



# Appendix for Test Report



## 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	7.12	pass
11B	L	2417	Ant 1	7.01	pass
11B	L	2412	Ant 2	7.11	pass
11B	L	2417	Ant 2	7.01	pass
11B	M	2437	Ant 1	7.13	pass
11B	M	2437	Ant 2	7.11	pass
11B	H	2457	Ant 1	6.63	pass
11B	H	2462	Ant 1	7.11	pass
11B	H	2457	Ant 2	6.65	pass
11B	H	2462	Ant 2	7.11	pass
11G	L	2412	Ant 1	16.37	pass
11G	L	2417	Ant 1	16.36	pass
11G	L	2412	Ant 2	16.39	pass
11G	L	2417	Ant 2	16.41	pass
11G	M	2437	Ant 1	16.42	pass
11G	M	2437	Ant 2	16.38	pass
11G	H	2457	Ant 1	16.13	pass
11G	H	2462	Ant 1	16.13	pass
11G	H	2457	Ant 2	16.42	pass
11G	H	2462	Ant 2	16.38	pass
11N20	L	2412	Ant 1	17.59	pass
11N20	L	2417	Ant 1	17.60	pass
11N20	L	2412	Ant 2	17.65	pass
11N20	L	2417	Ant 2	17.62	pass
11N20	M	2437	Ant 1	17.65	pass
11N20	M	2437	Ant 2	17.60	pass
11N20	H	2457	Ant 1	17.35	pass
11N20	H	2462	Ant 1	16.39	pass

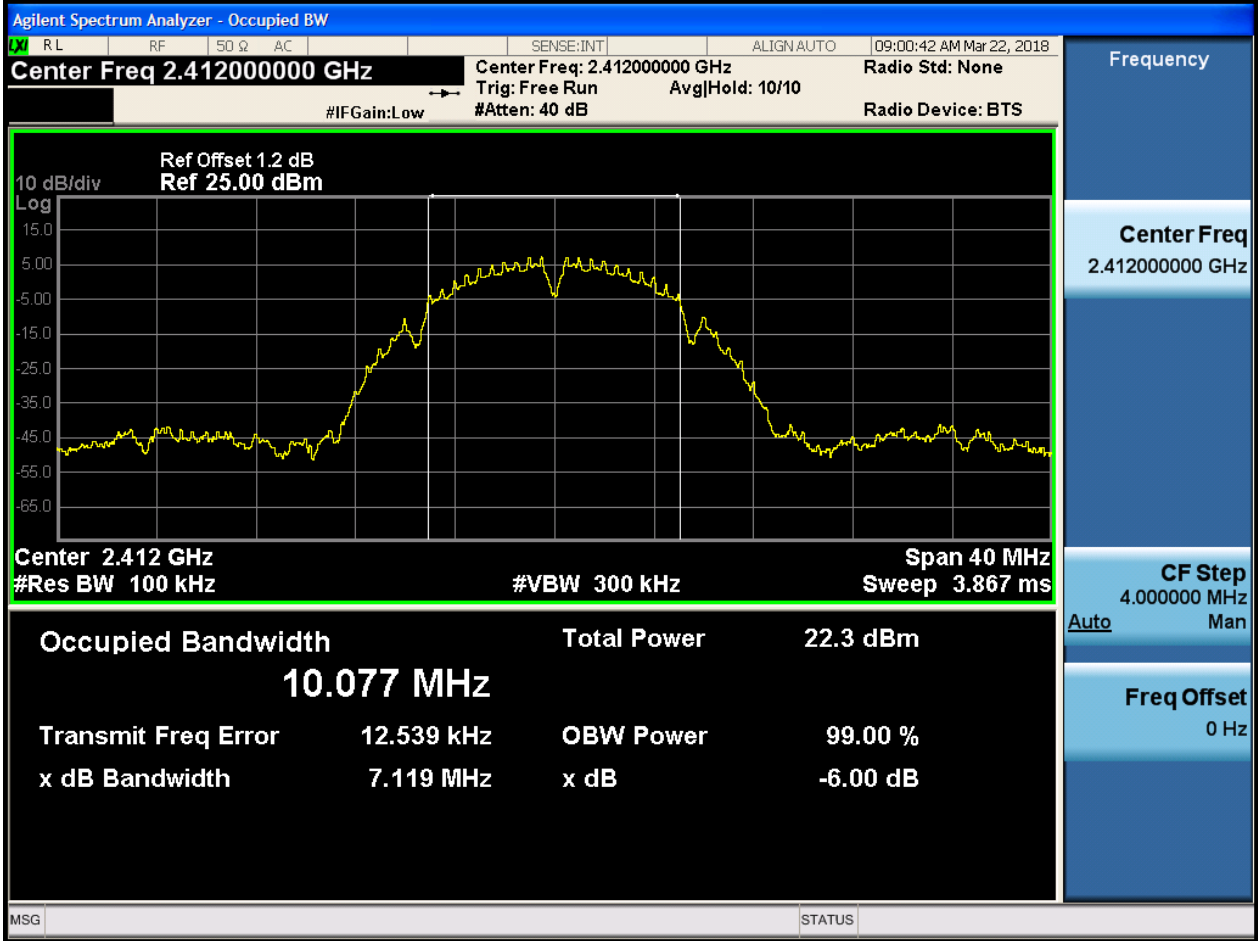


Test Mode	Test Channel	Frequency[MHz]	Ant	DTS6dBBW[MHz]	Verdict
11N20	H	2457	Ant 2	17.63	pass
11N20	H	2462	Ant 2	17.65	pass
11N20m	L	2412	Ant 1	17.34	pass
11N20m	L	2417	Ant 1	17.61	pass
11N20m	L	2412	Ant 2	17.65	pass
11N20m	L	2417	Ant 2	17.66	pass
11N20m	M	2437	Ant 1	17.66	pass
11N20m	M	2437	Ant 2	17.64	pass
11N20m	H	2457	Ant 1	17.35	pass
11N20m	H	2462	Ant 1	16.70	pass
11N20m	H	2457	Ant 2	17.66	pass
11N20m	H	2462	Ant 2	17.65	pass
11G CDD	L	2412	Ant 1	16.37	pass
11G CDD	L	2417	Ant 1	16.39	pass
11G CDD	L	2412	Ant 2	16.40	pass
11G CDD	L	2417	Ant 2	16.43	pass
11G CDD	M	2437	Ant 1	16.40	pass
11G CDD	M	2437	Ant 2	16.40	pass
11G CDD	H	2457	Ant 1	16.34	pass
11G CDD	H	2462	Ant 1	16.10	pass
11G CDD	H	2457	Ant 2	16.41	pass
11G CDD	H	2462	Ant 2	16.39	pass



