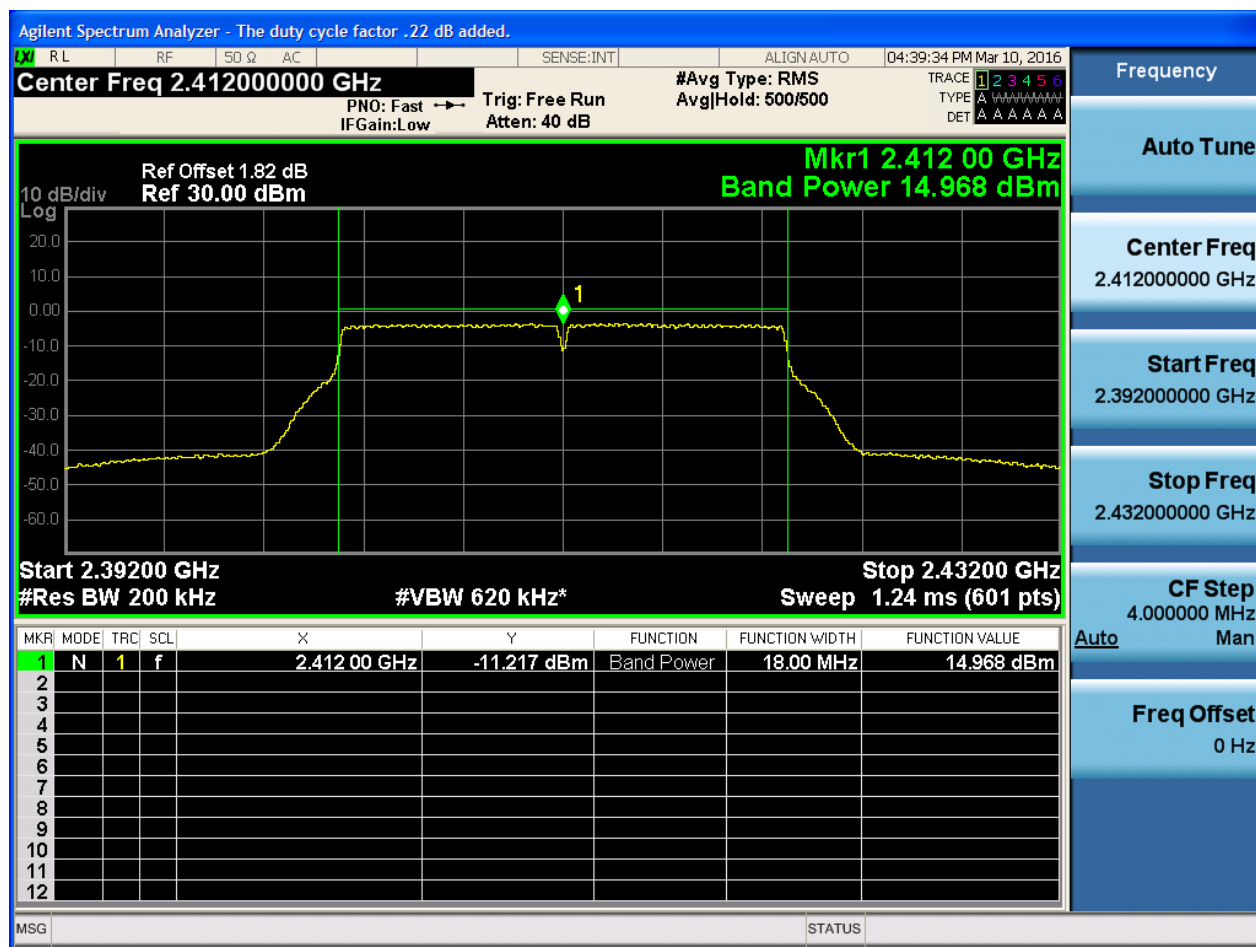


2.13 11N20_L@Ant 1



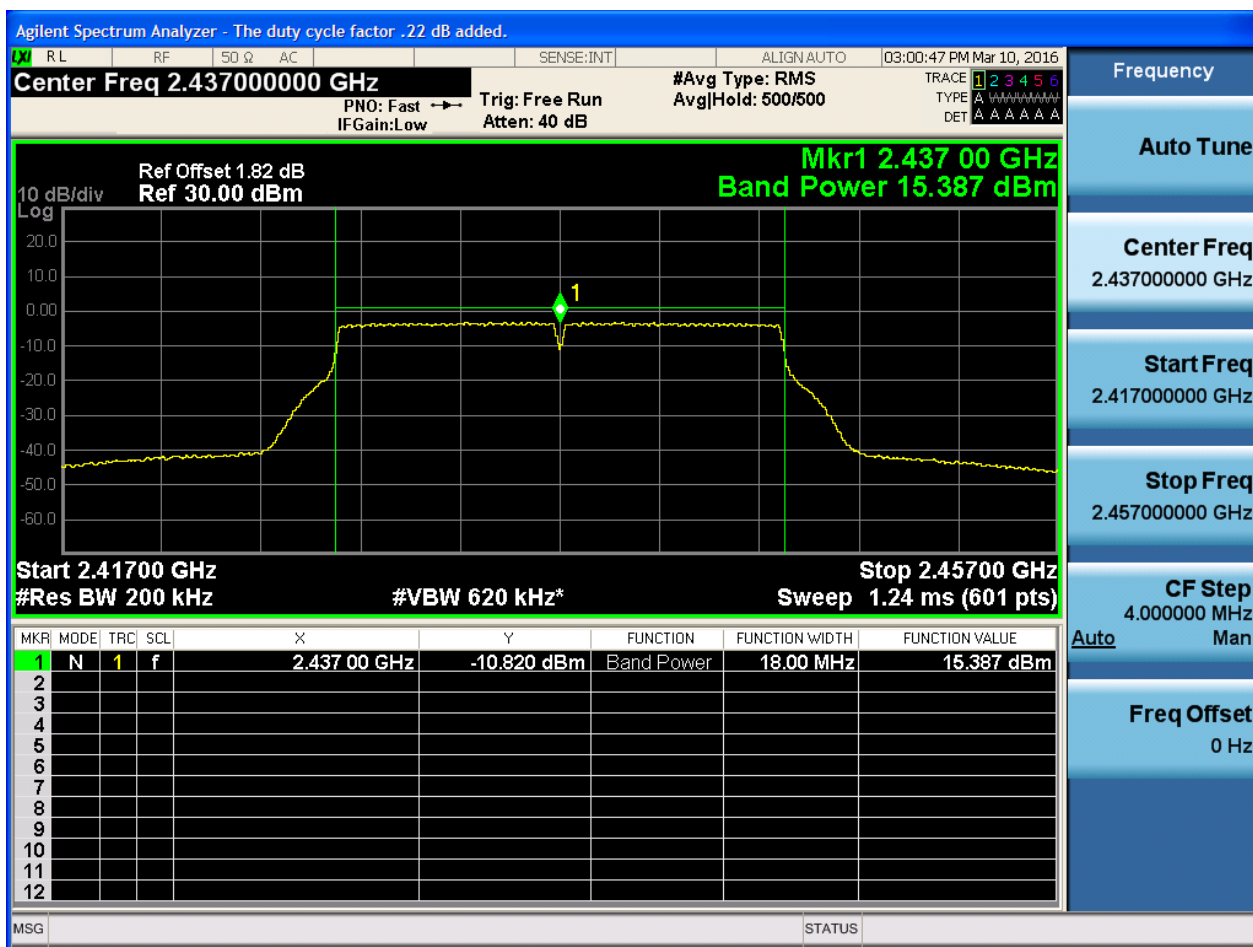


2.14 11N20_L@Ant 2



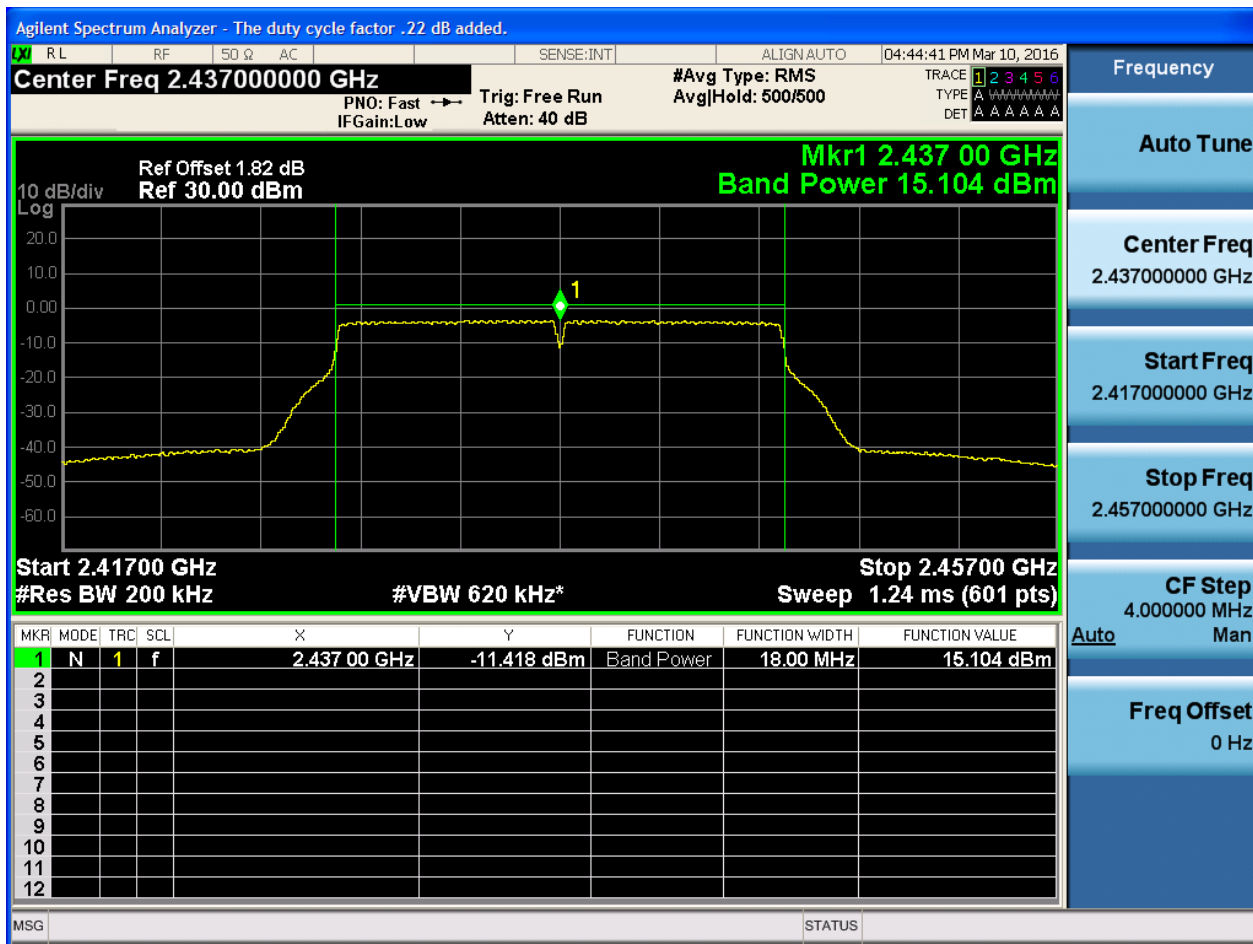


2.15 11N20_M@Ant 1



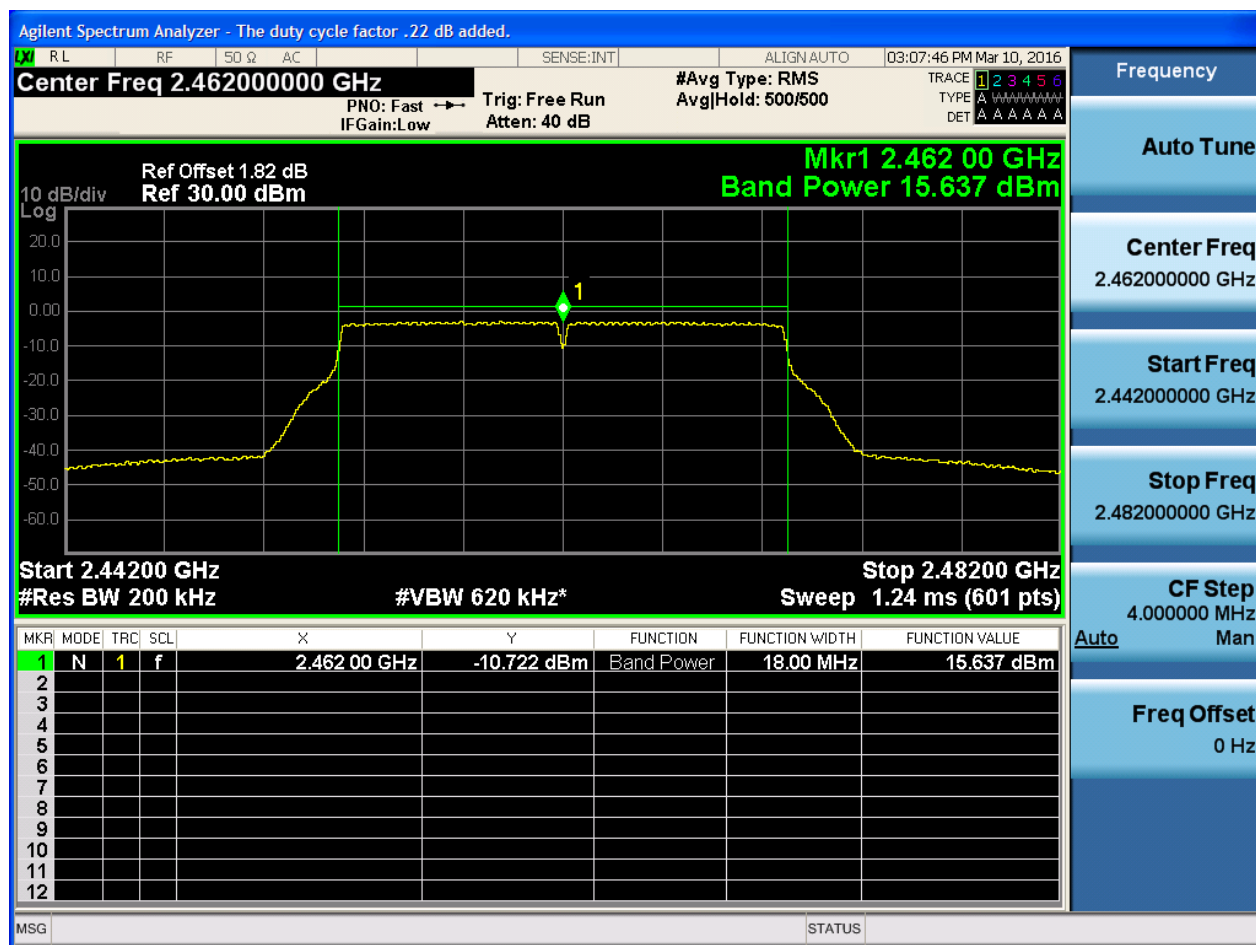


2.16 11N20_M@Ant 2



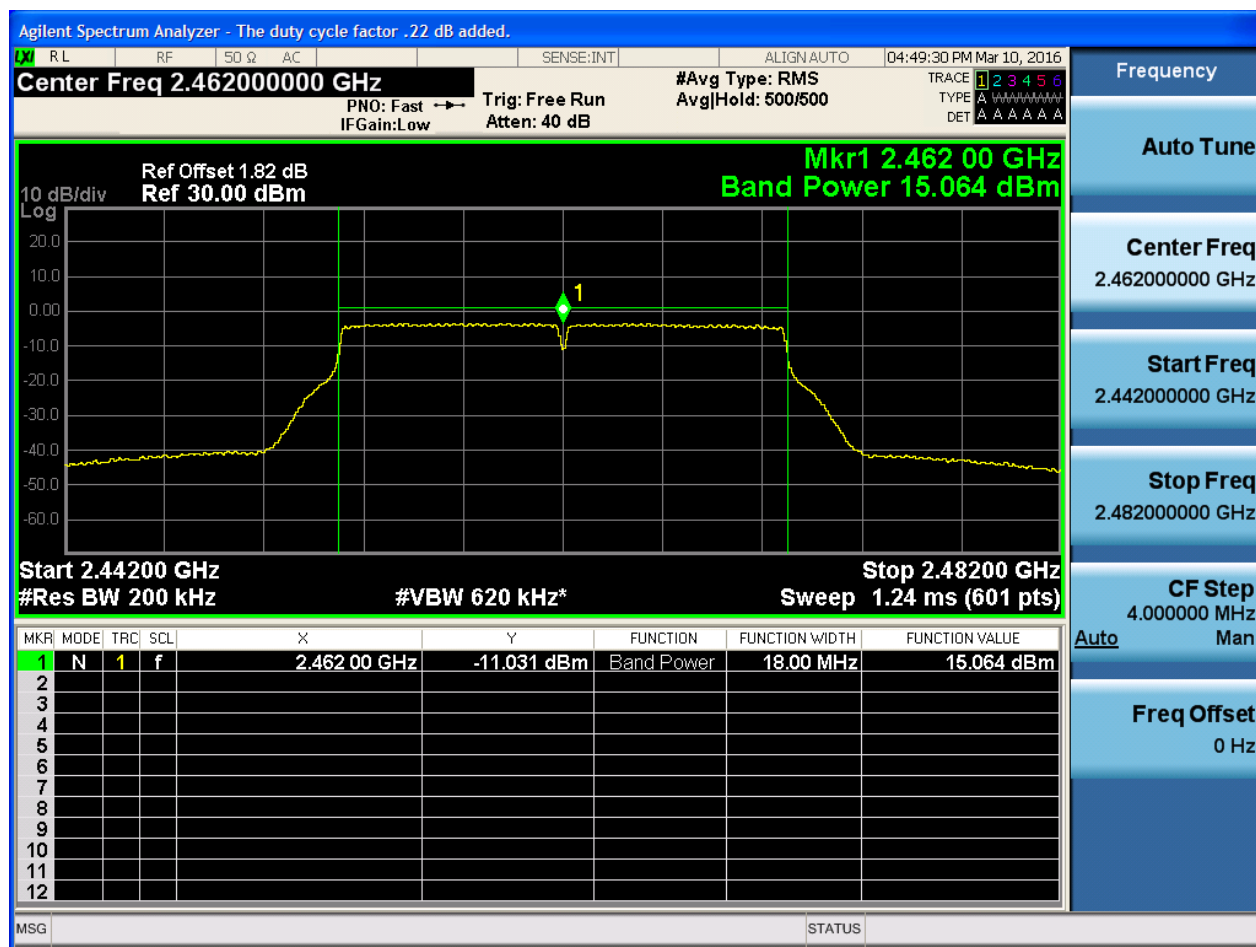


2.17 11N20_H@Ant 1



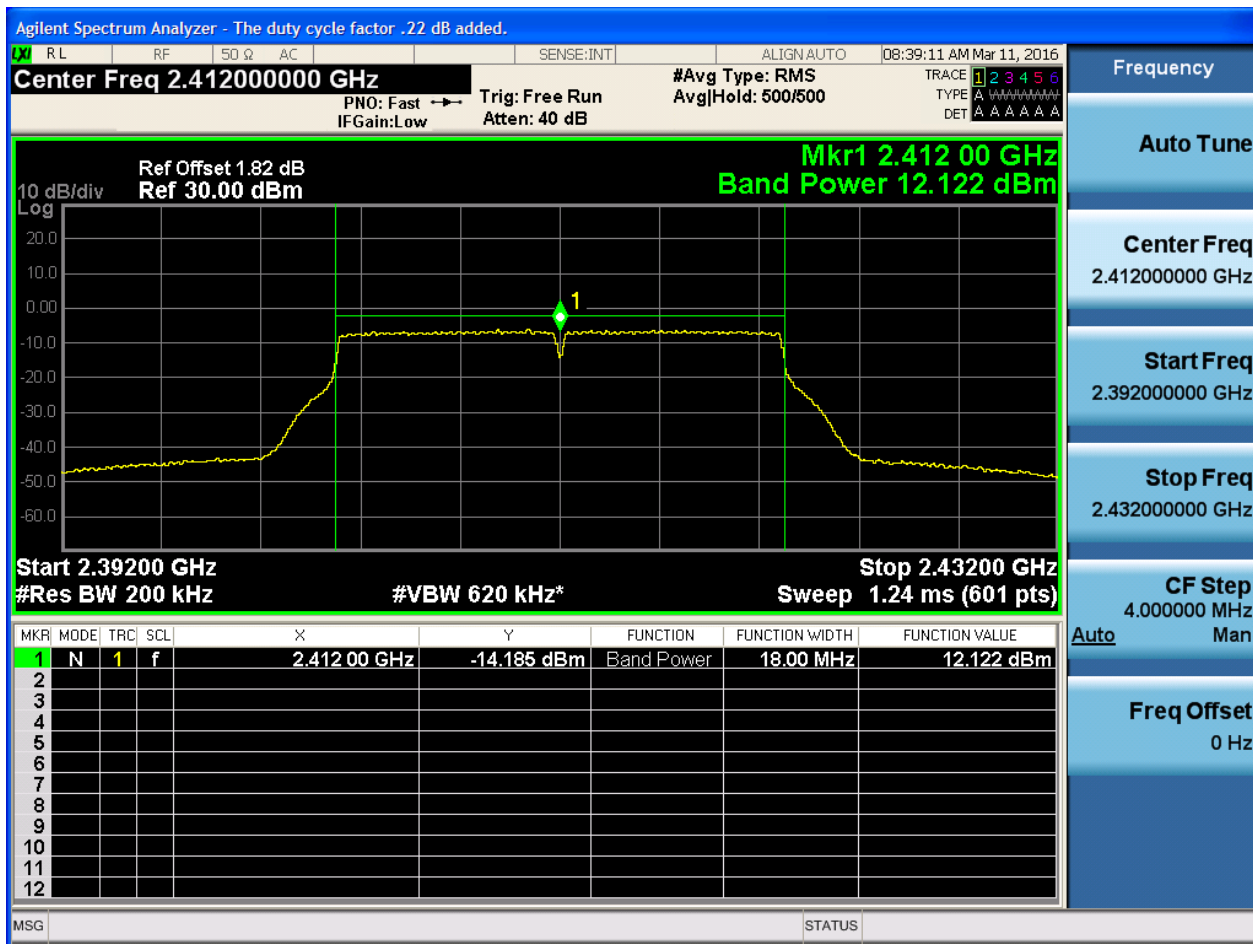


2.18 11N20_H@Ant 2



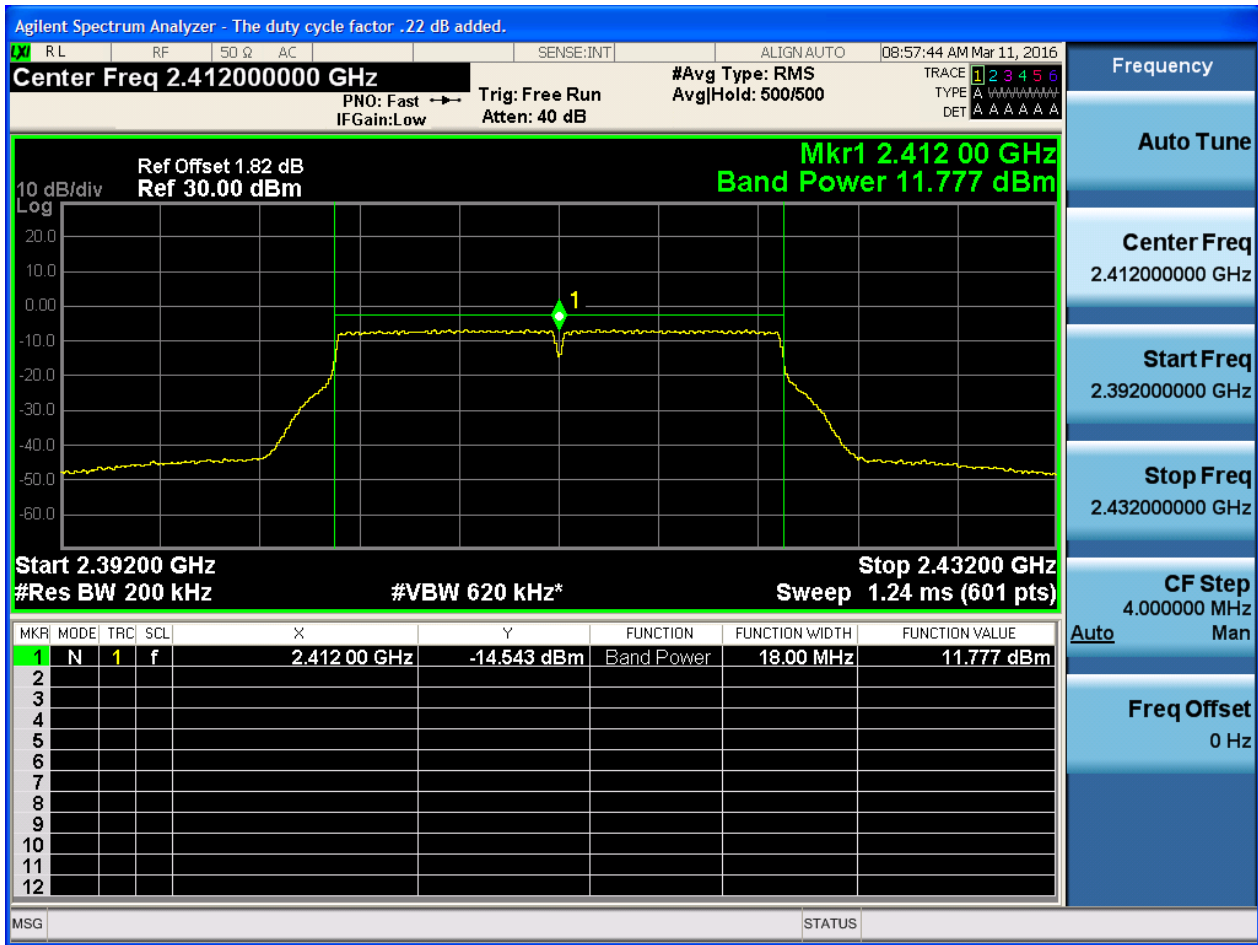


2.19 11N20m_L@Ant 1



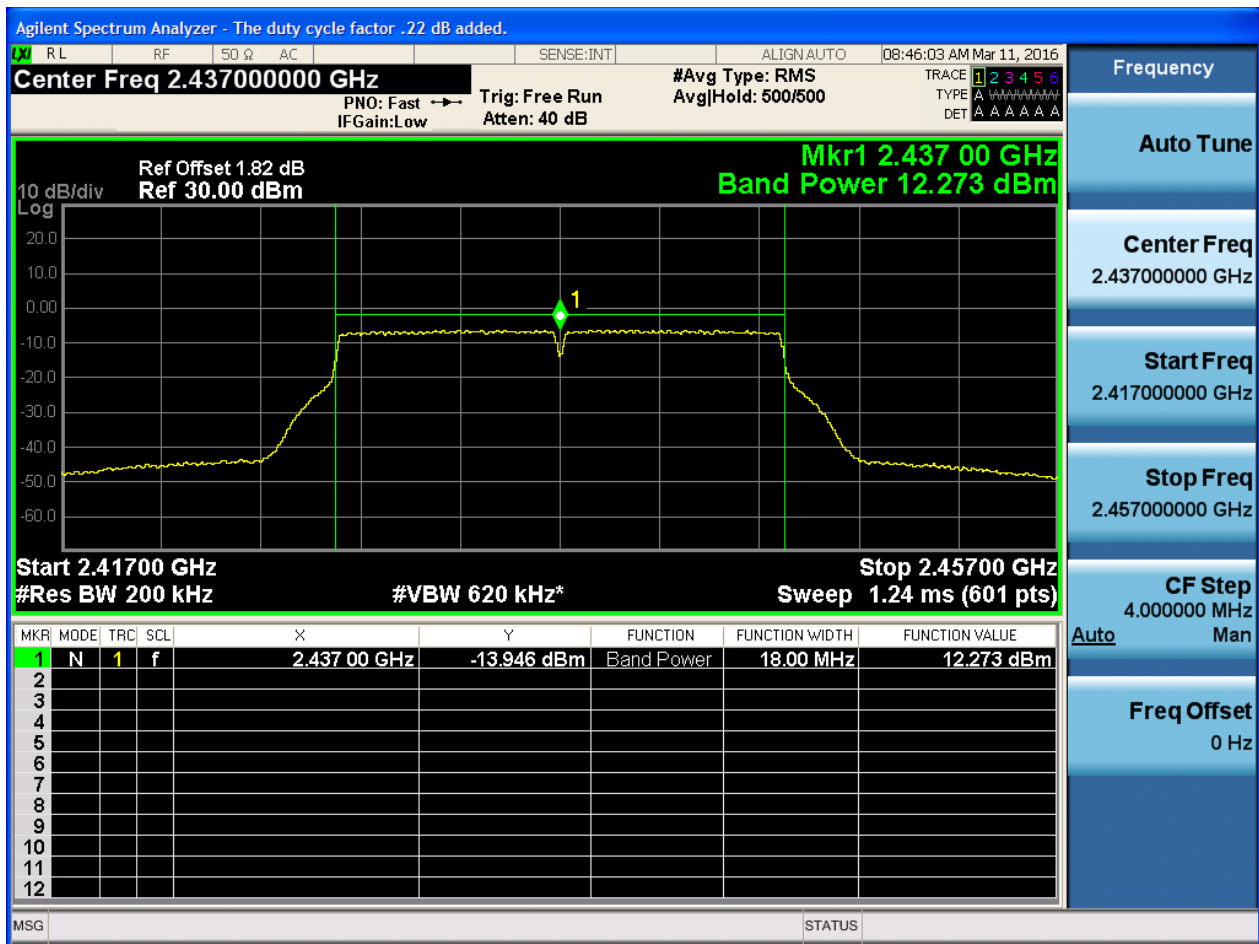


2.20 11N20m_L@Ant 2



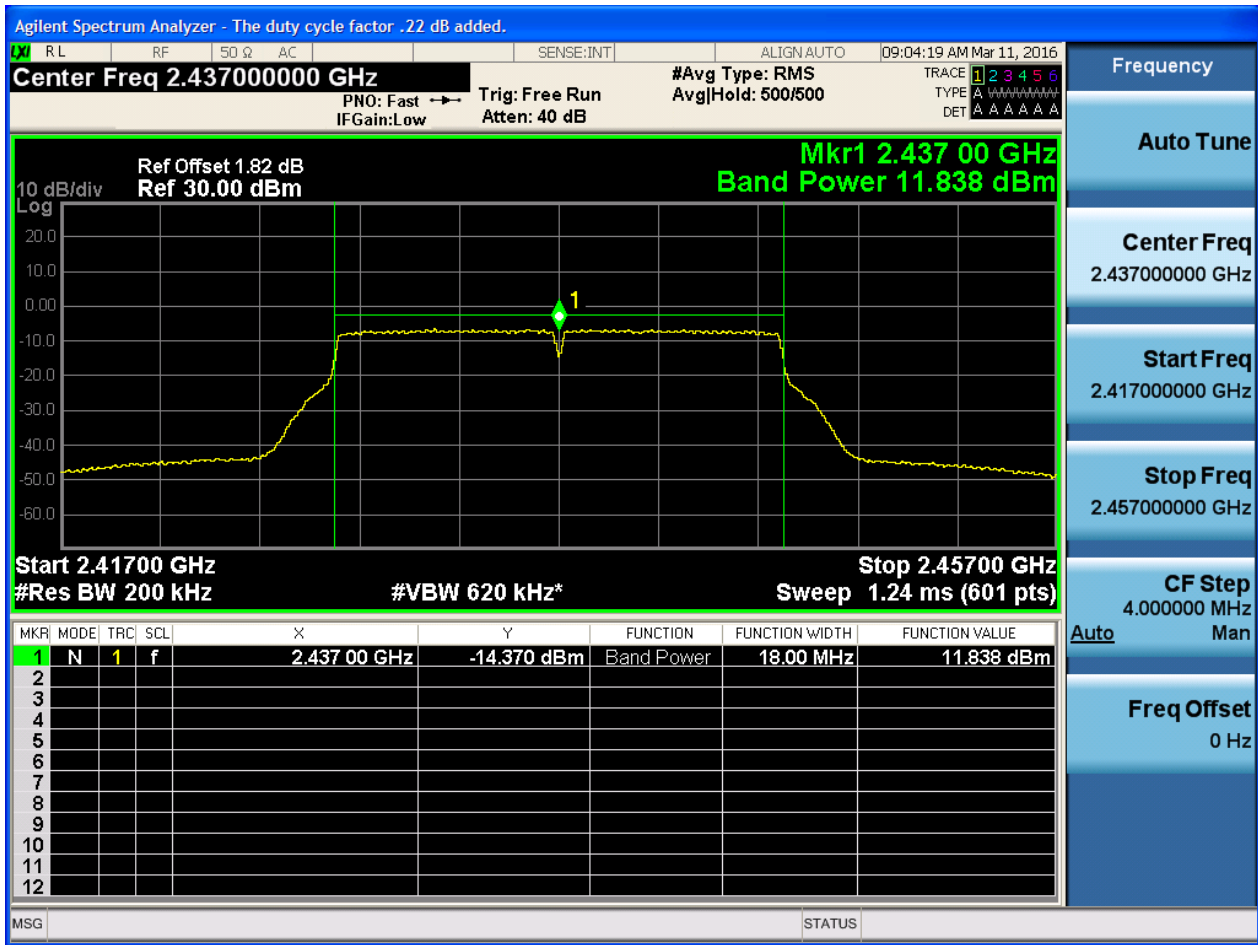


2.21 11N20m_M@Ant 1