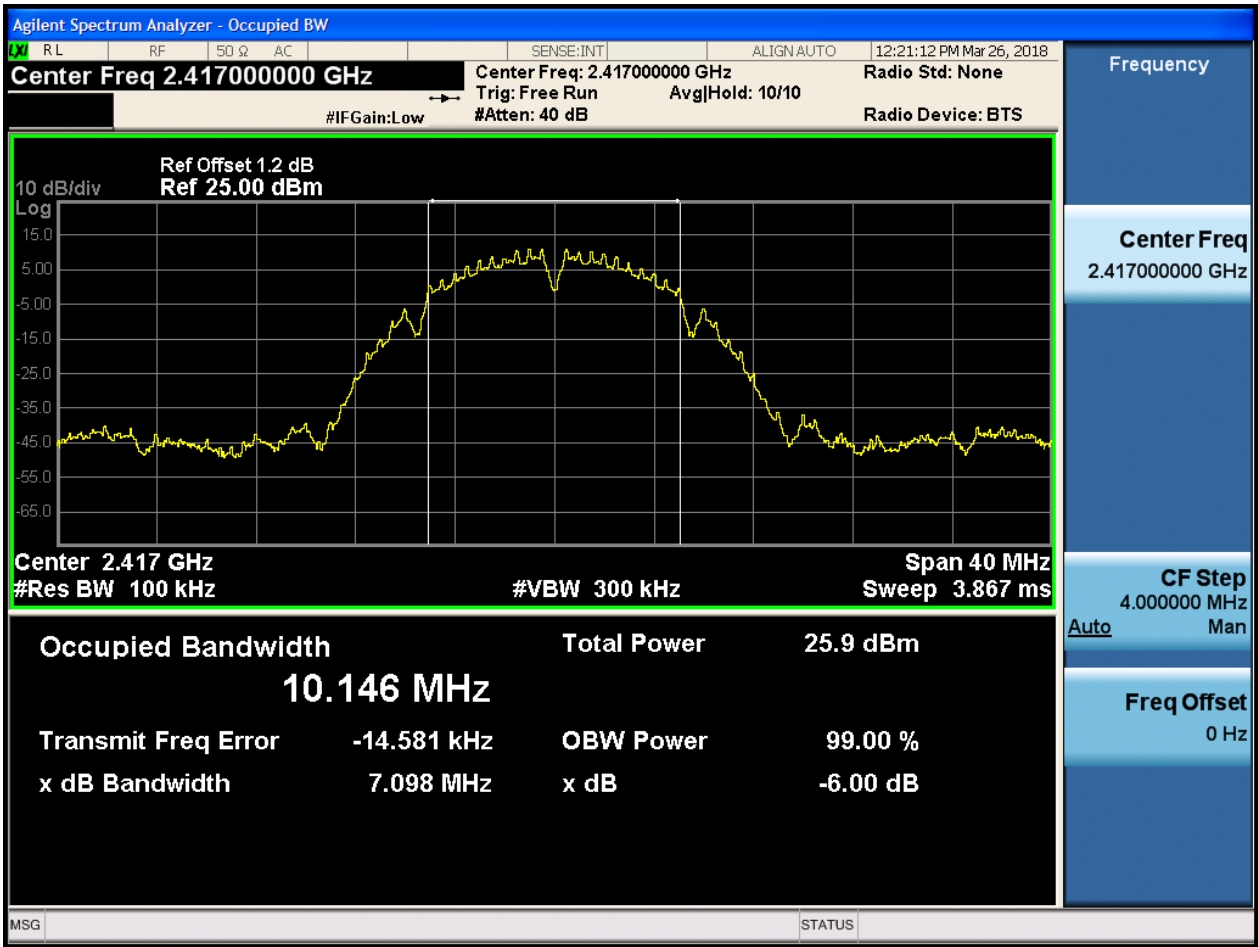
Part II - Test Plots

2.1 11B\_L\_2412@Ant 1



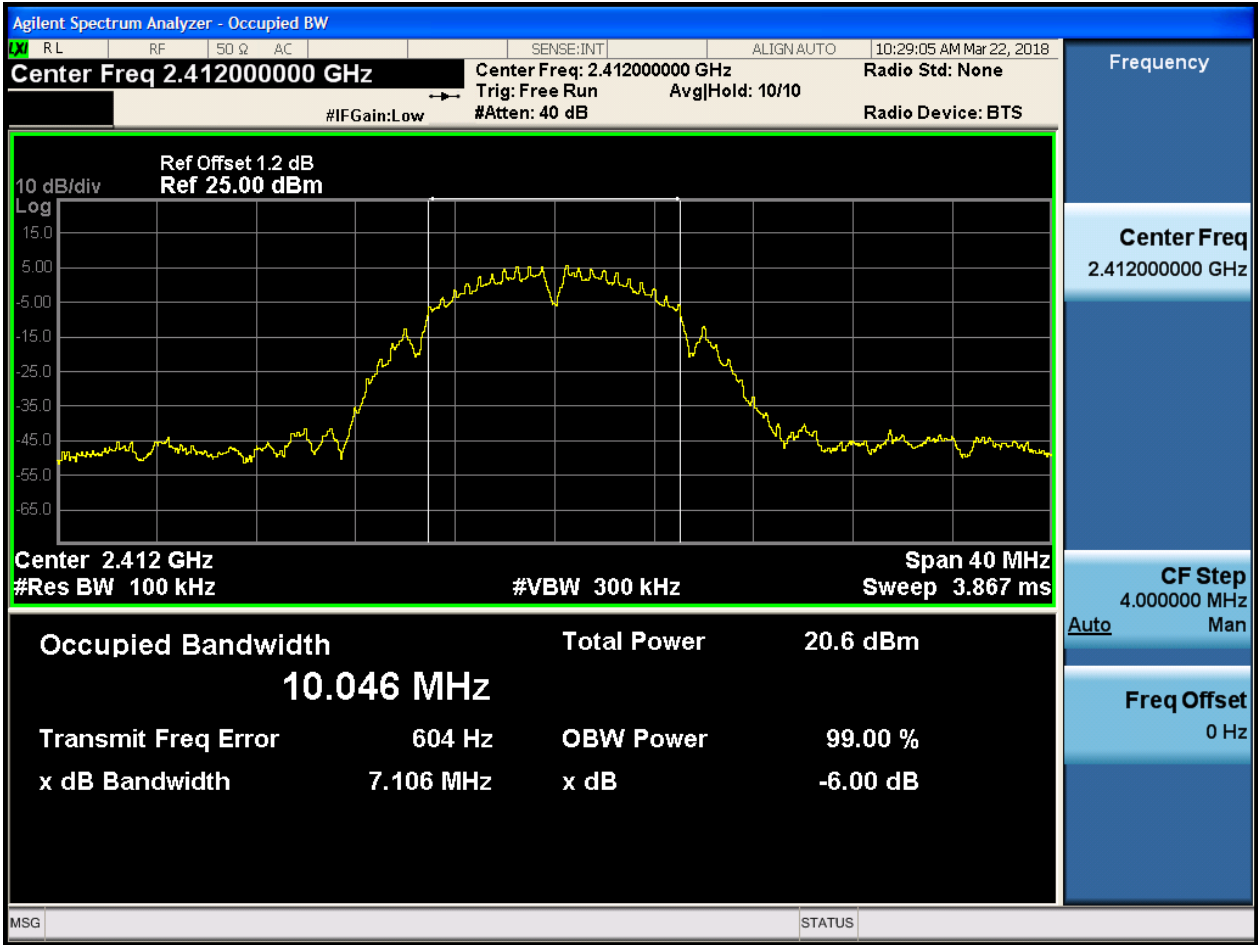


2.2 11B\_L\_2417@Ant 1



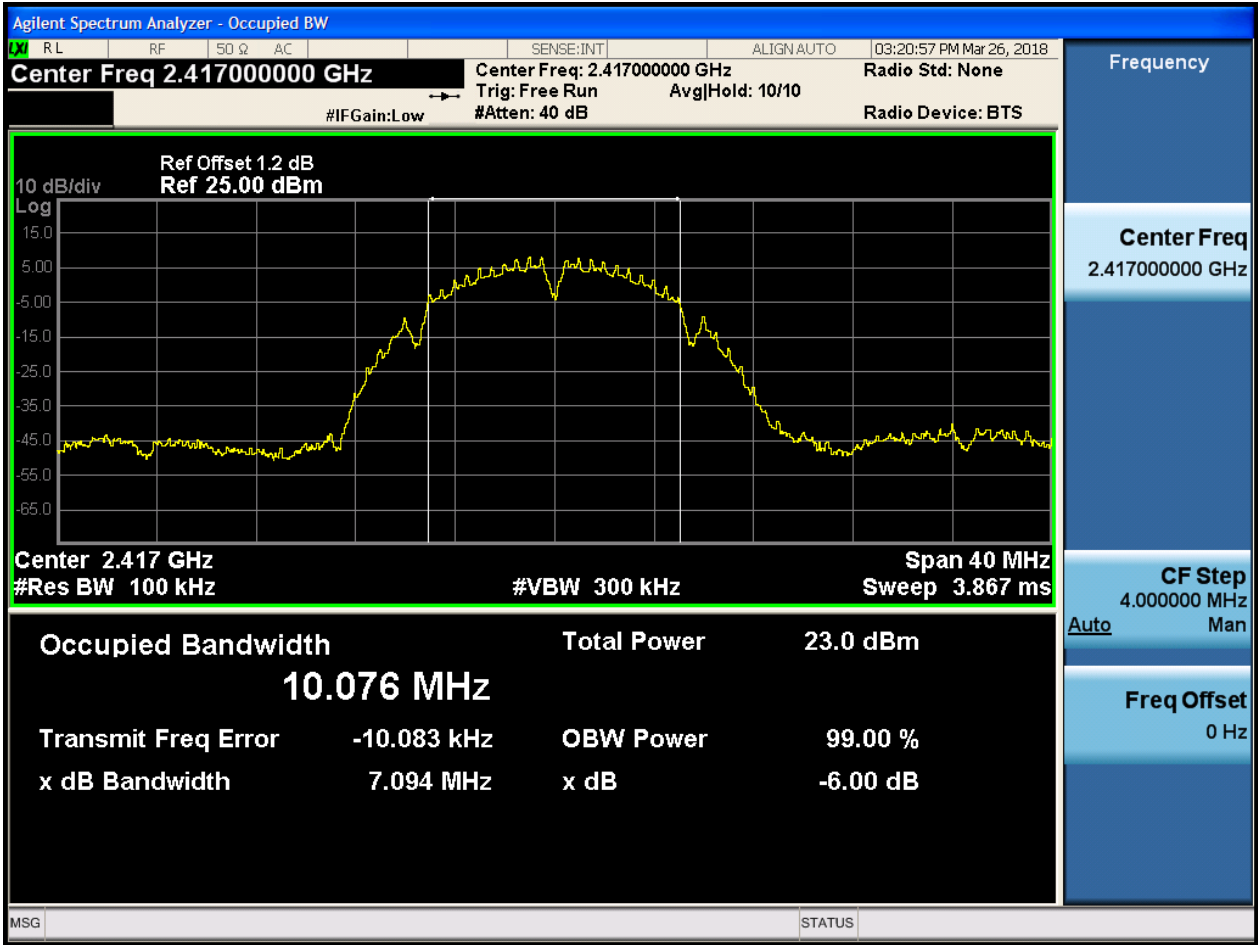


2.3 11B\_L\_2412@Ant 2



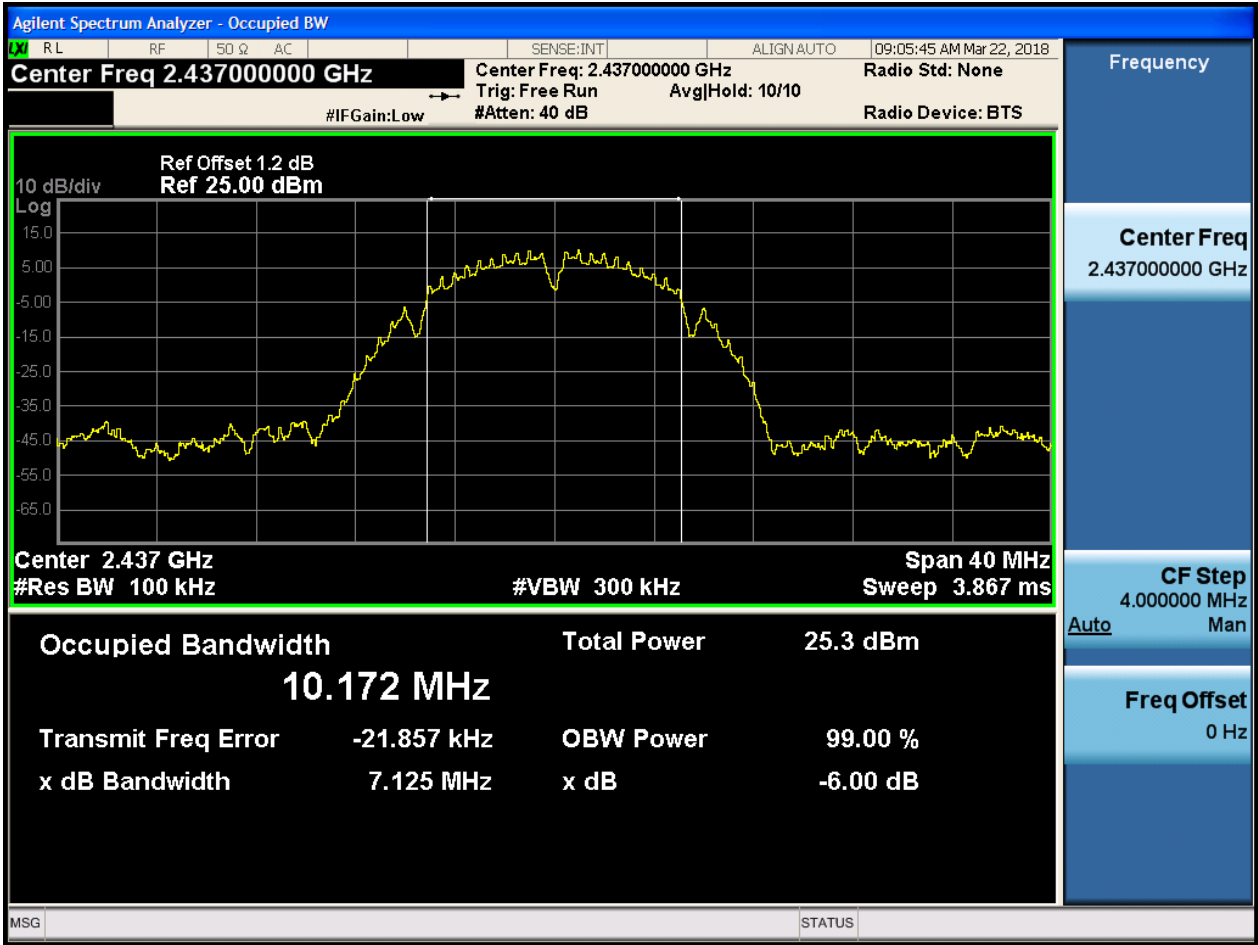


2.4 11B\_L\_2417@Ant 2





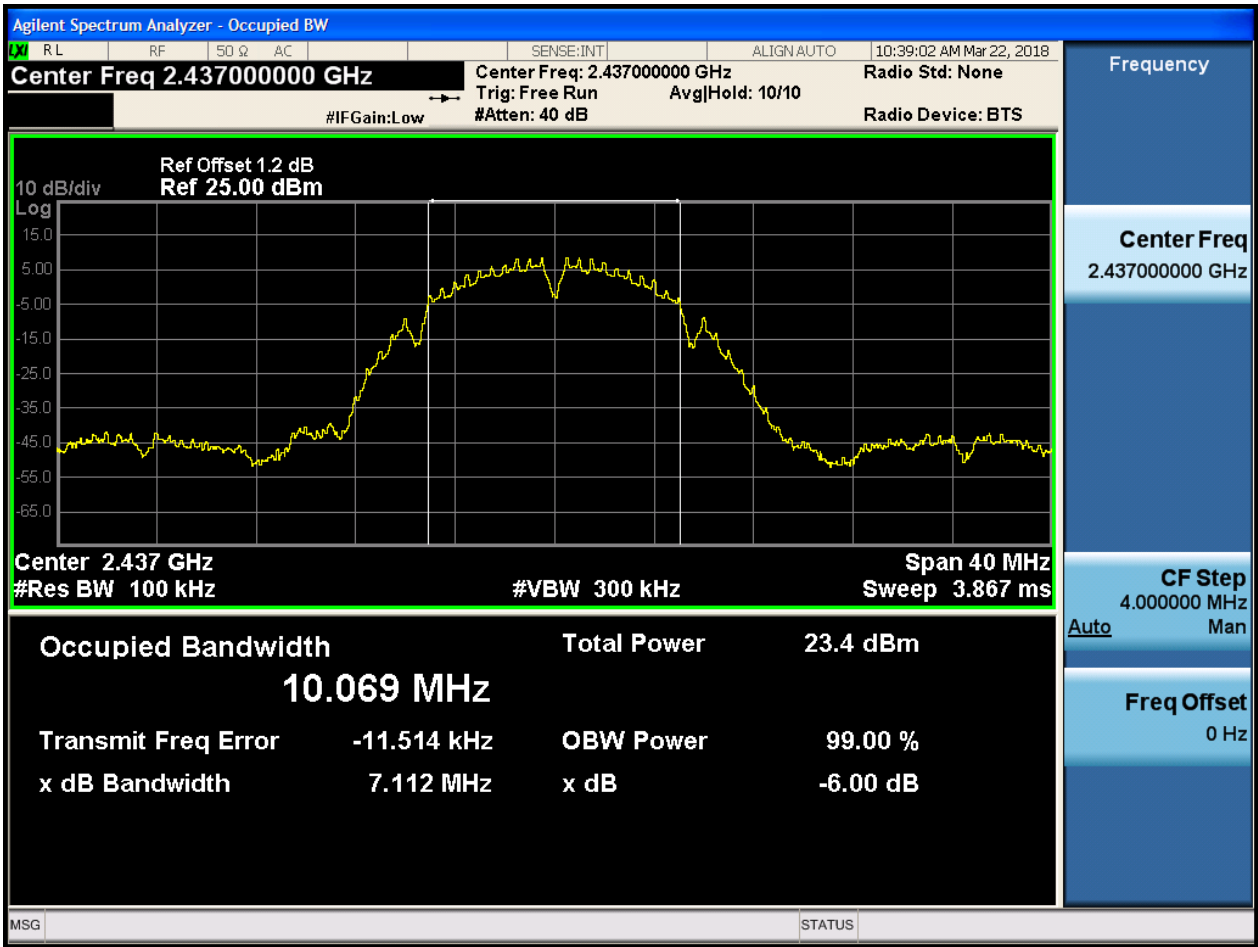
2.5 11B\_M@Ant 1





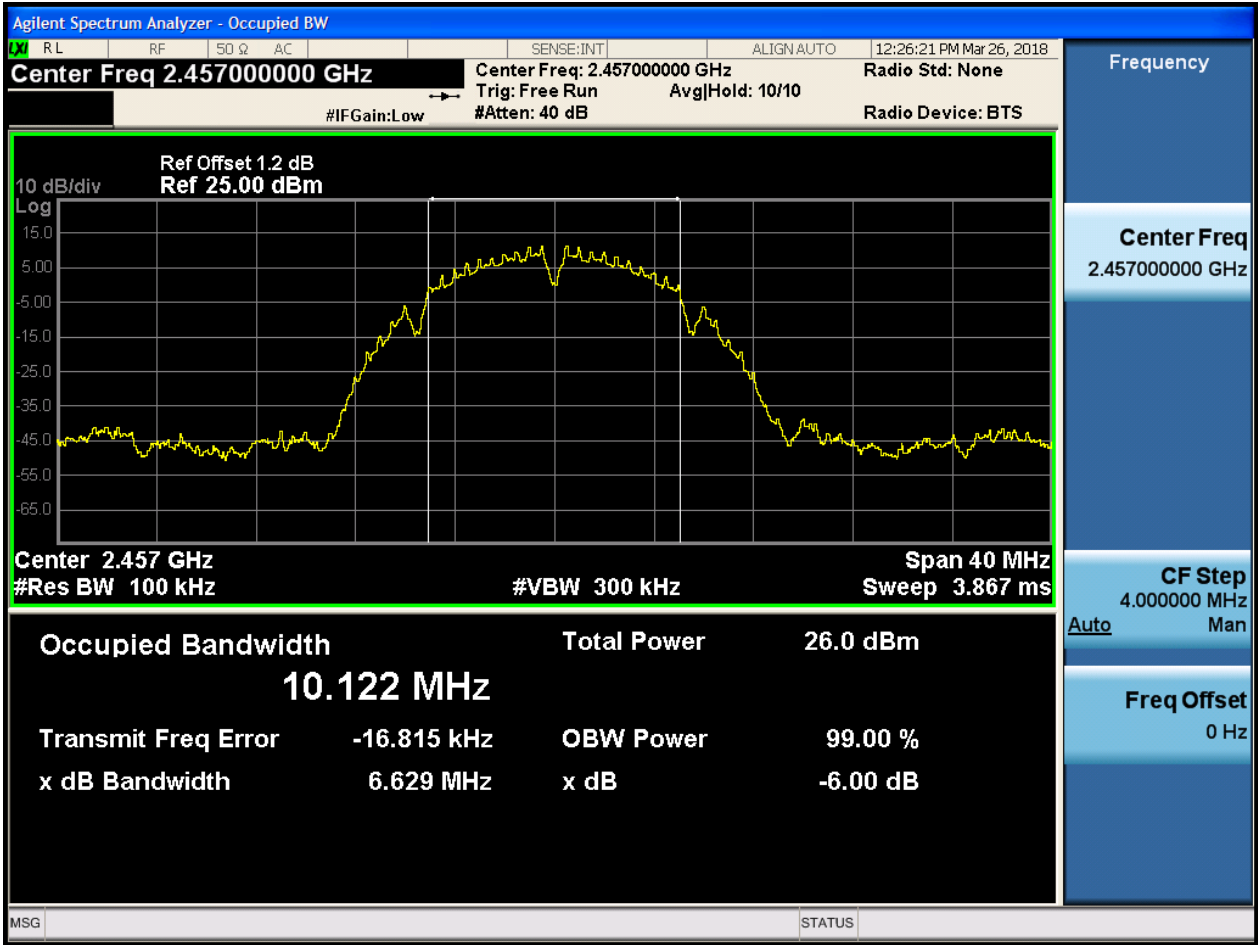


2.6 11B\_M@Ant 2