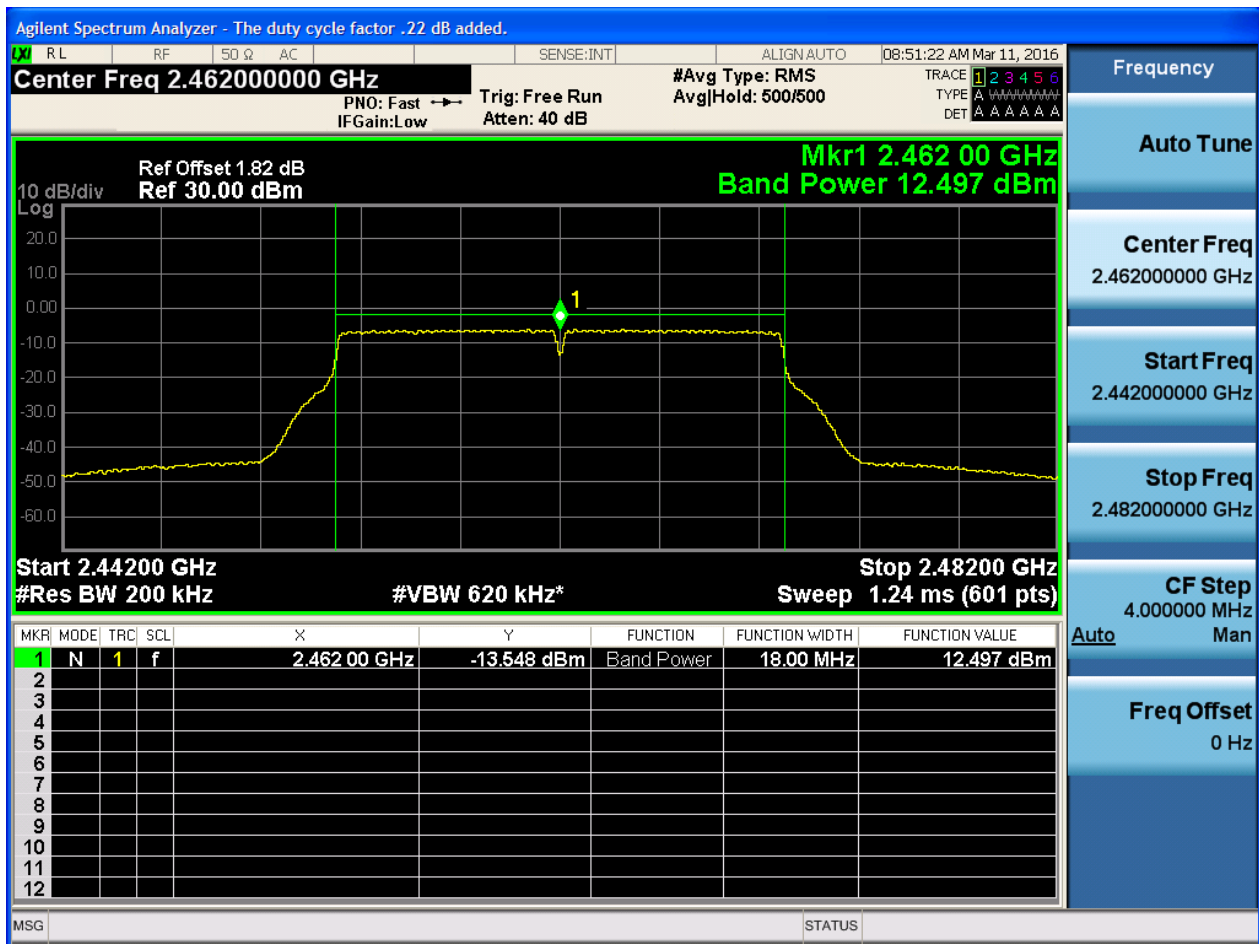


2.22 11N20m_M@Ant 2



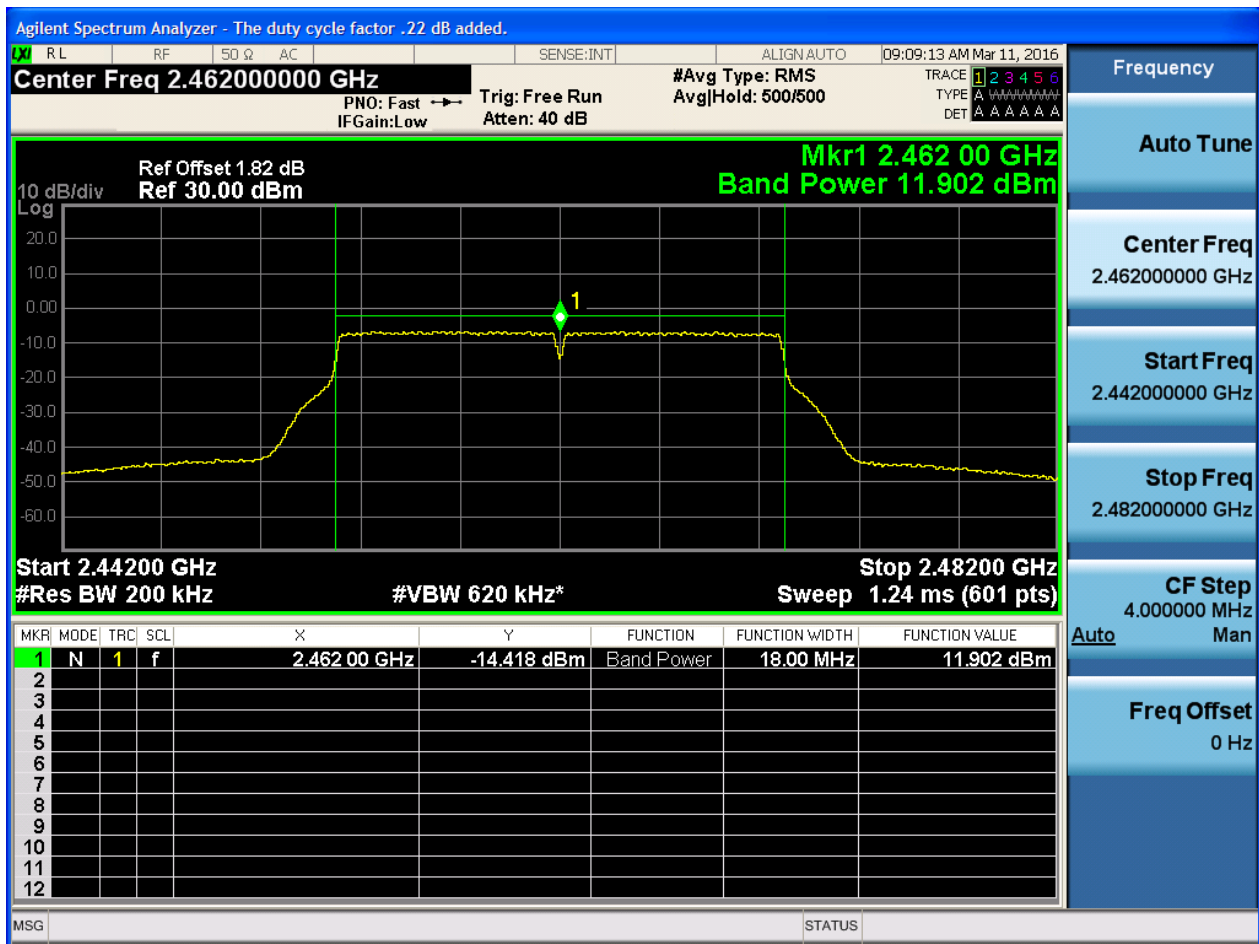


2.23 11N20m_H@Ant 1





2.24 11N20m_H@Ant 2



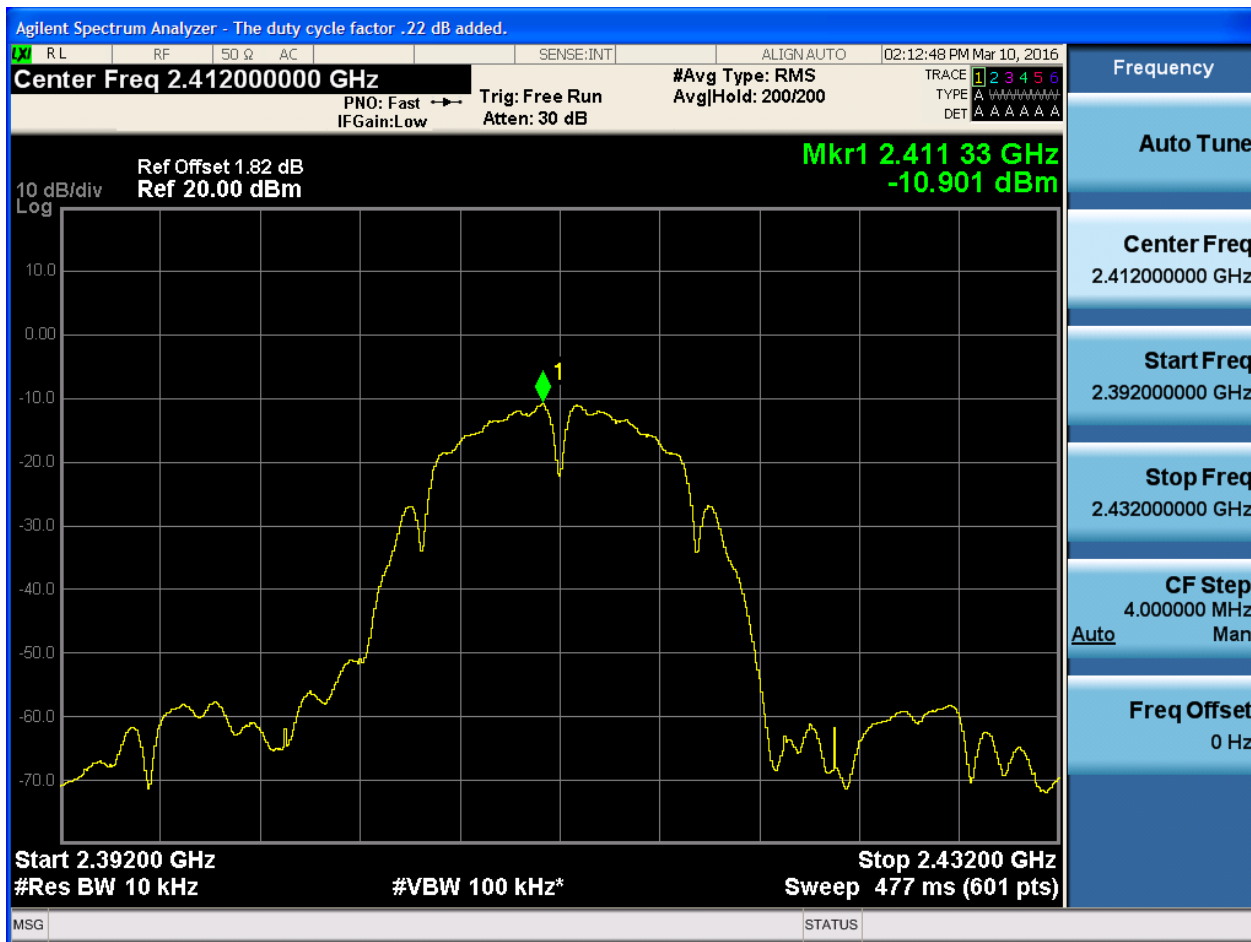
Appendix E: Maximum Power Spectral Density Level

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	PD[MHz]	Verdict
11B	L	2412	Ant 1	-10.90	pass
11B	L	2412	Ant 2	-11.32	pass
11B	M	2437	Ant 1	-10.72	pass
11B	M	2437	Ant 2	-11.20	pass
11B	H	2462	Ant 1	-10.19	pass
11B	H	2462	Ant 2	-11.00	pass
11G	L	2412	Ant 1	-14.18	pass
11G	L	2412	Ant 2	-14.31	pass
11G	M	2437	Ant 1	-13.93	pass
11G	M	2437	Ant 2	-14.28	pass
11G	H	2462	Ant 1	-13.85	pass
11G	H	2462	Ant 2	-14.28	pass
11N20	L	2412	Ant 1	-15.17	pass
11N20	L	2412	Ant 2	-15.42	pass
11N20	M	2437	Ant 1	-14.94	pass
11N20	M	2437	Ant 2	-15.15	pass
11N20	H	2462	Ant 1	-14.68	pass
11N20	H	2462	Ant 2	-14.92	pass
11N20m	L	2412	Ant 1	-18.20	pass
11N20m	L	2412	Ant 2	-18.64	pass
11N20m	L	2412	Ant sum	-15.40	pass
11N20m	M	2437	Ant 1	-18.03	pass
11N20m	M	2437	Ant 2	-18.45	pass
11N20m	M	2437	Ant sum	-15.22	pass
11N20m	H	2462	Ant 1	-17.93	pass
11N20m	H	2462	Ant 2	-18.50	pass
11N20m	H	2462	Ant sum	-15.20	pass

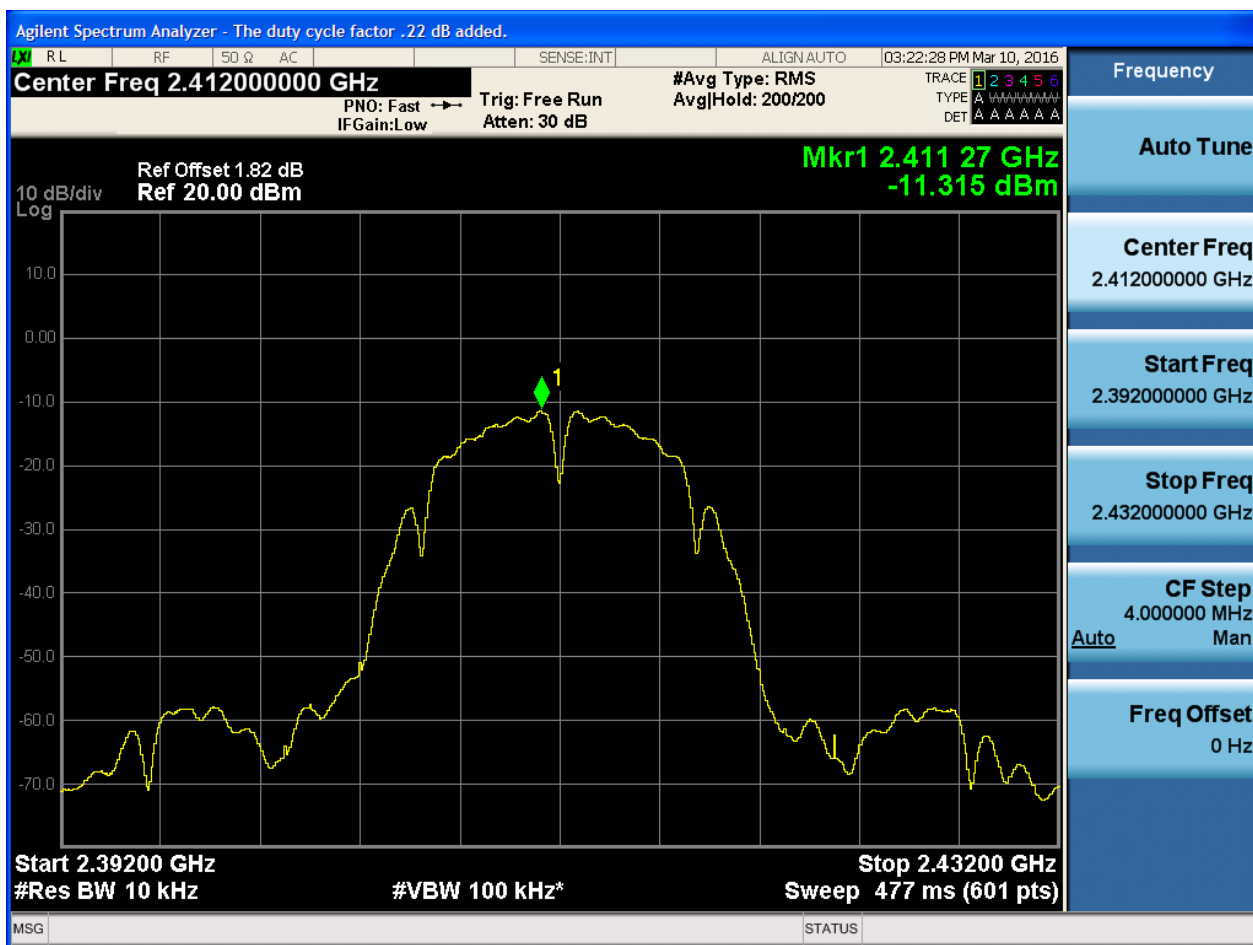
Part II - Test Plots

2.1 11B_L@Ant 1



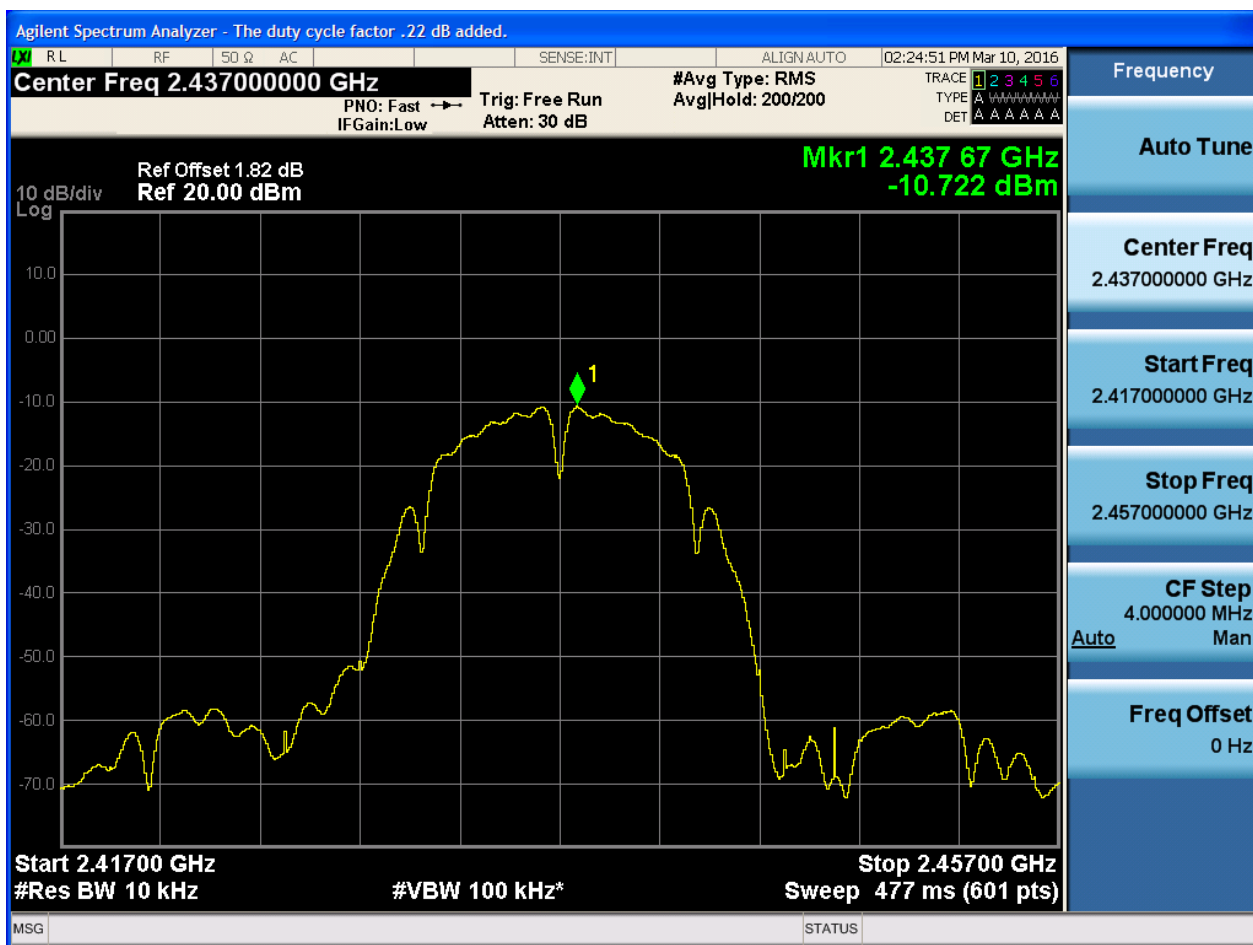


2.2 11B_L@Ant 2



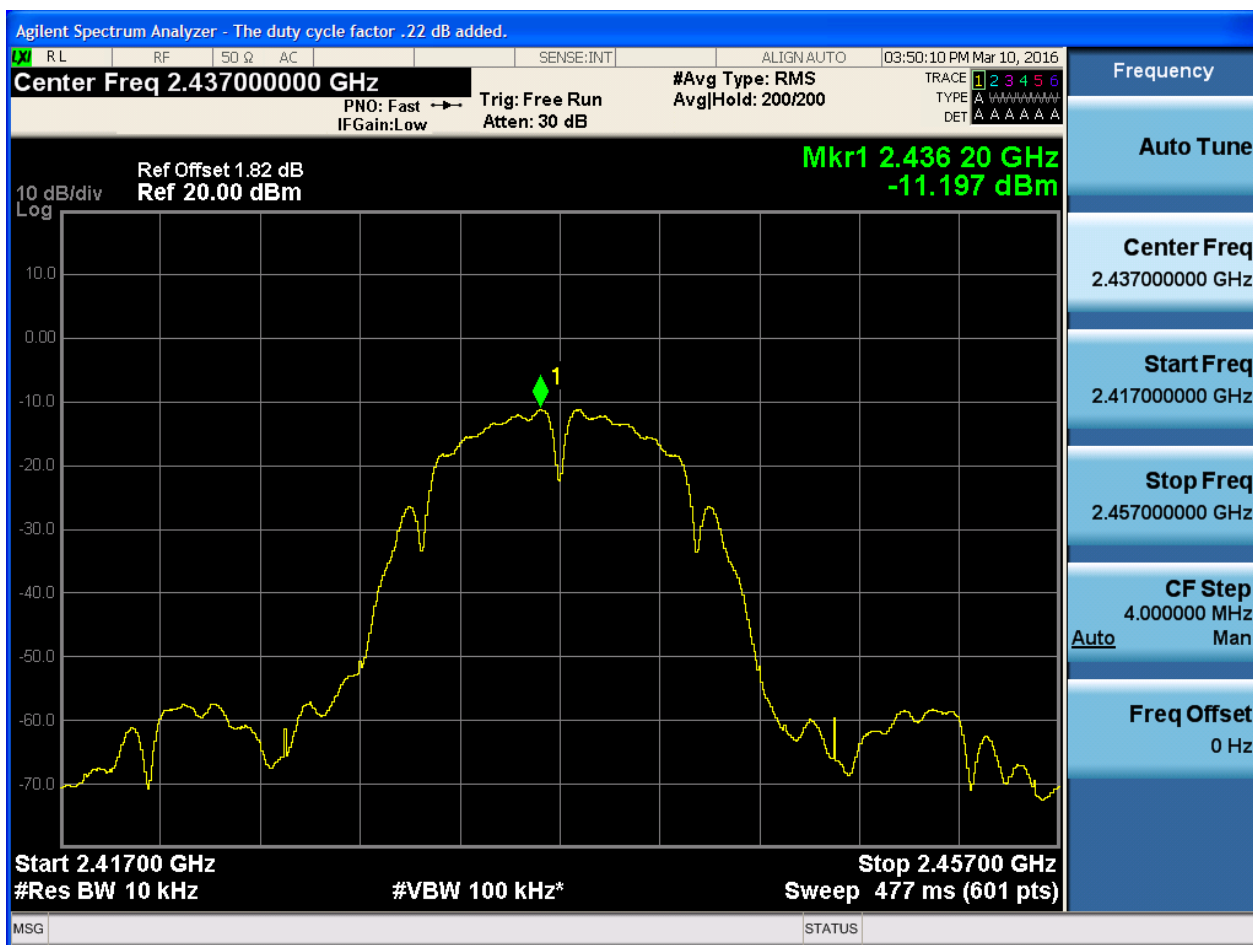


2.3 11B_M@Ant 1



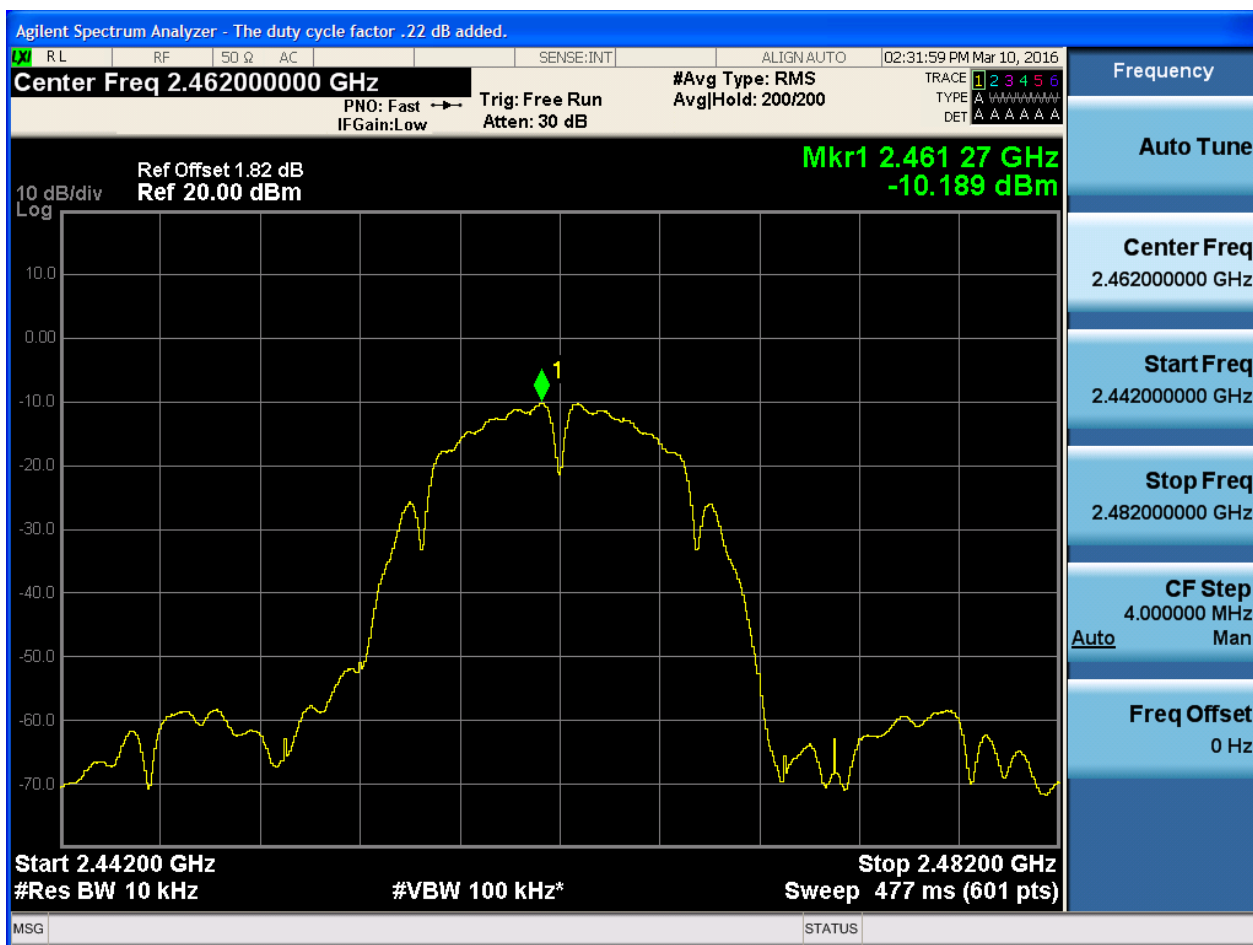


2.4 11B_M@Ant 2



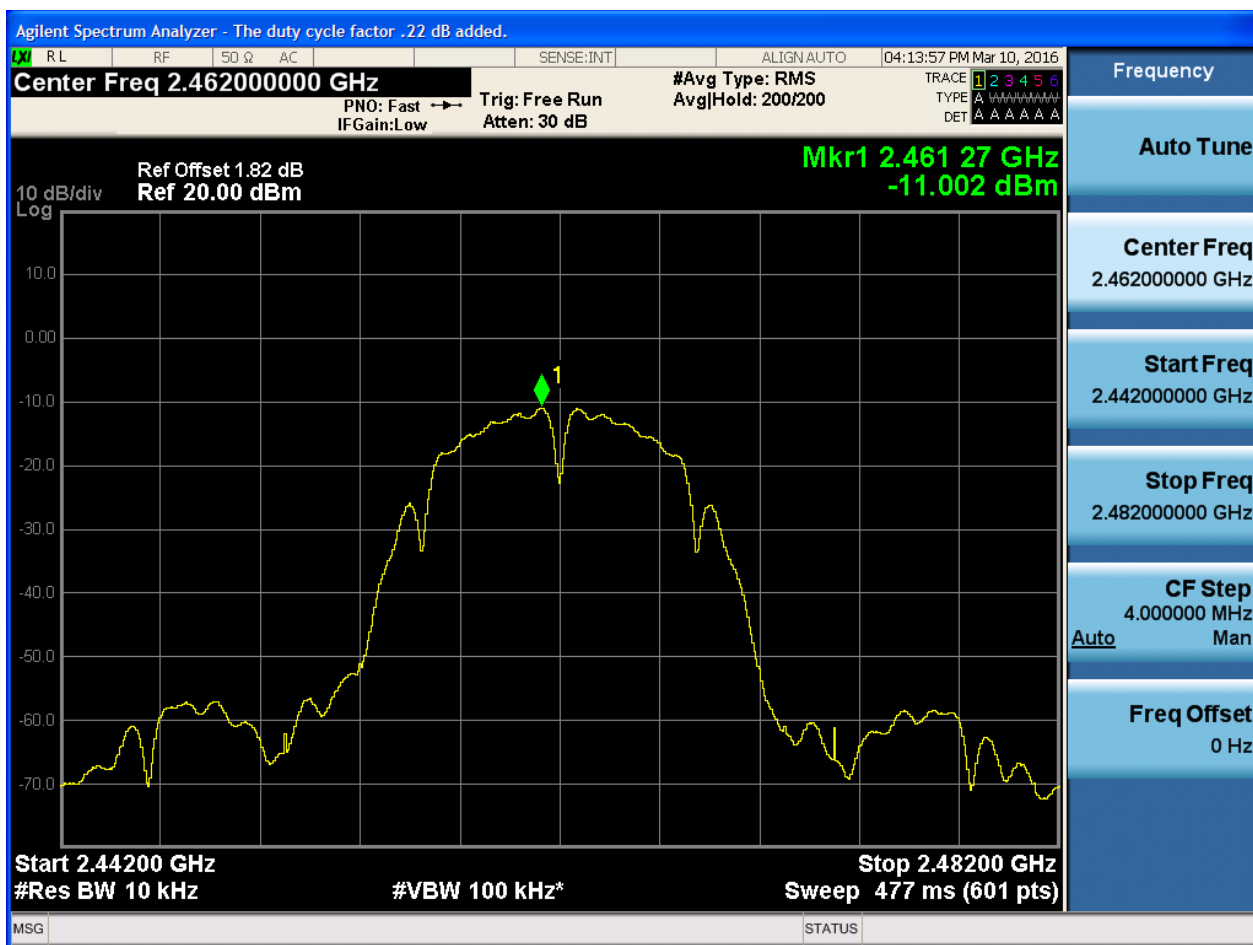


2.5 11B_H@Ant 1





2.6 11B_H@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .22 dB added.

Center Freq 2.41200000 GHz

Ref Offset 1.82 dB
Ref 20.00 dBm

Mkr1 2.413 87 GHz
-14.178 dBm

Start 2.39200 GHz
#Res BW 10 kHz

Stop 2.43200 GHz
Sweep 477 ms (601 pts)