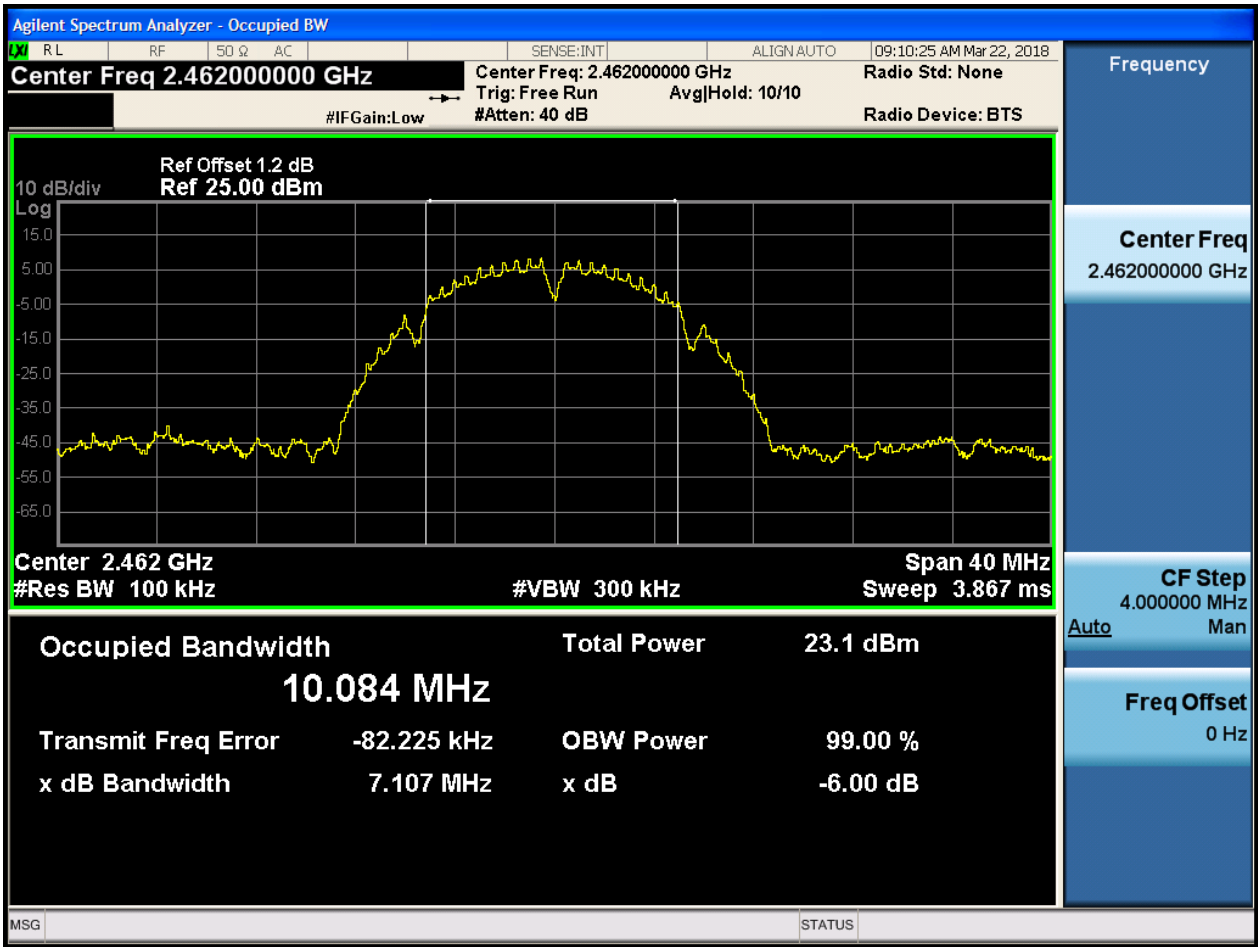


2.7 11B\_H\_2457@Ant 1



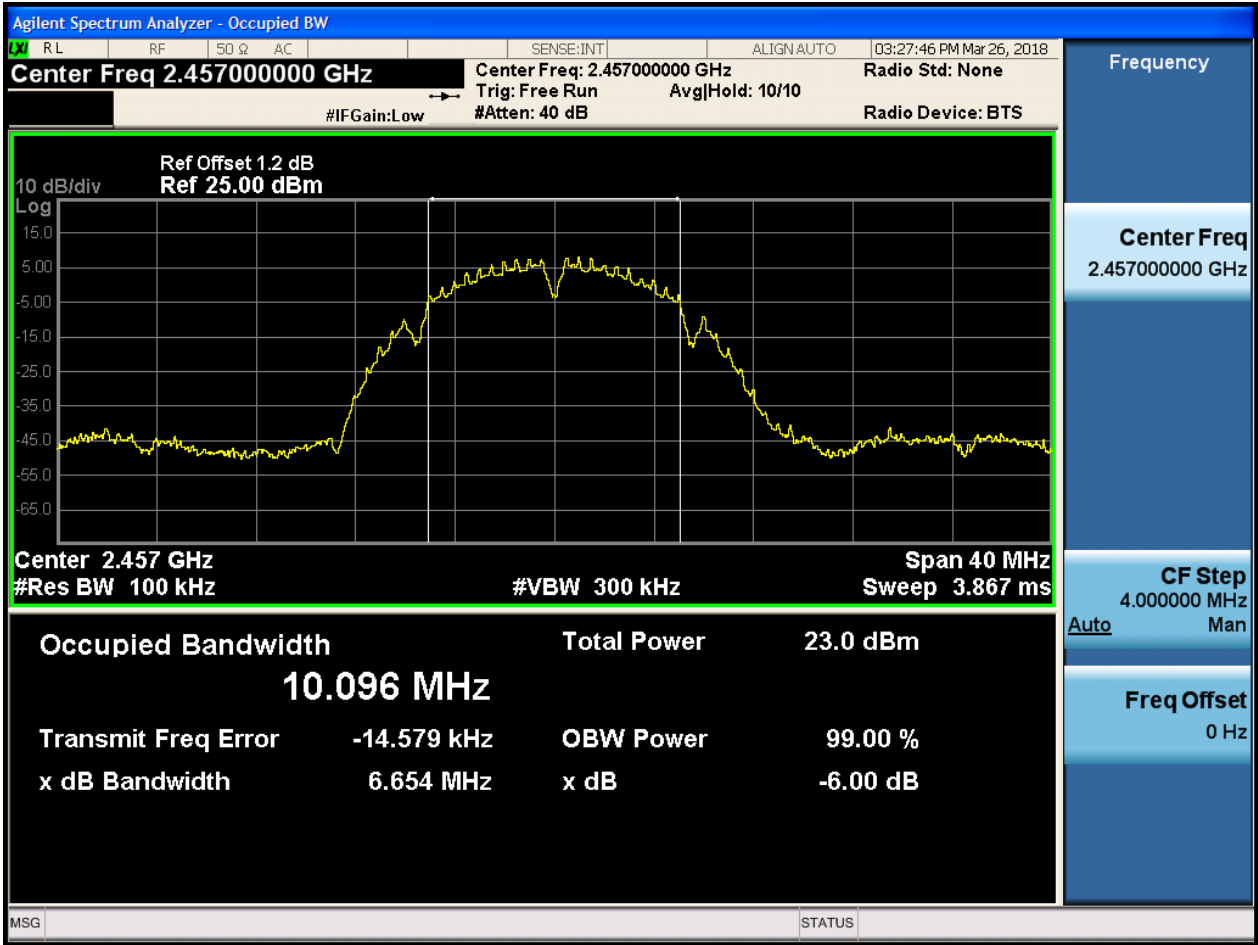


2.8 11B\_H\_2462@Ant 1



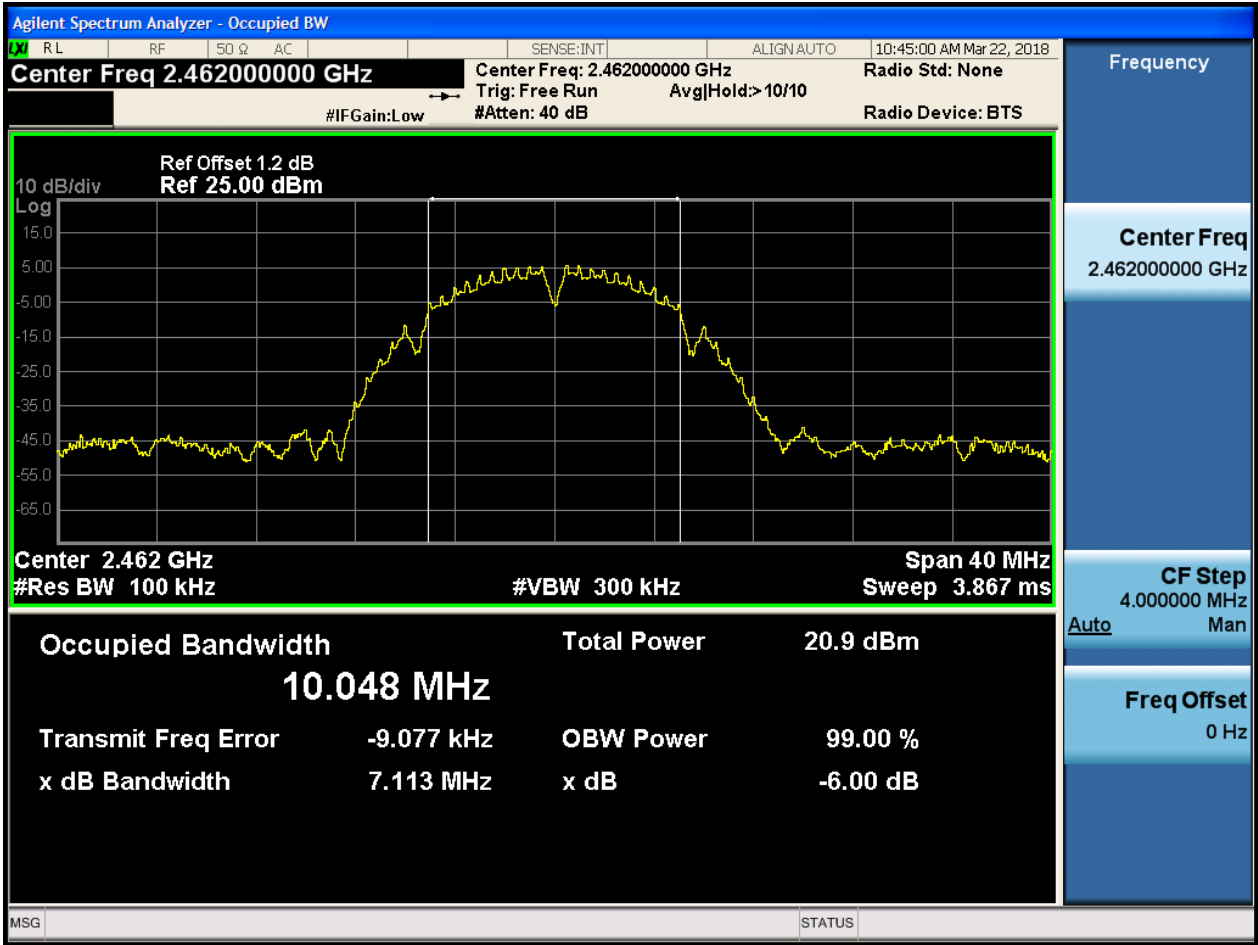


2.9 11B\_H\_2457@Ant 2



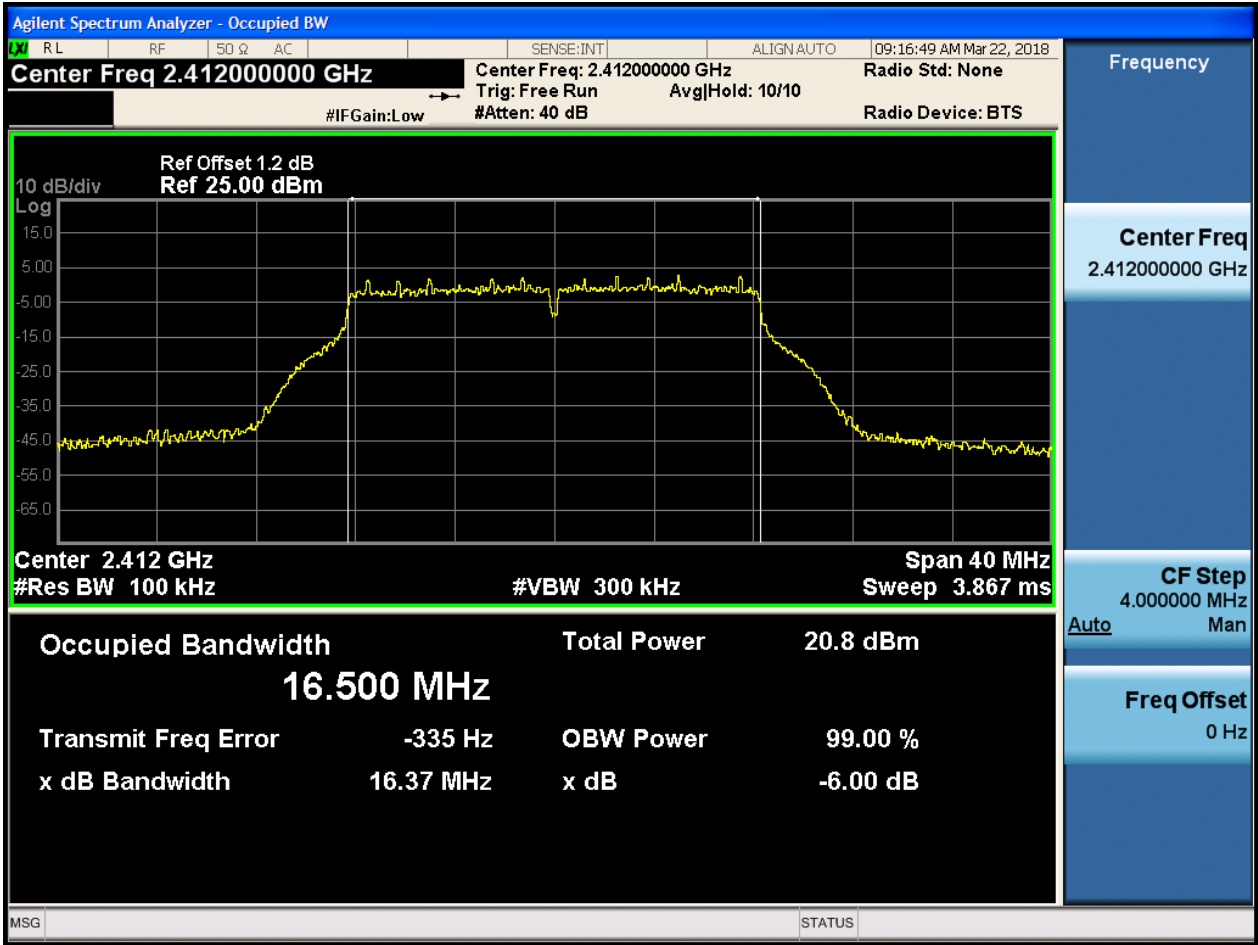