#VBW 100 kHz*

10 dB/div
Log

1

Frequency

Auto Tune

Center Freq
2.41200000 GHz

Start Freq
2.392000000 GHz

Stop Freq
2.432000000 GHz

CF Step
4.000000 MHz
Man

Auto

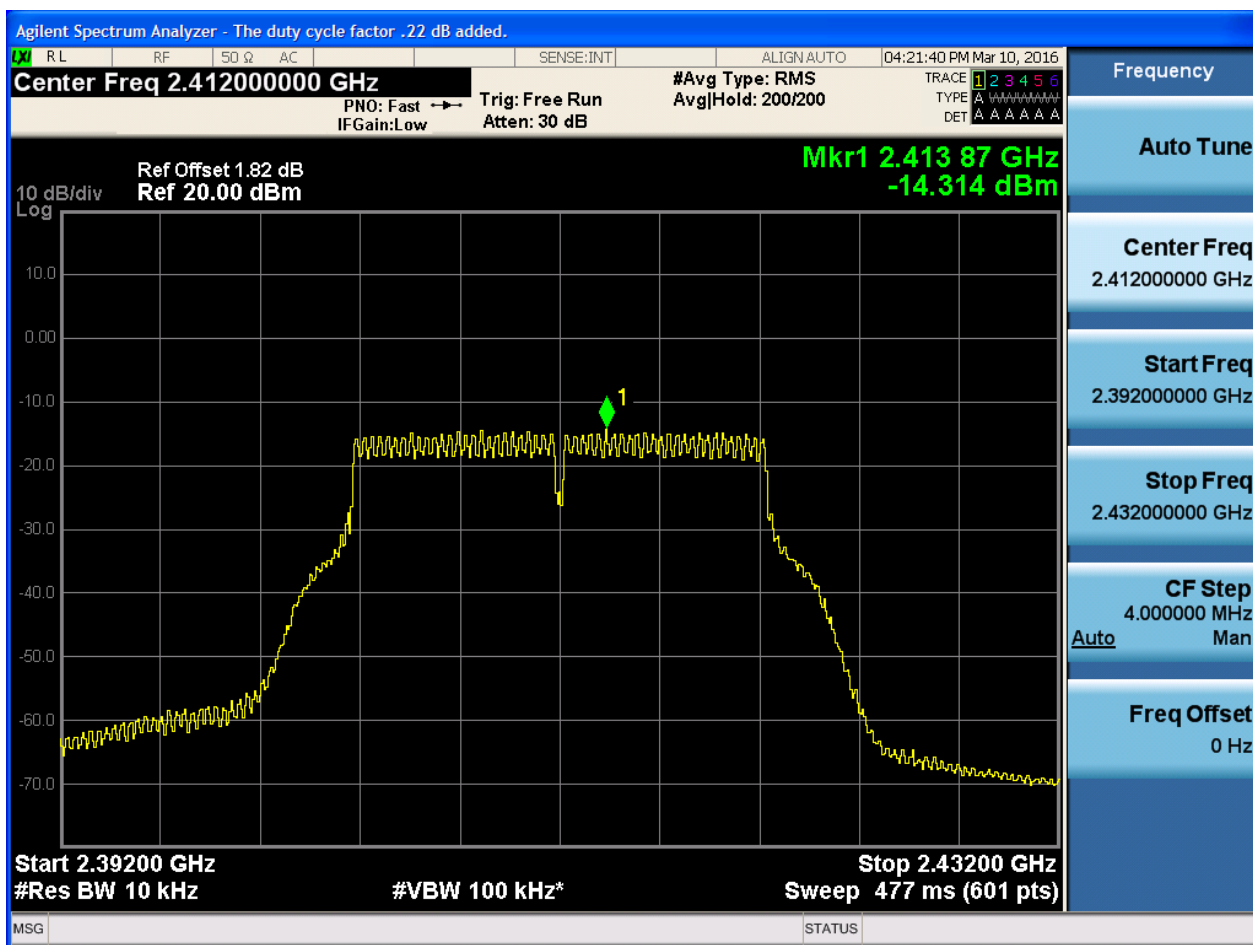
Freq Offset
0 Hz

MSG

STATUS

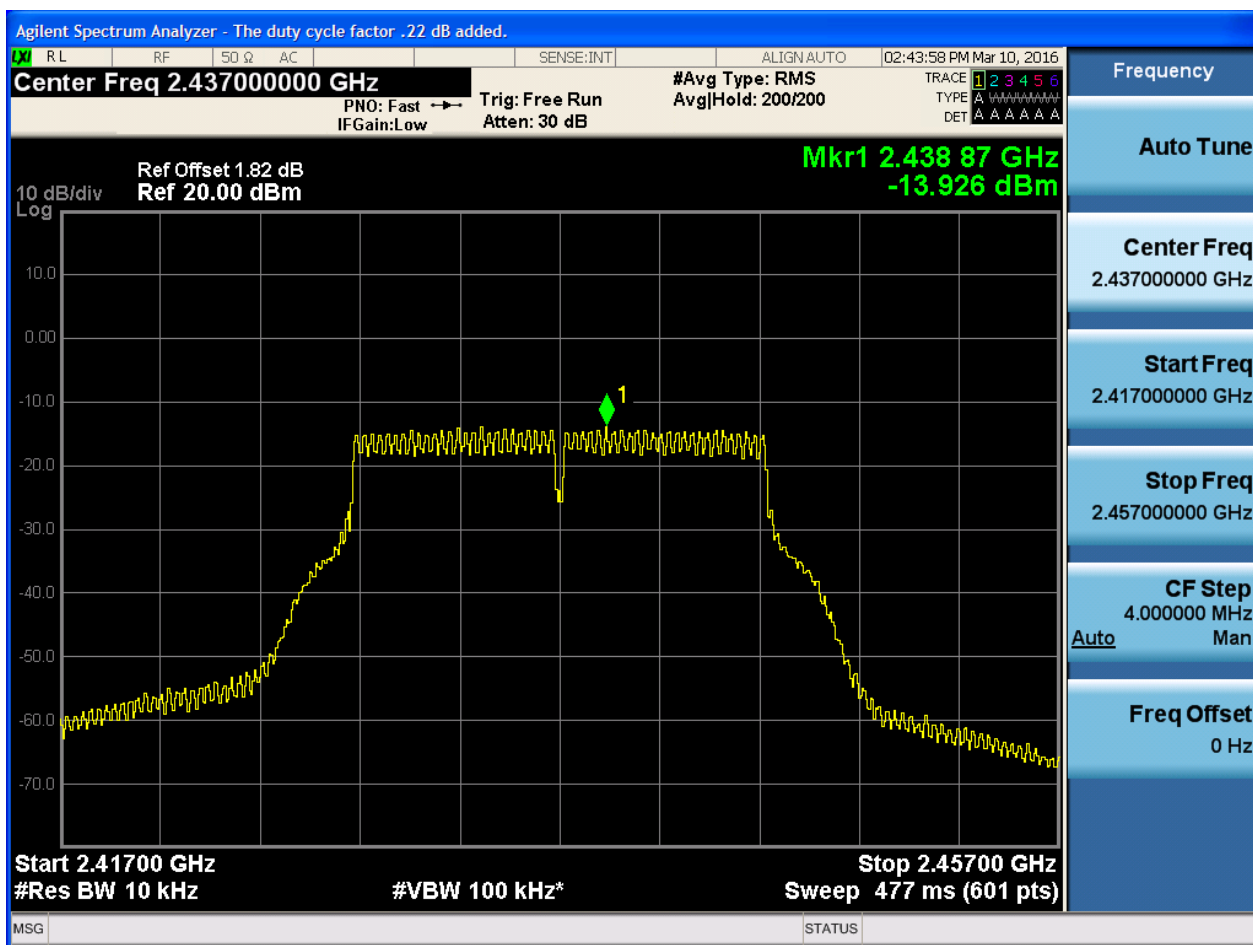


2.8 11G_L@Ant 2



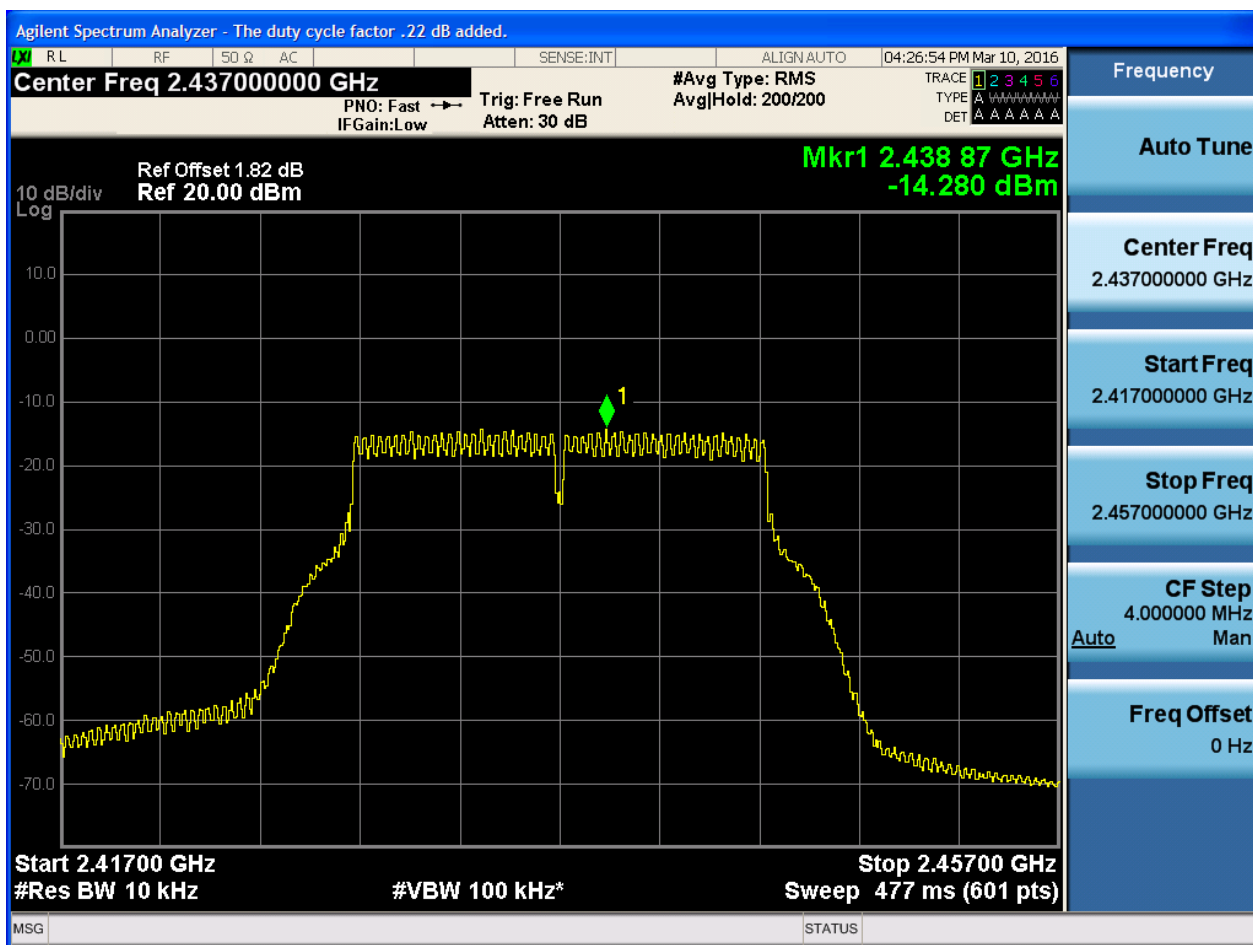


2.9 11G_M@Ant 1



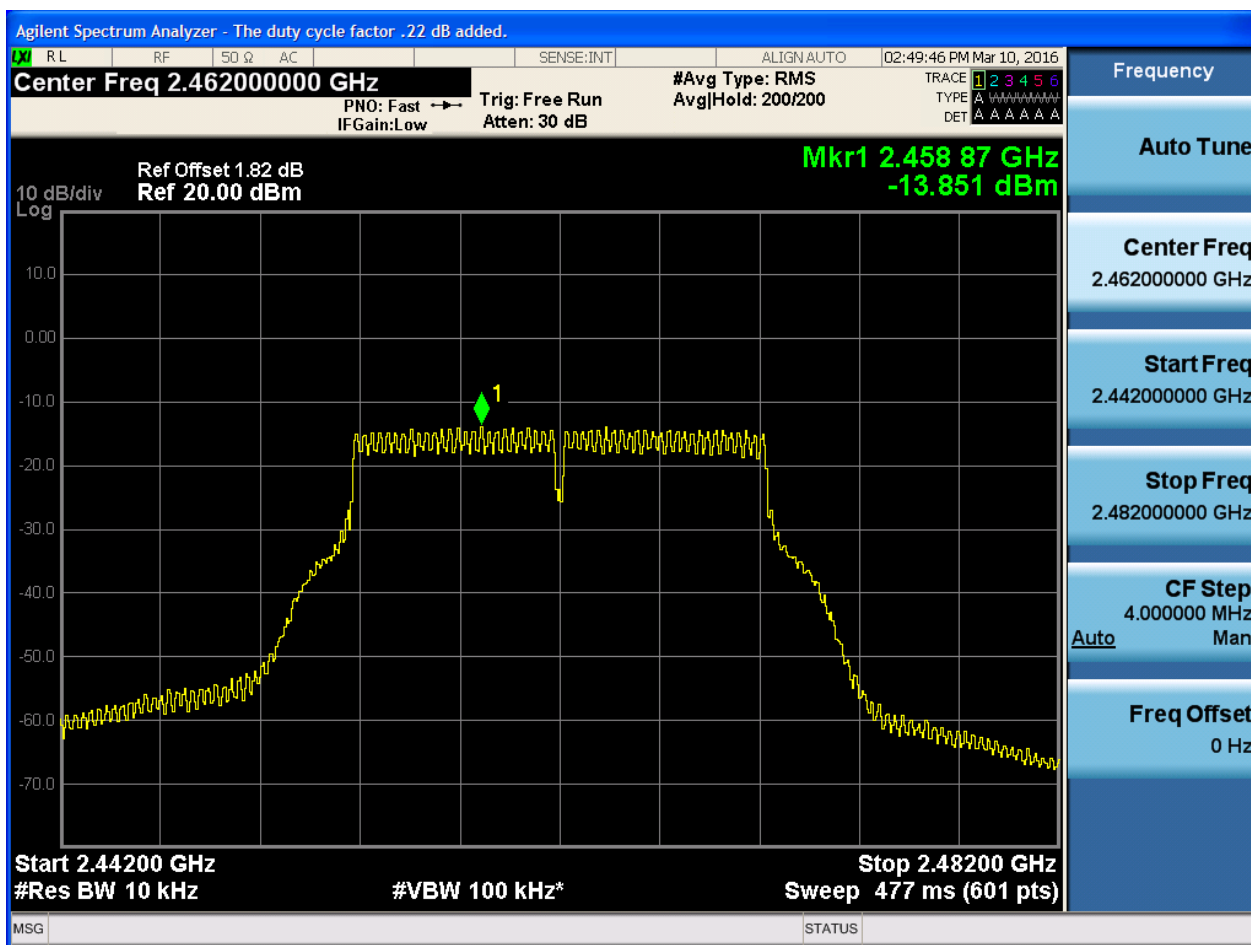


2.10 11G_M@Ant 2



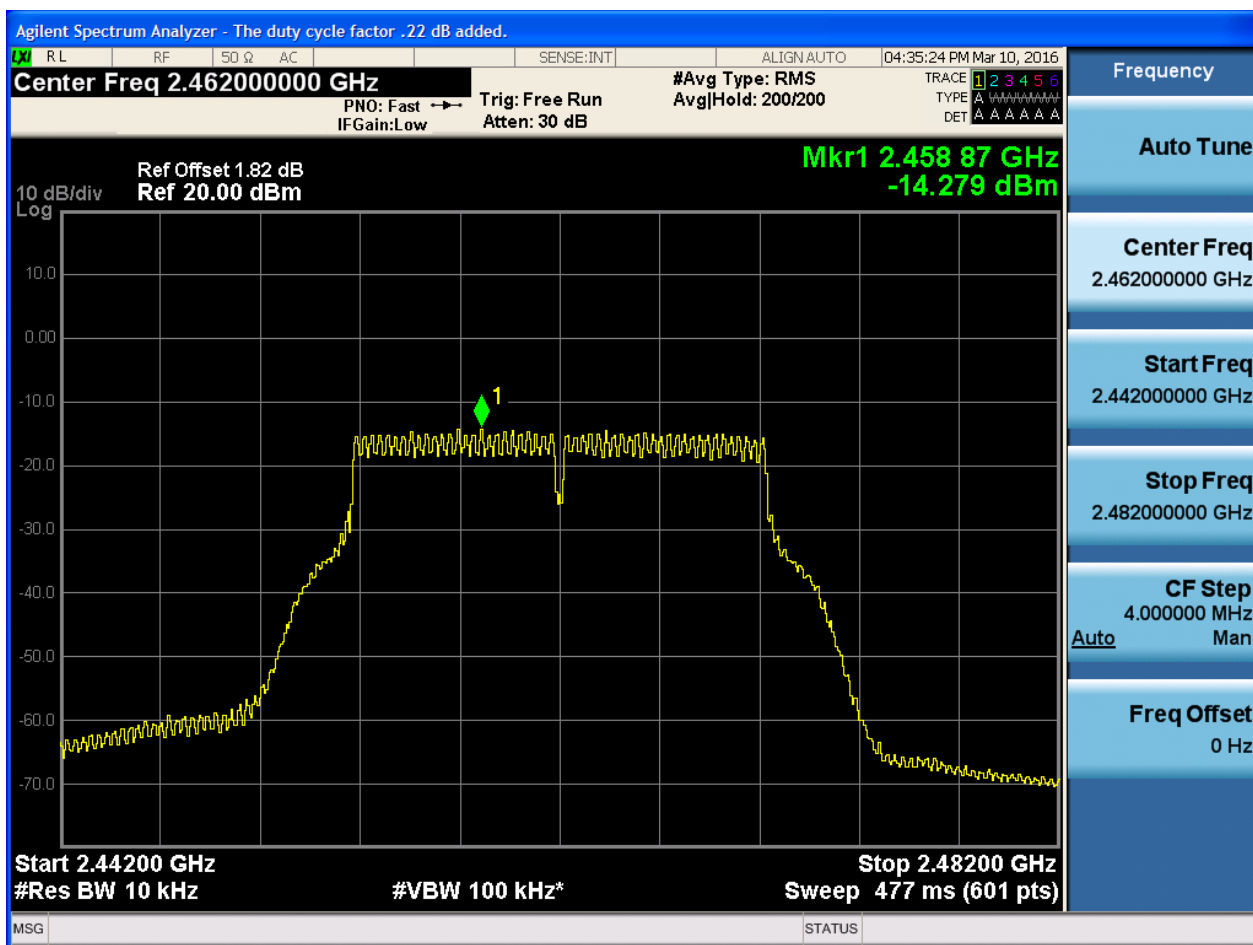


2.11 11G_H@Ant 1



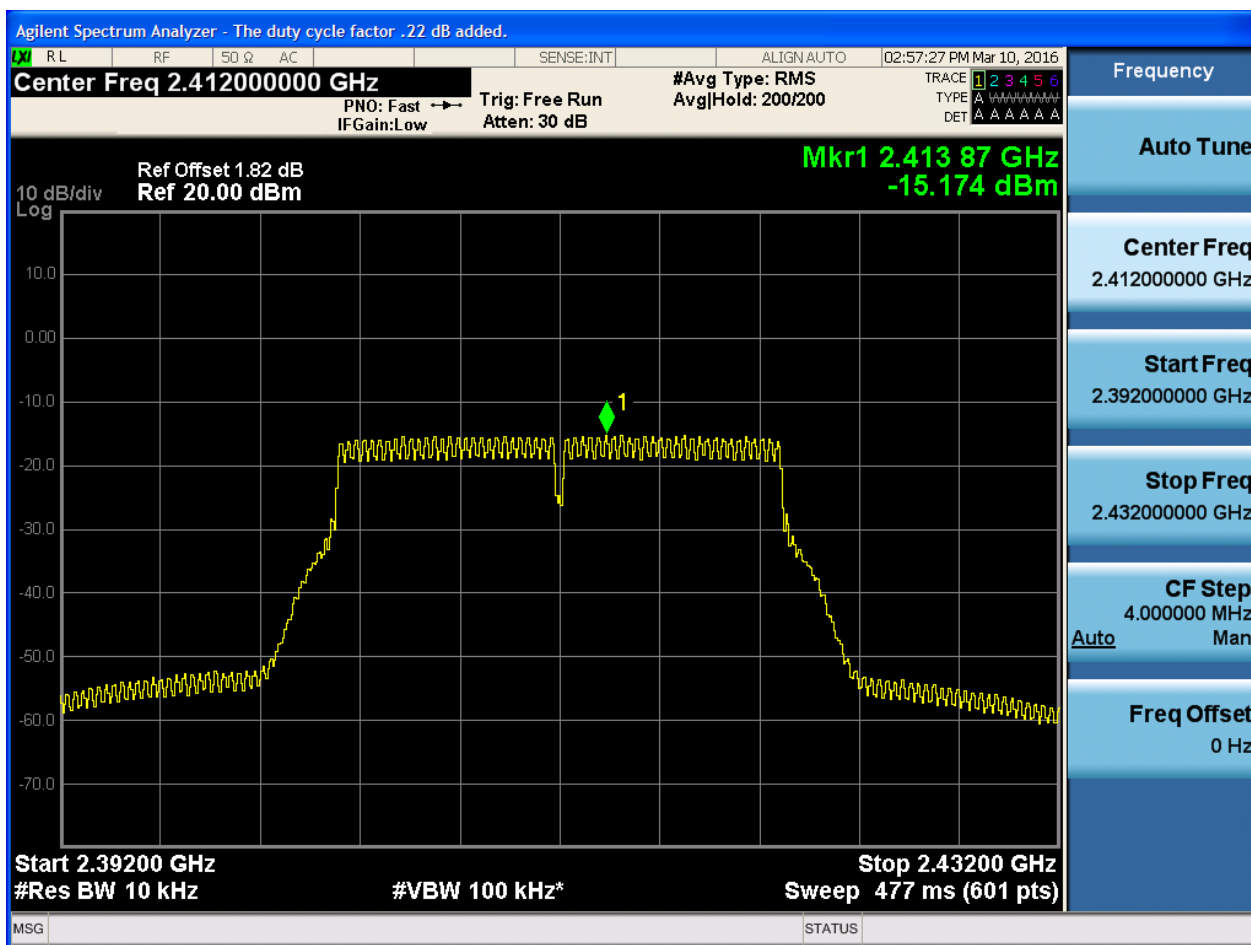


2.12 11G_H@Ant 2



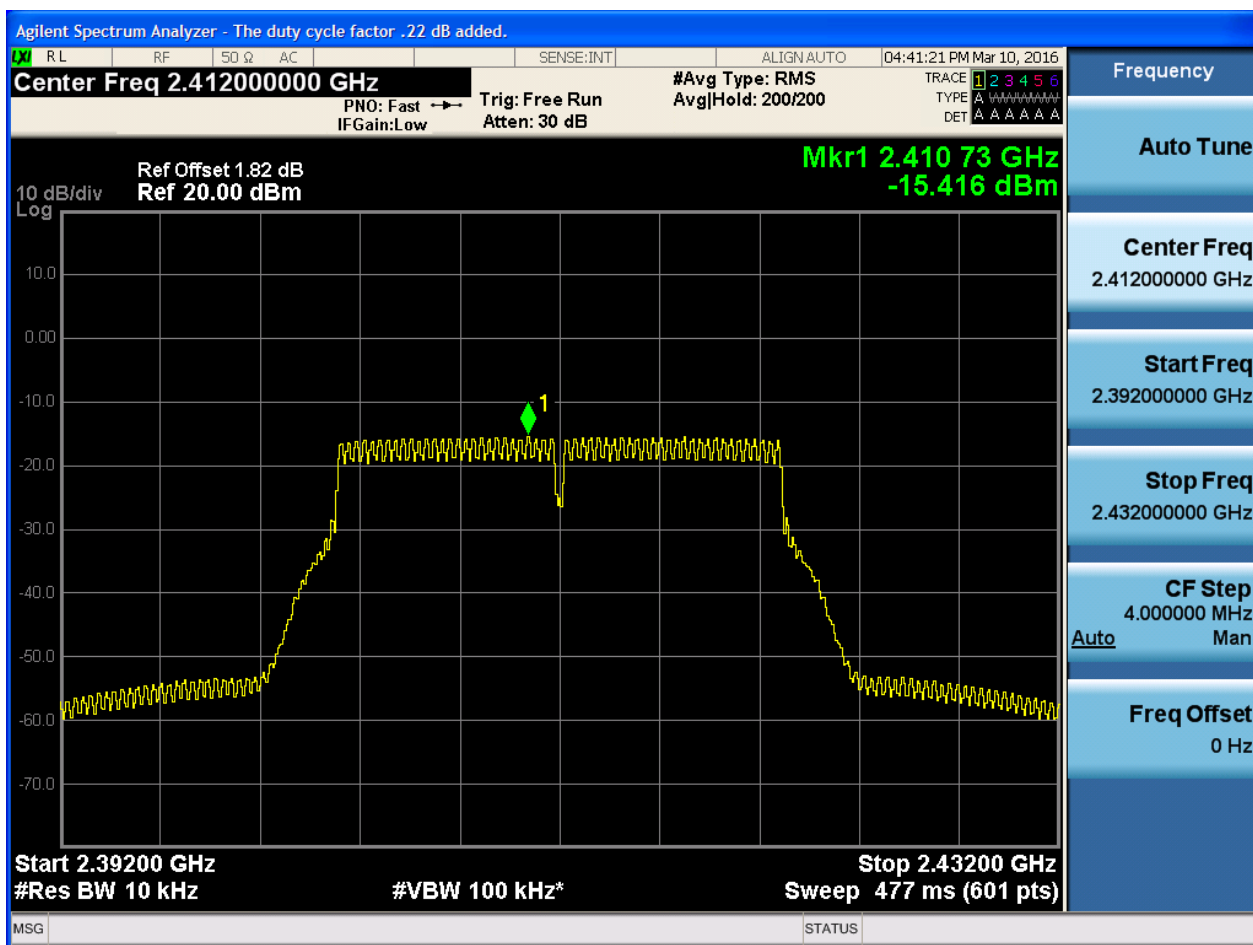