2.10 11B\_H\_2462@Ant 2



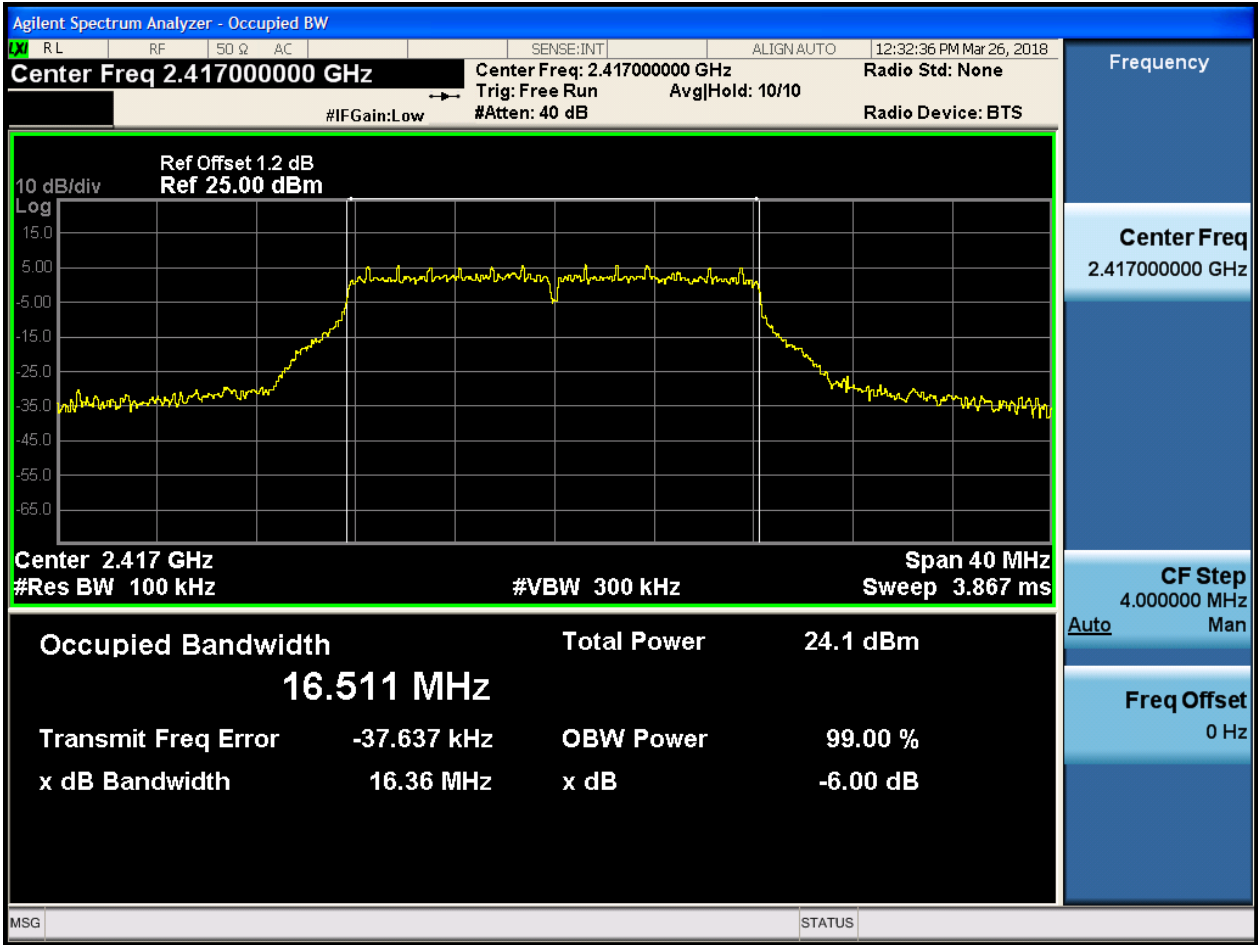


2.11 11G\_L\_2412@Ant 1



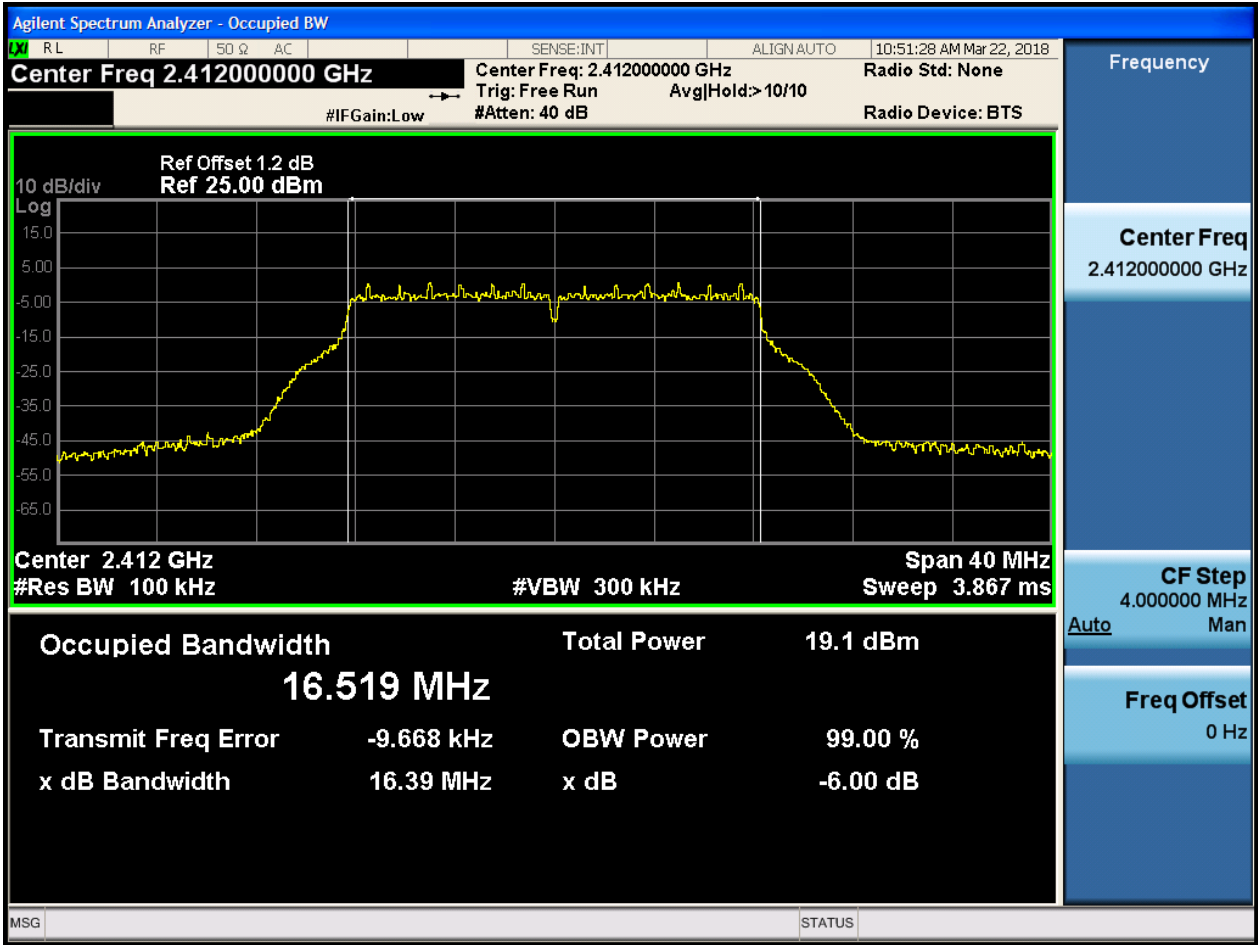


2.12 11G\_L\_2417@Ant 1





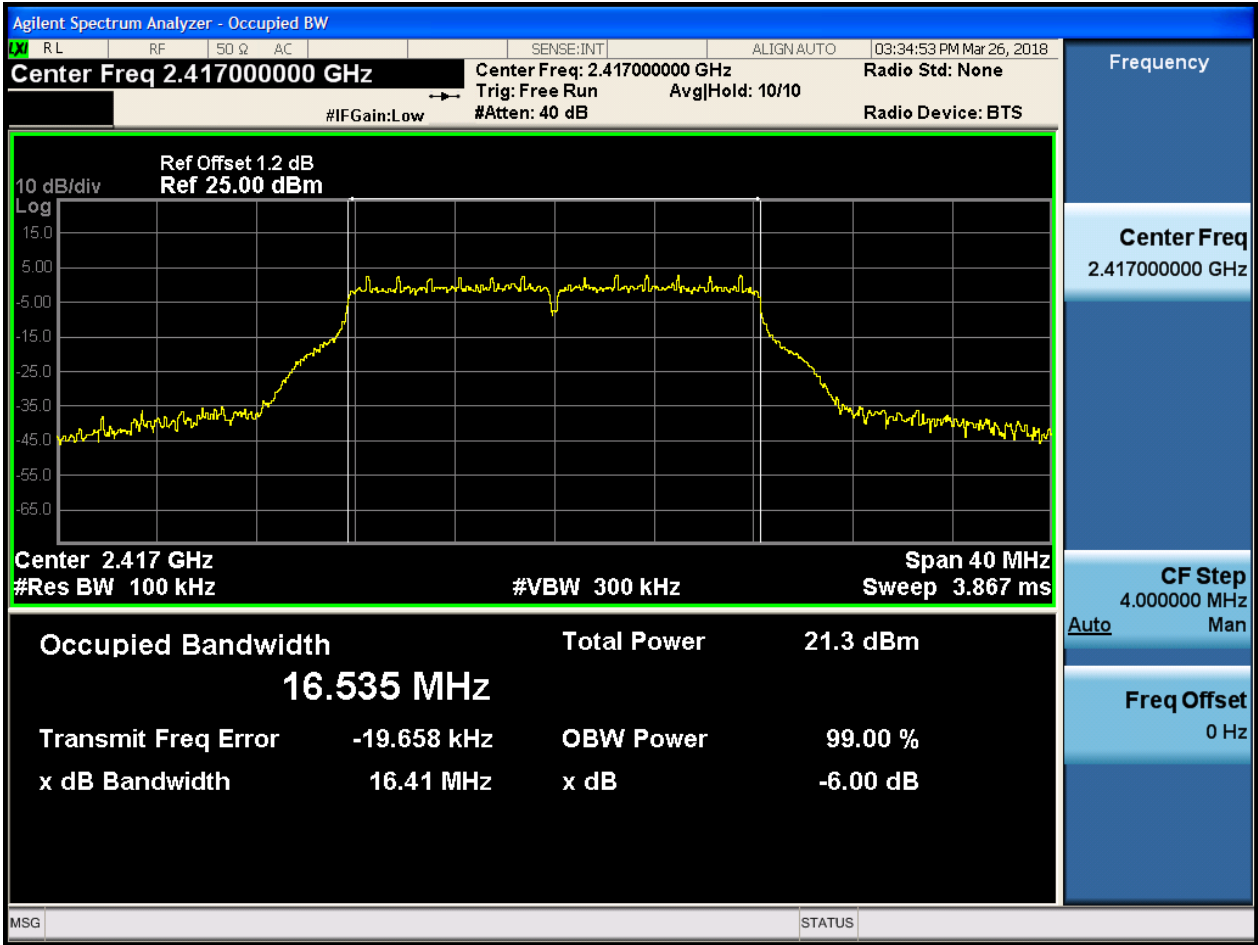