2.13 11N20_L@Ant 1



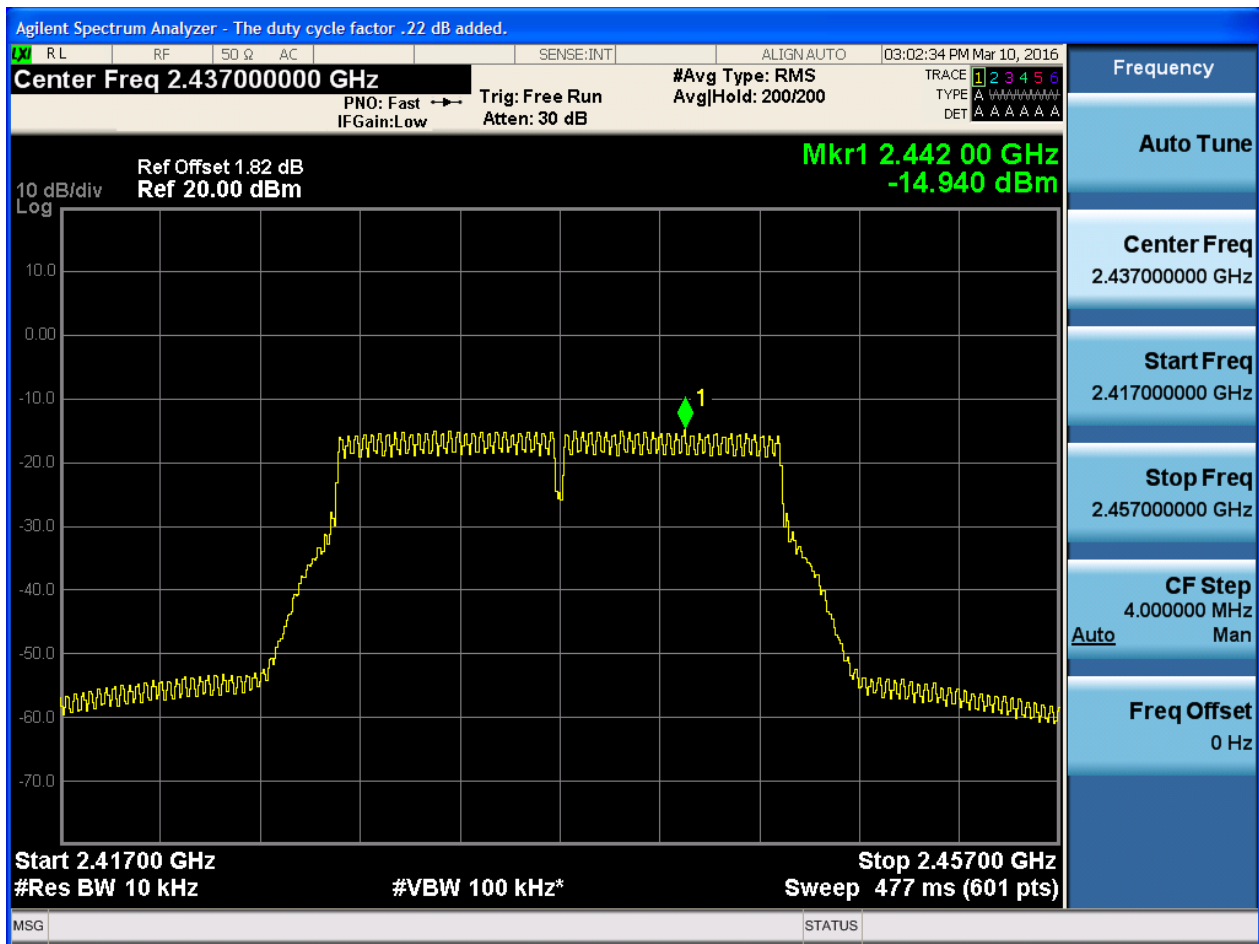


2.14 11N20_L@Ant 2



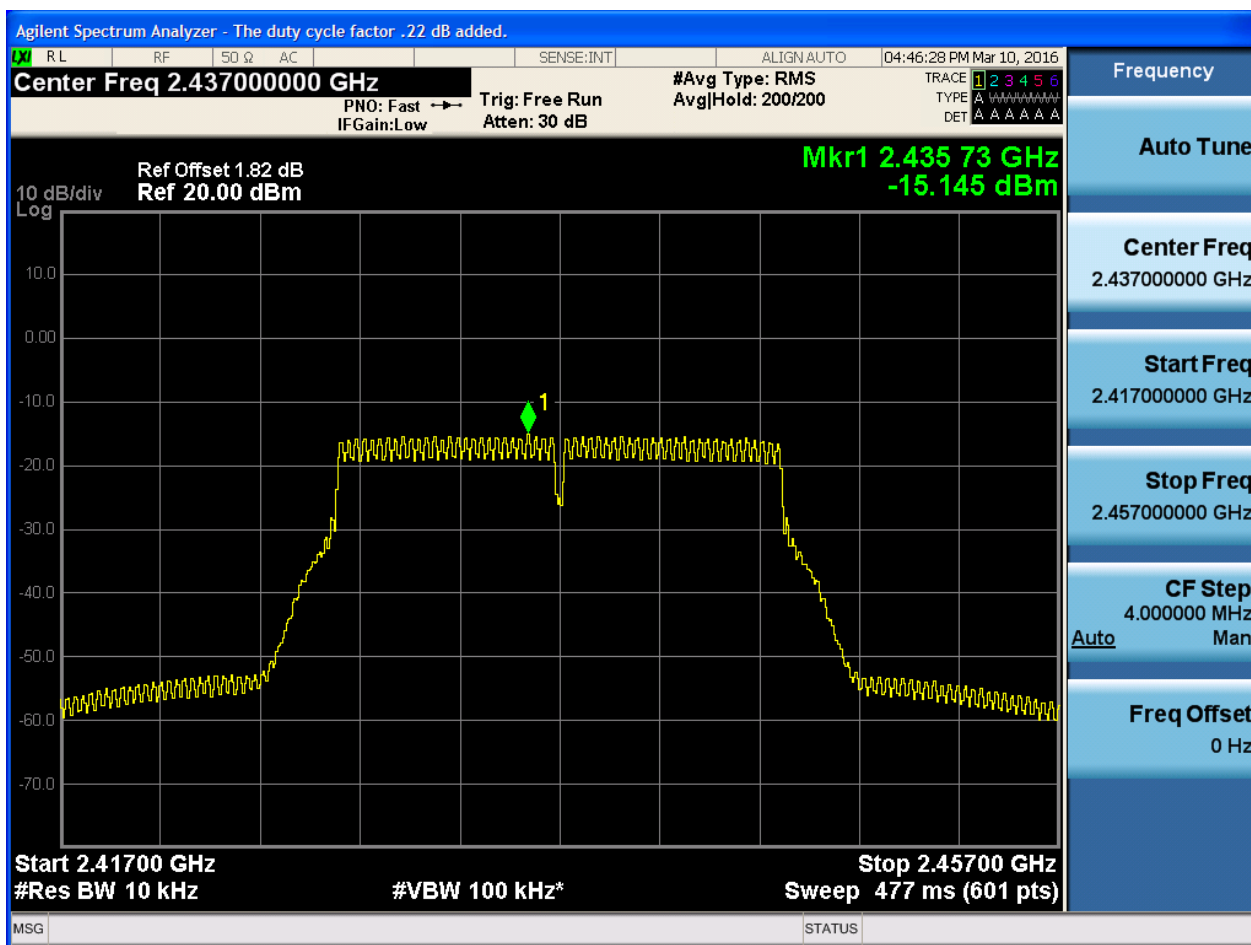


2.15 11N20_M@Ant 1



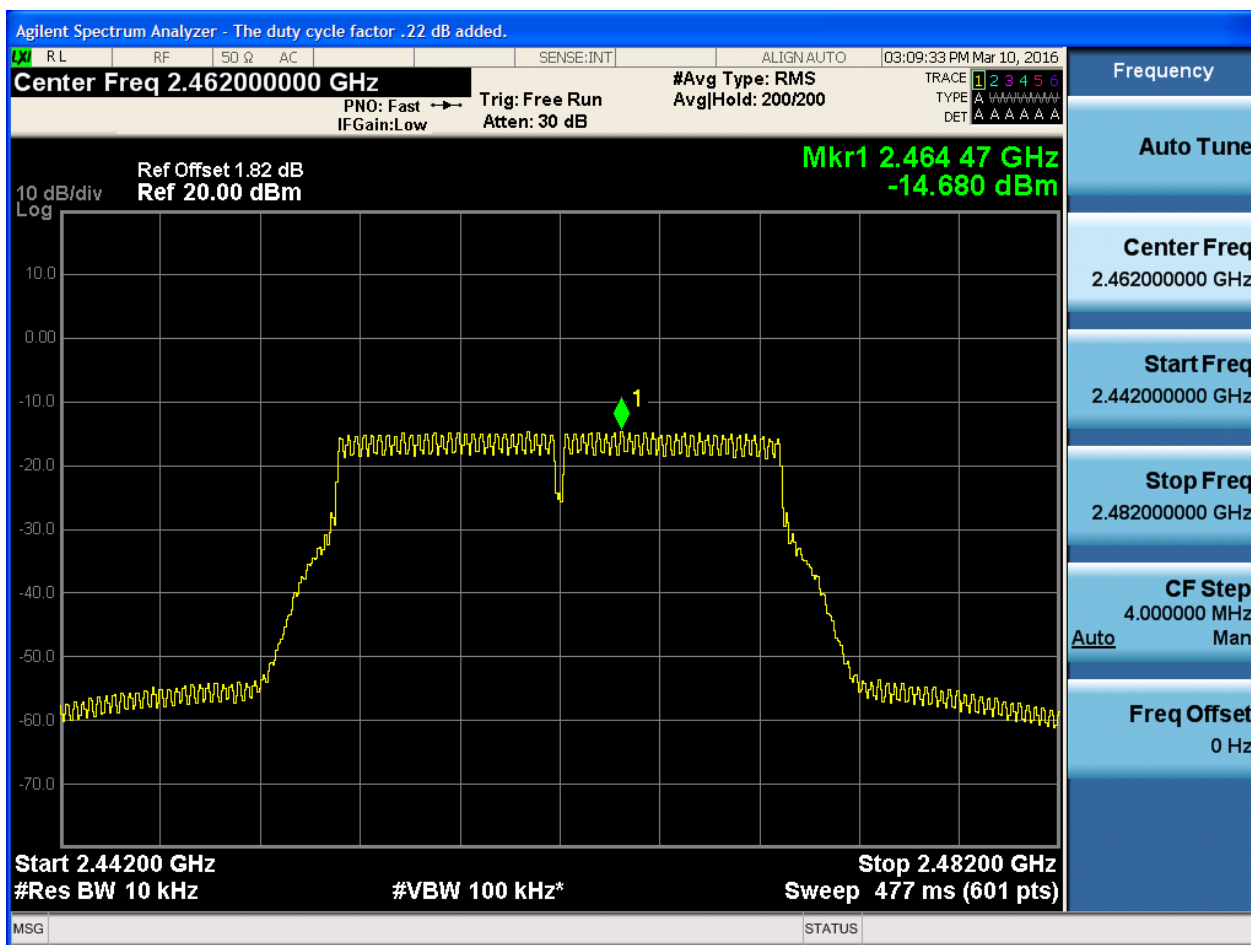


2.16 11N20_M@Ant 2



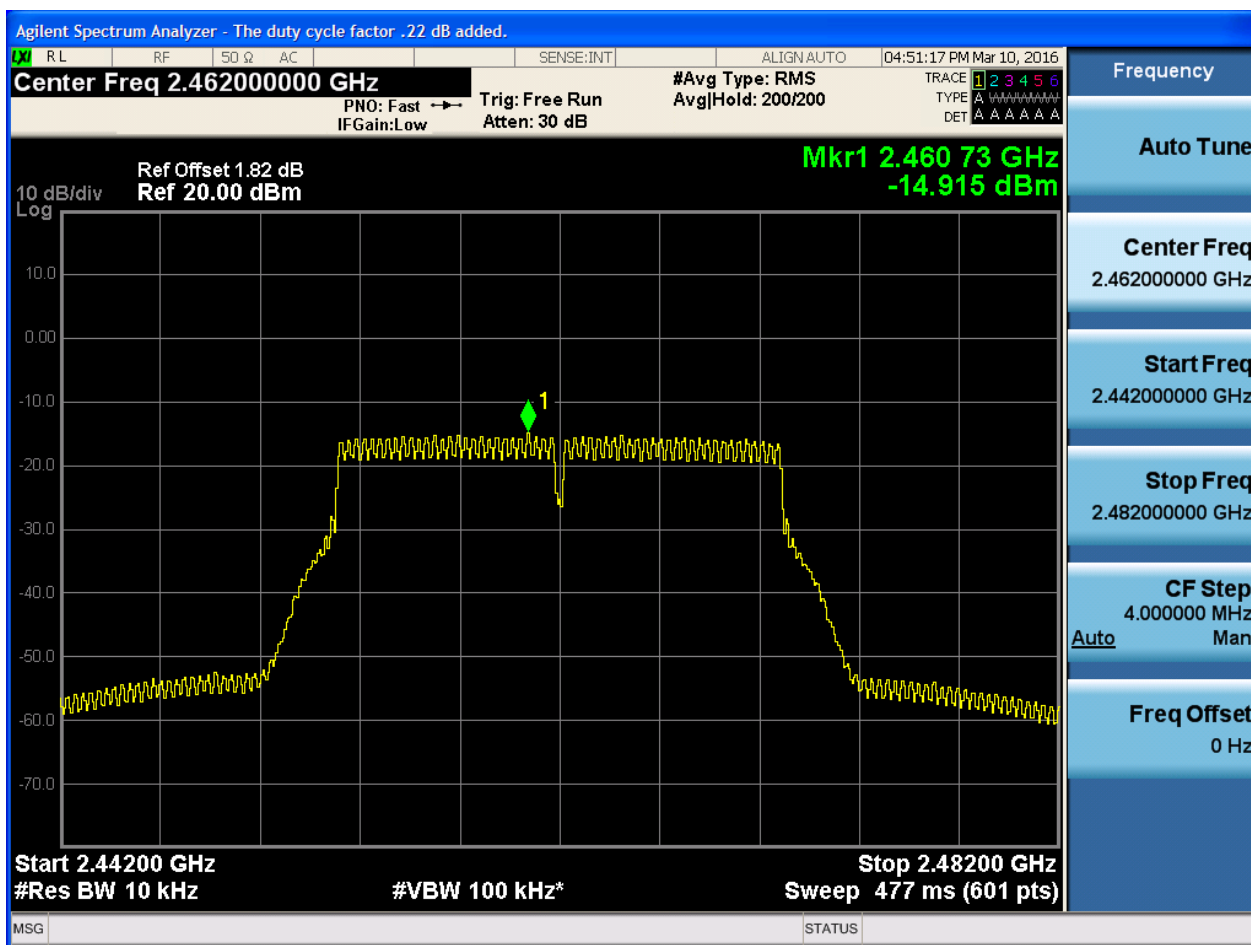


2.17 11N20_H@Ant 1