2.13 11G\_L\_2412@Ant 2





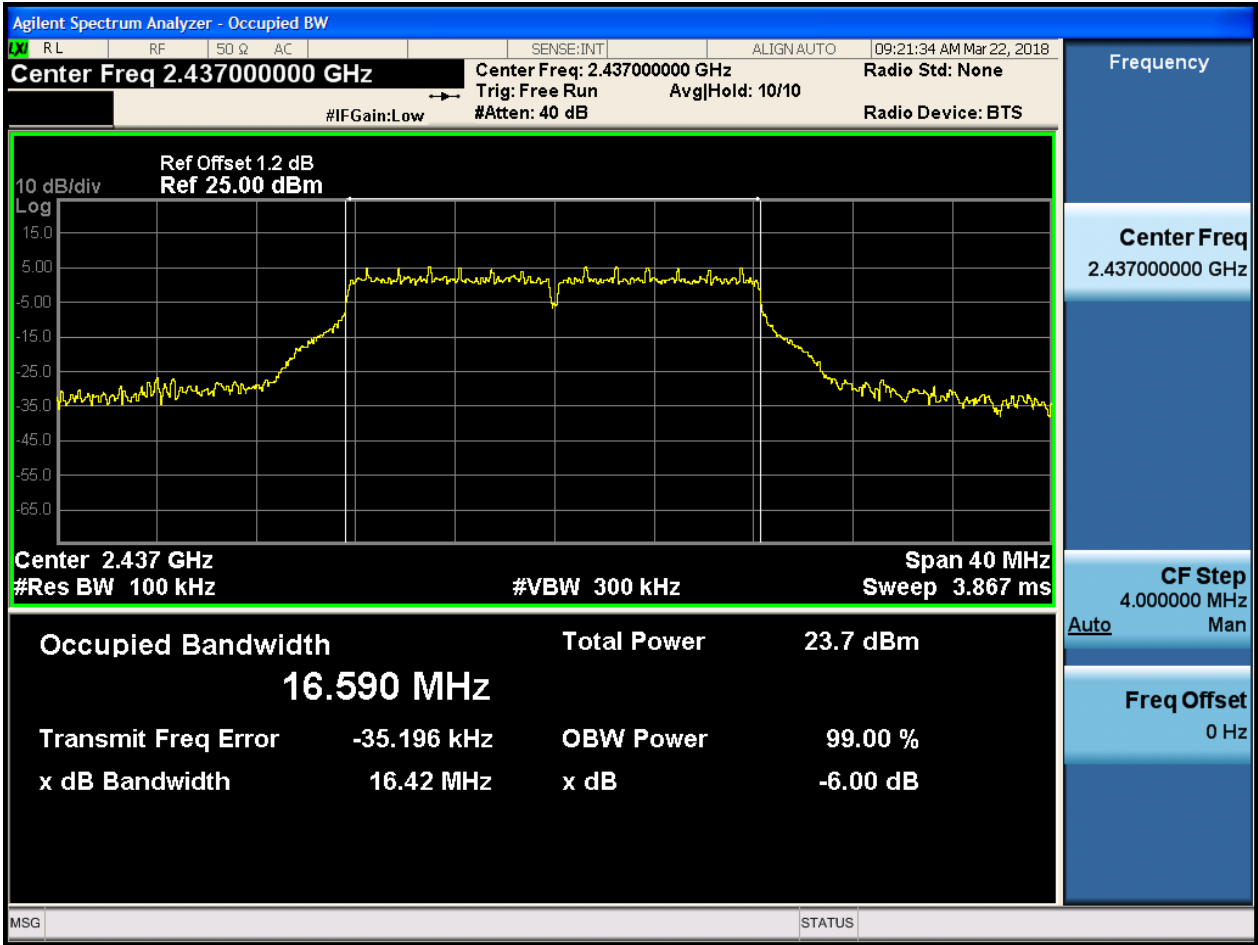


2.14 11G\_L\_2417@Ant 2



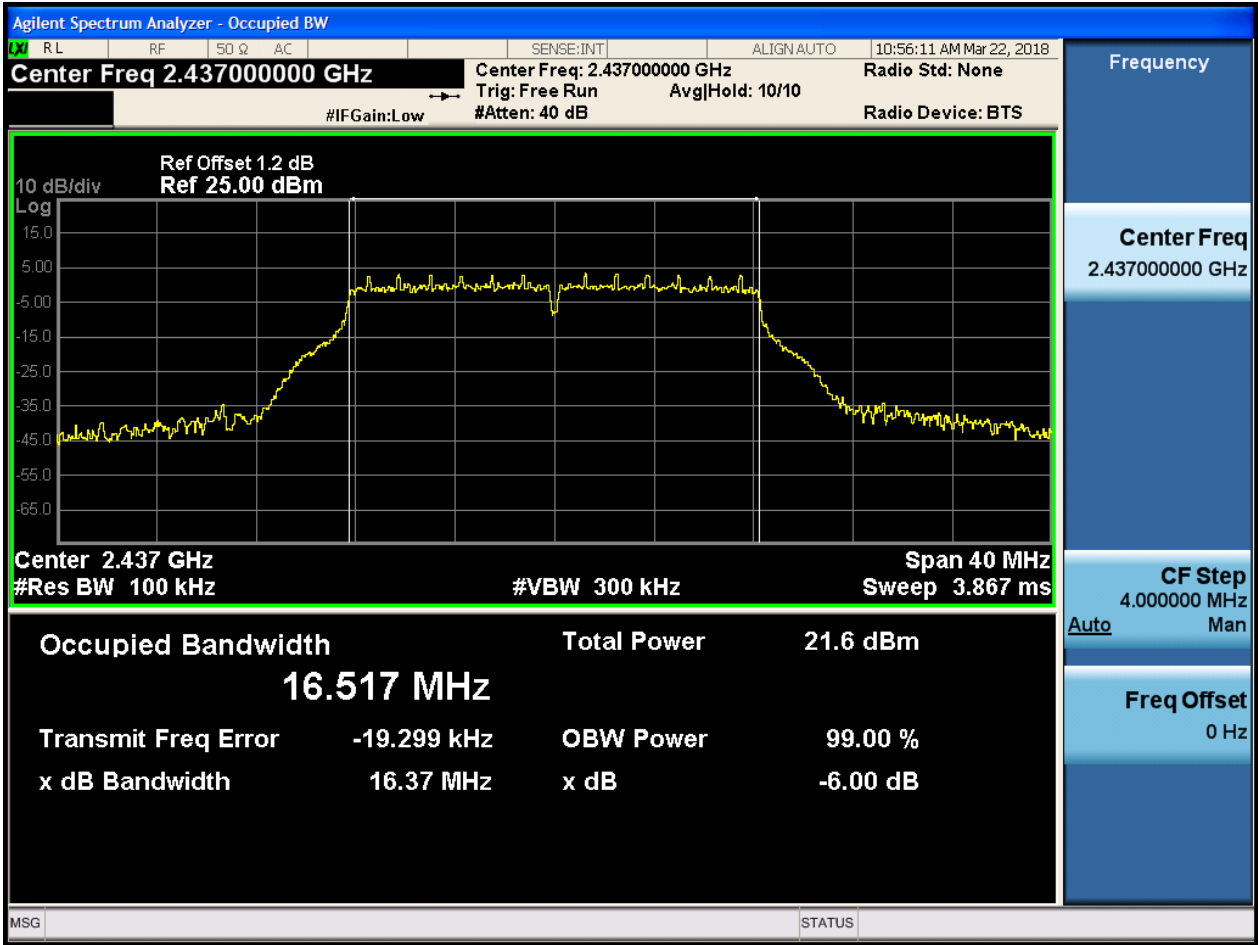


2.15 11G\_M@Ant 1



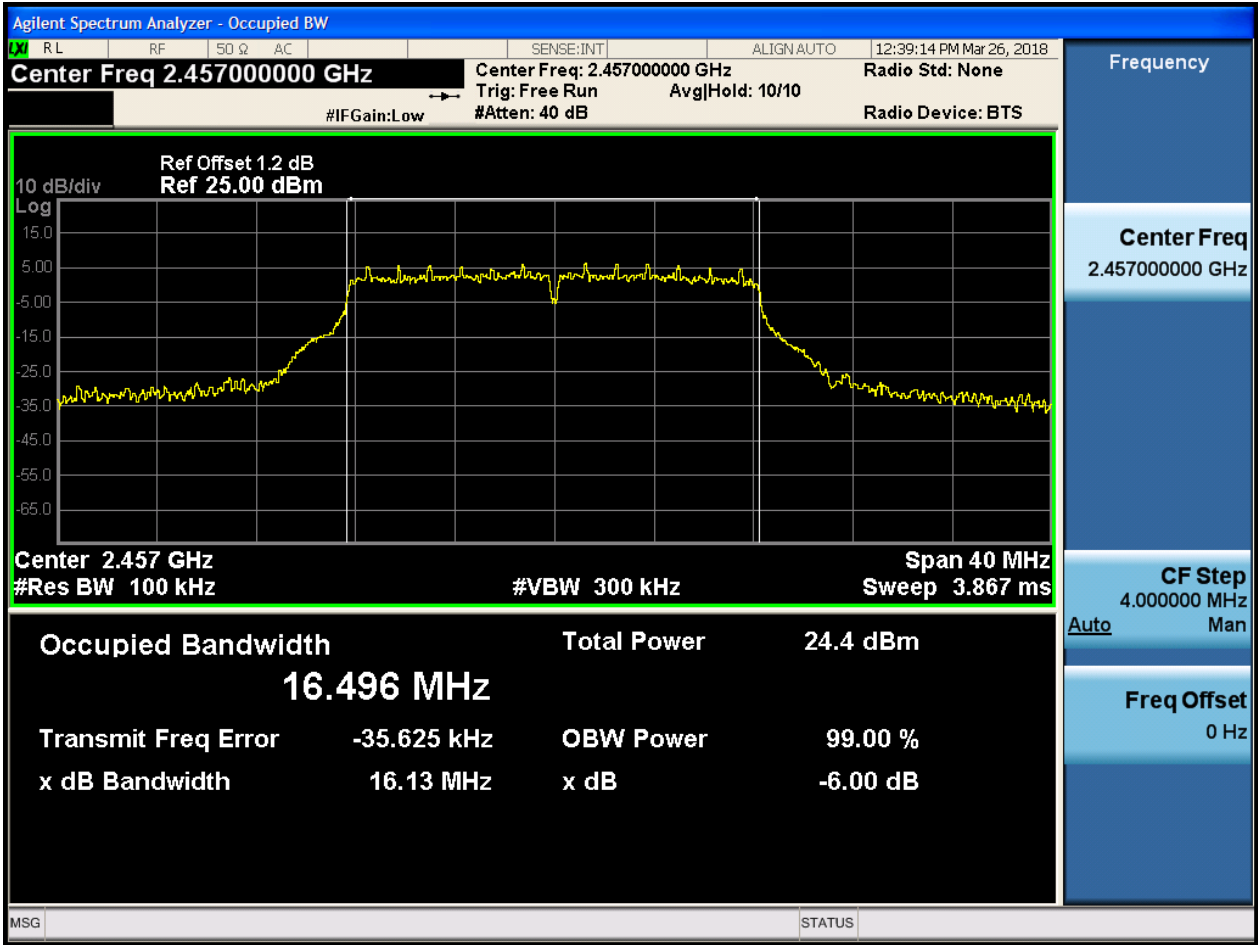


2.16 11G\_M@Ant 2



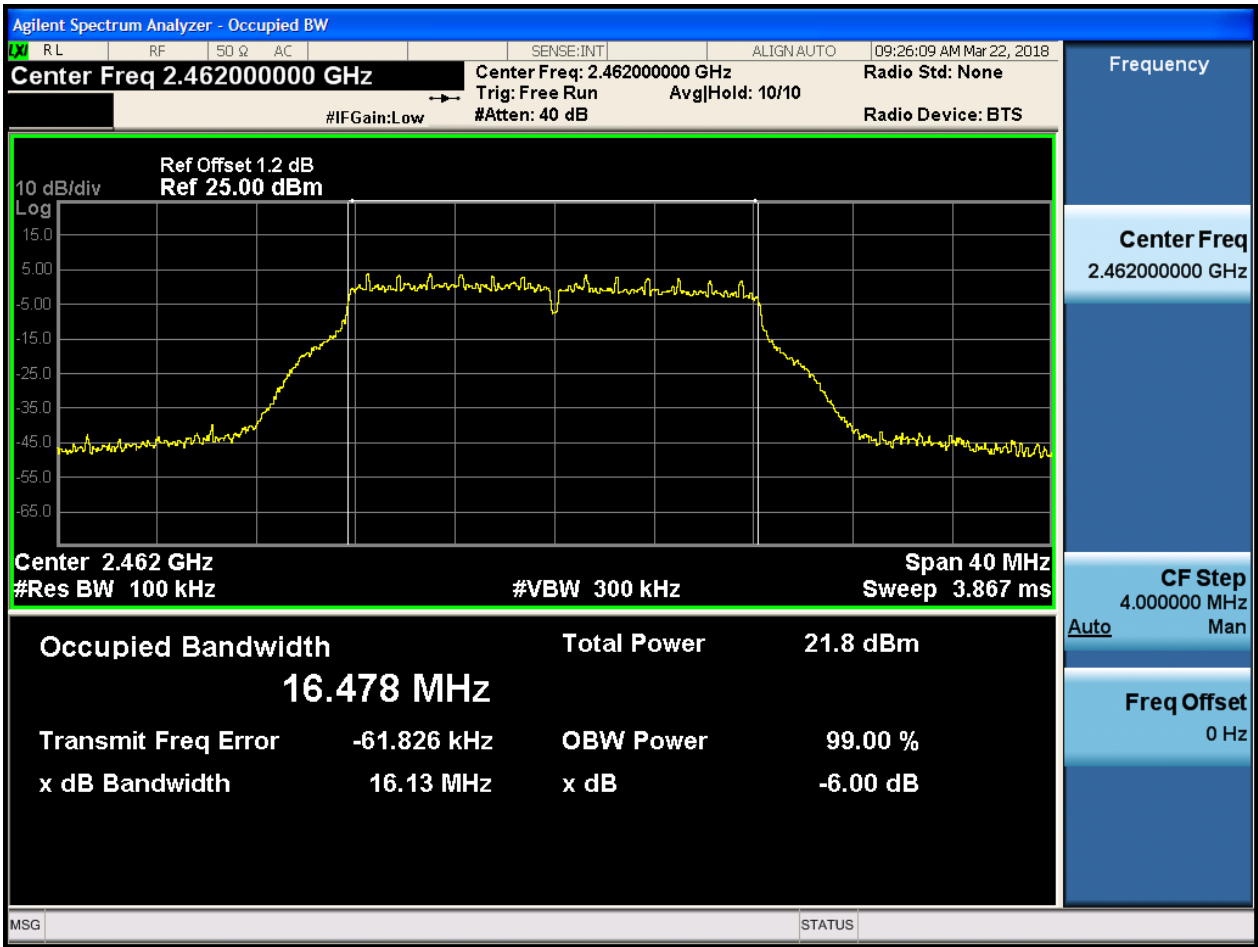


2.17 11G\_H\_2457@Ant 1



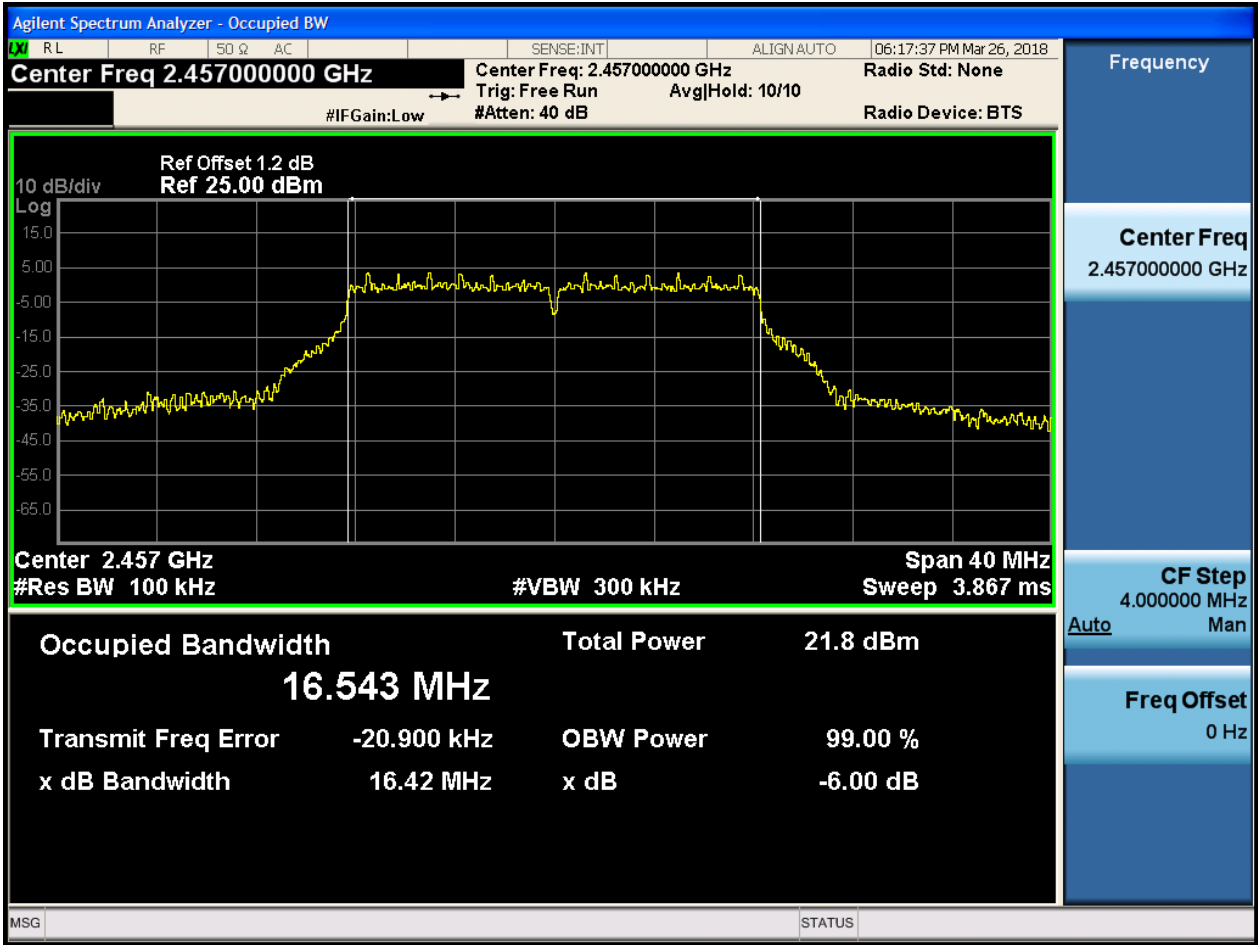


2.18 11G\_H\_2462@Ant 1



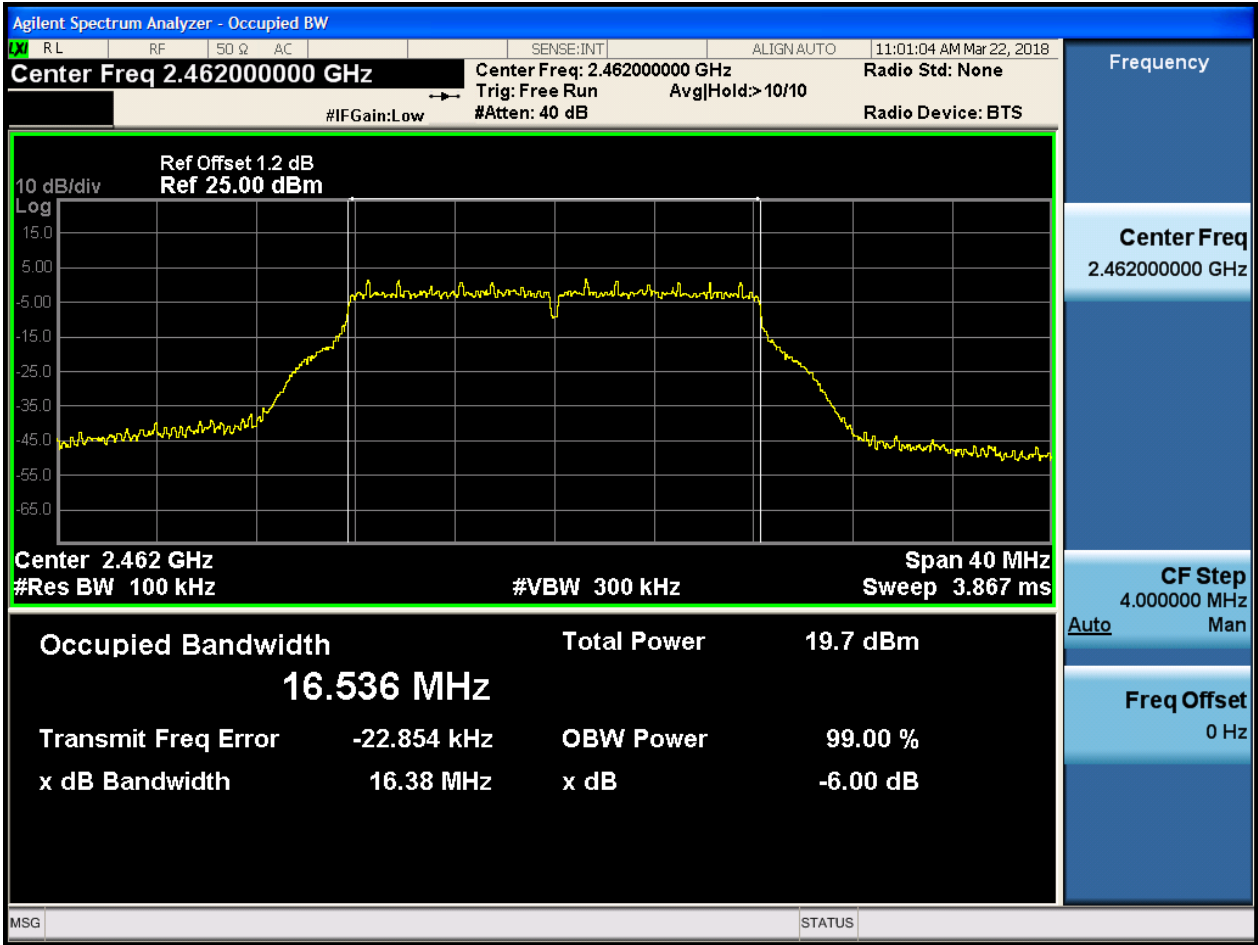


2.19 11G\_H\_2457@Ant 2