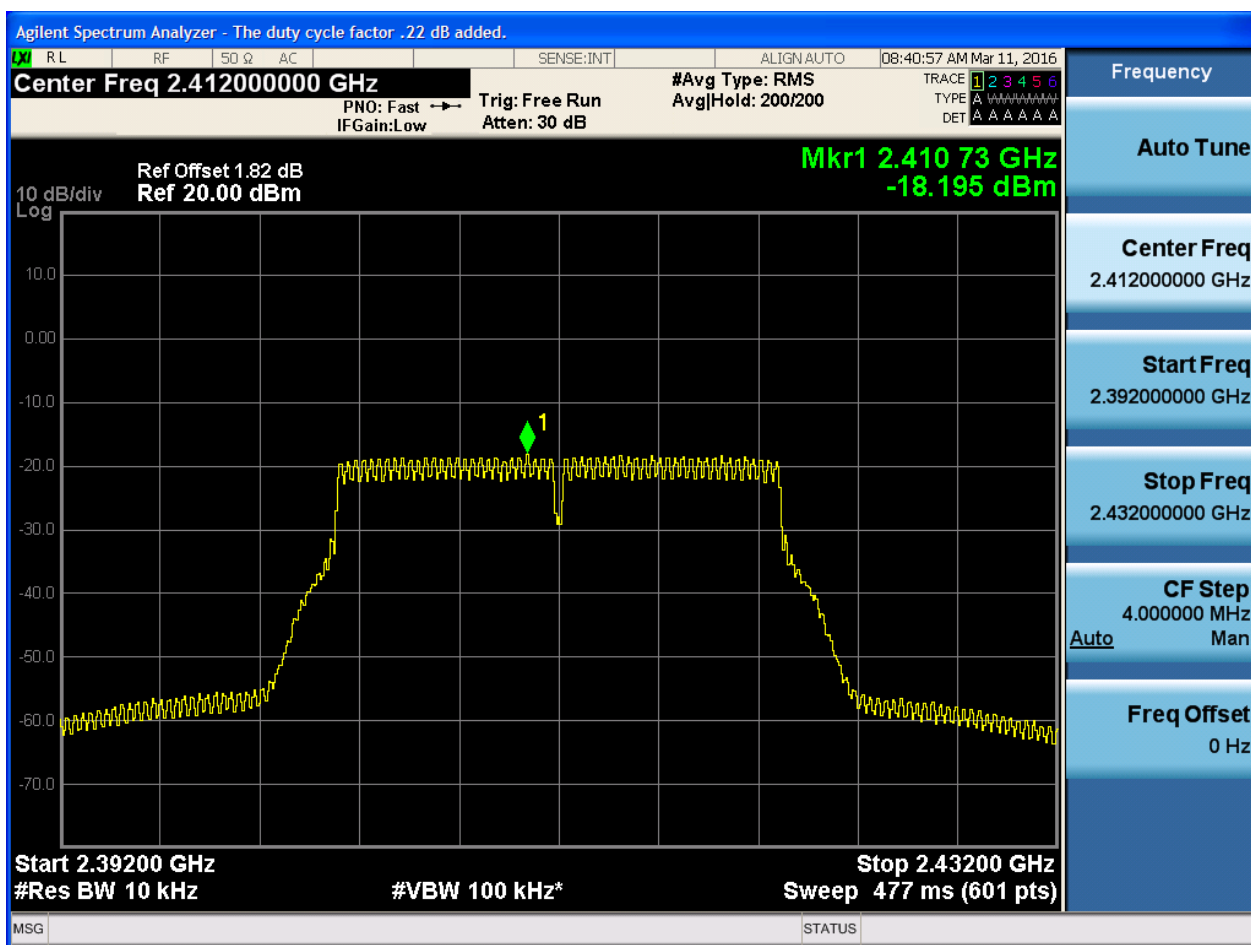


2.18 11N20_H@Ant 2



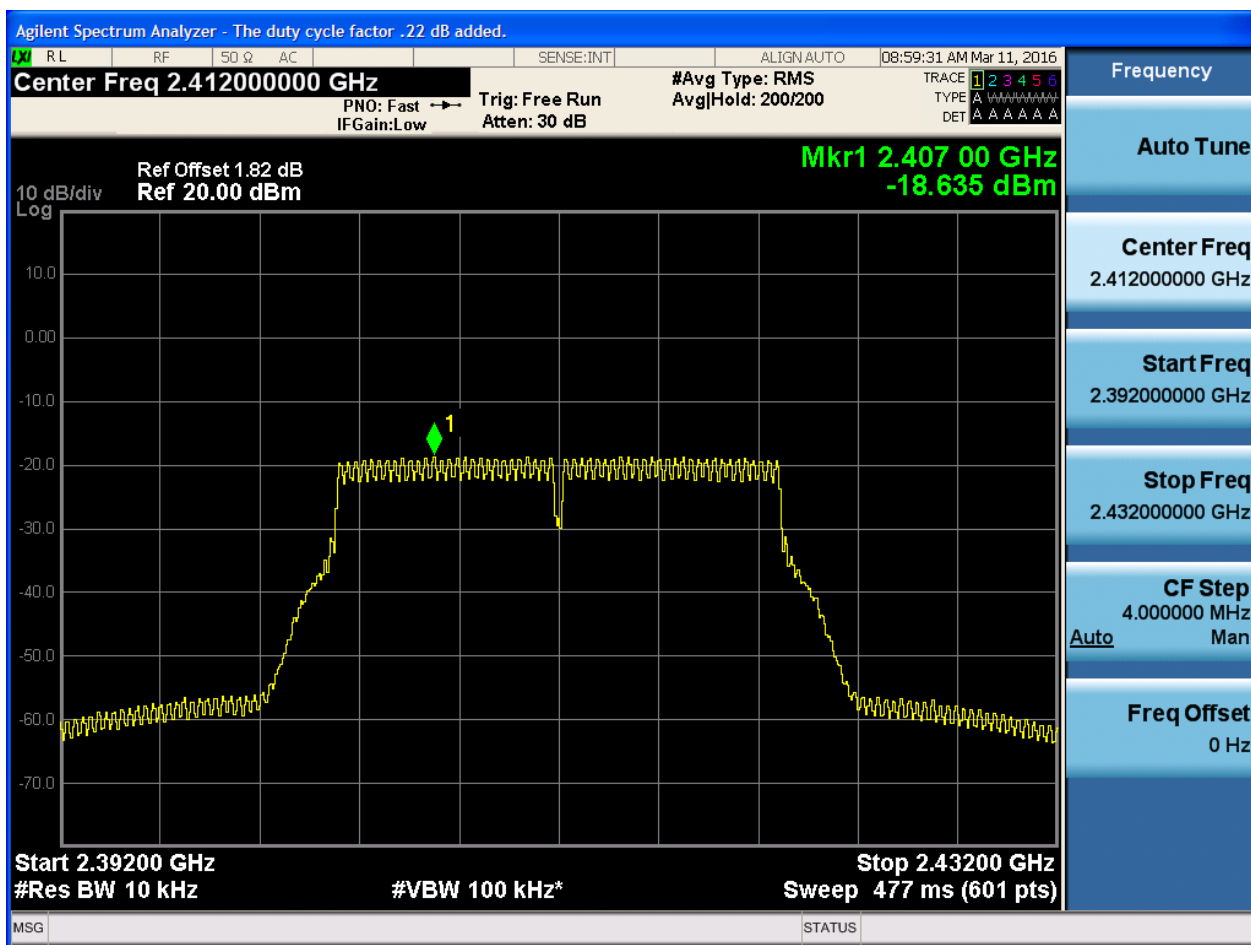


2.19 11N20m_L@Ant 1



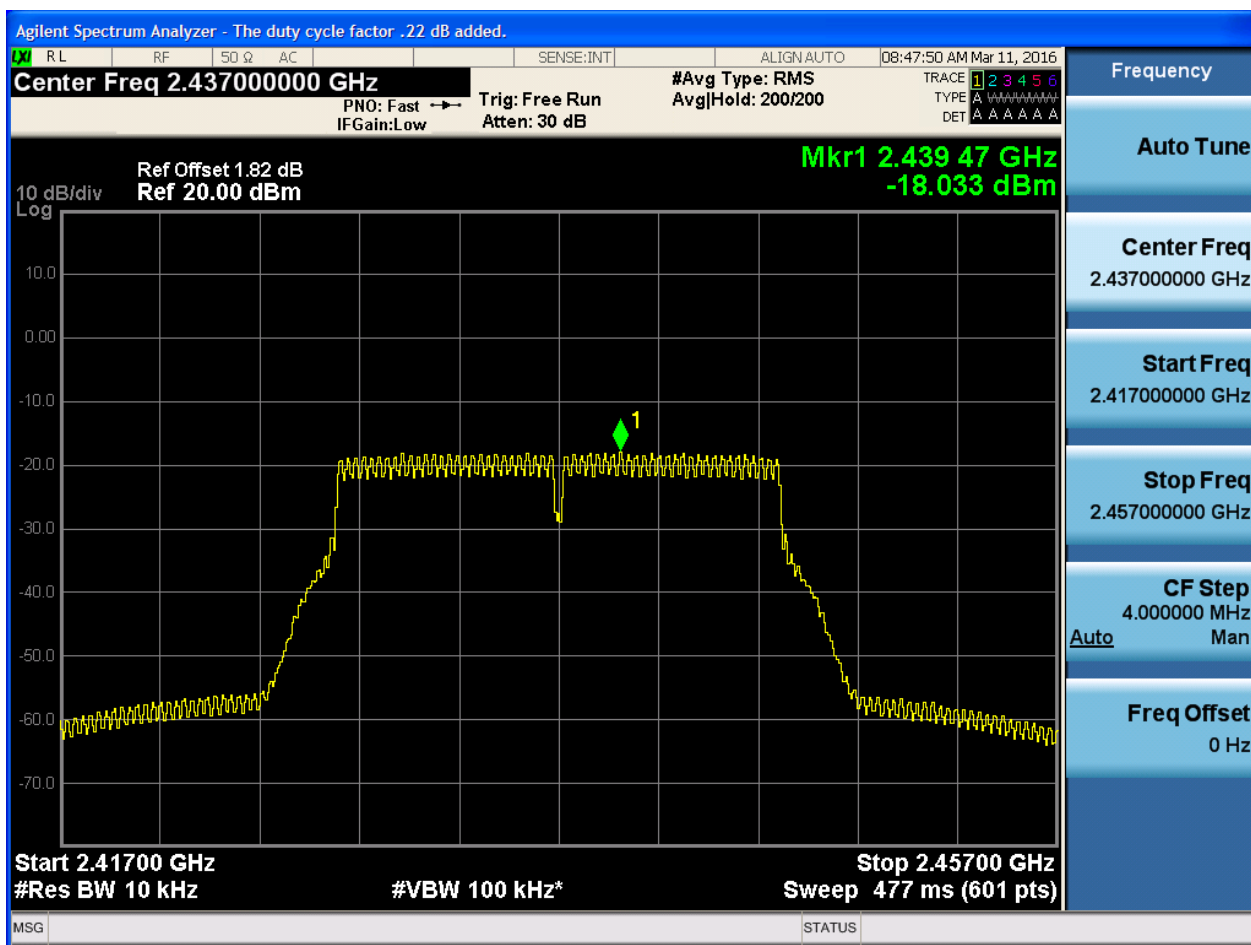


2.20 11N20m_L@Ant 2



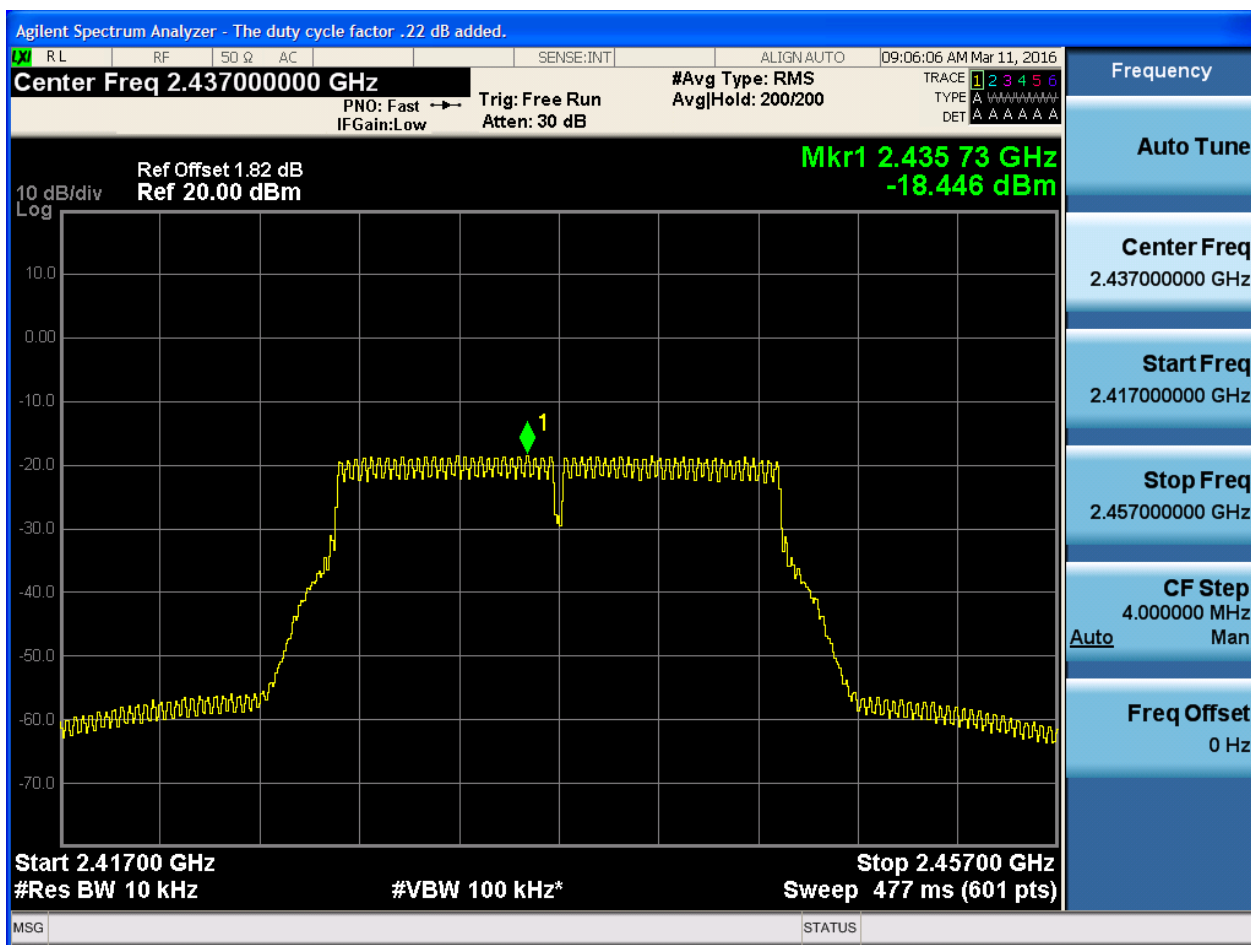


2.21 11N20m_M@Ant 1





2.22 11N20m_M@Ant 2





2.23 11N20m_H@Ant 1