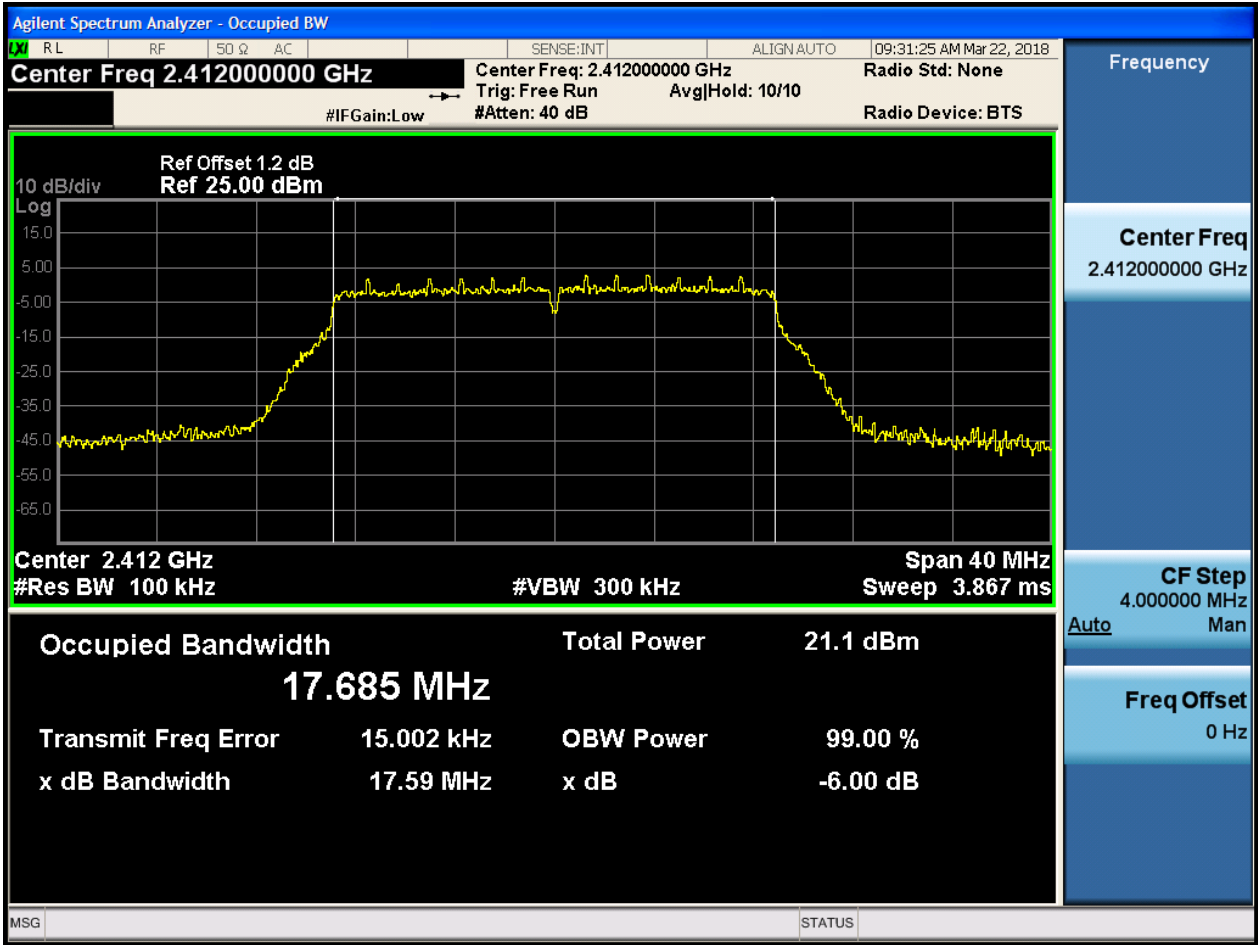


2.20 11G\_H\_2462@Ant 2





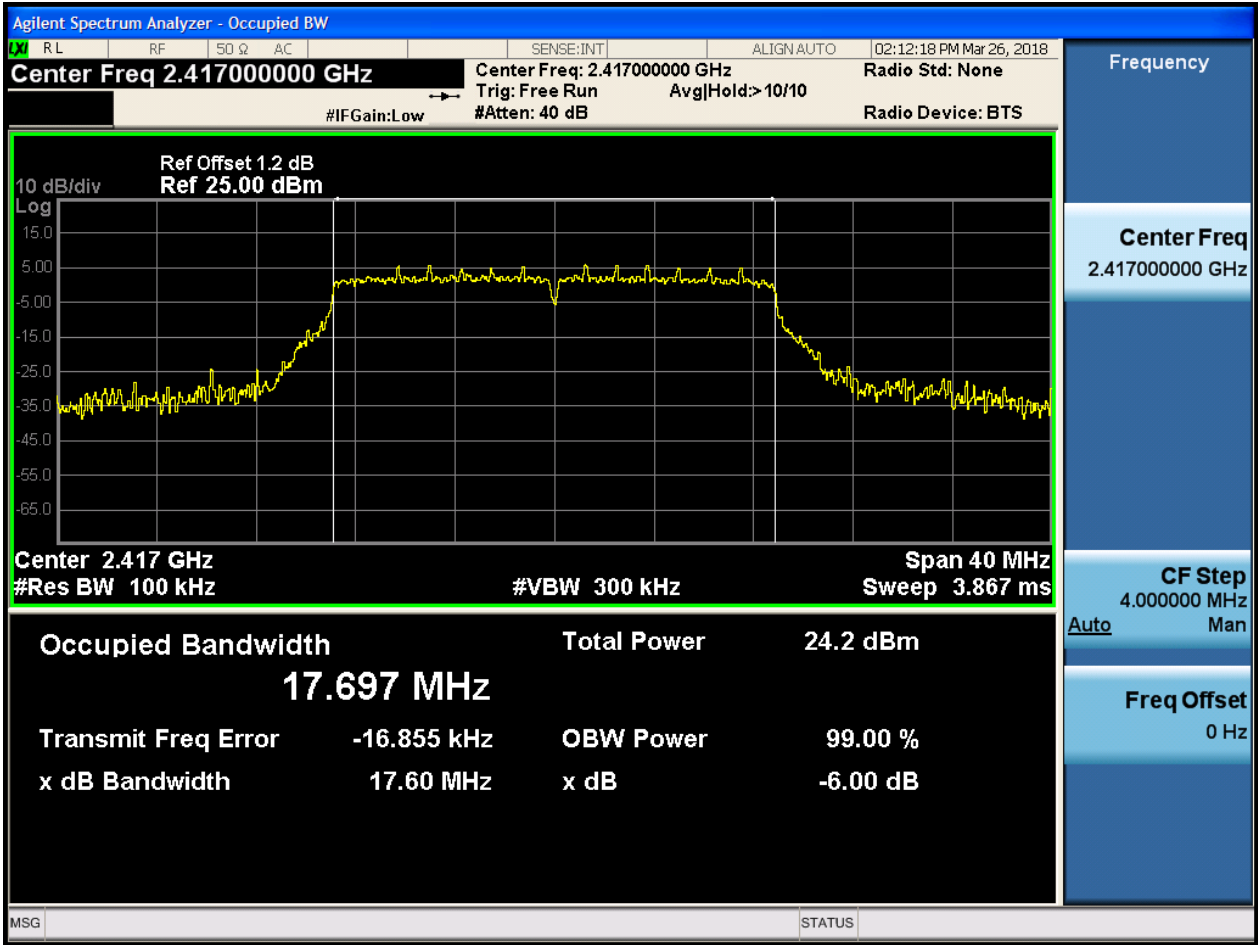
2.21 11N20\_L\_2412@Ant 1





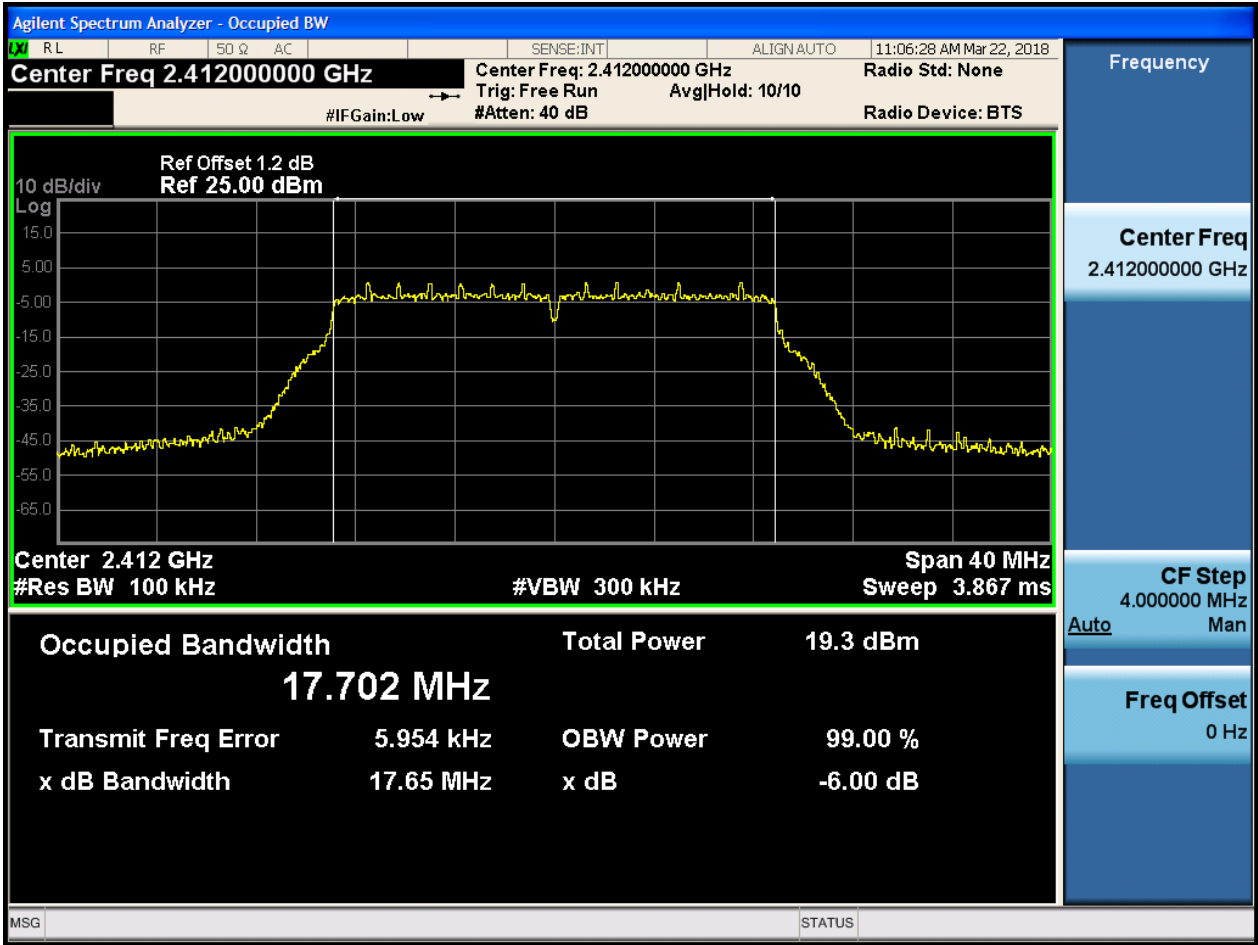


2.22 11N20\_L\_2417@Ant 1



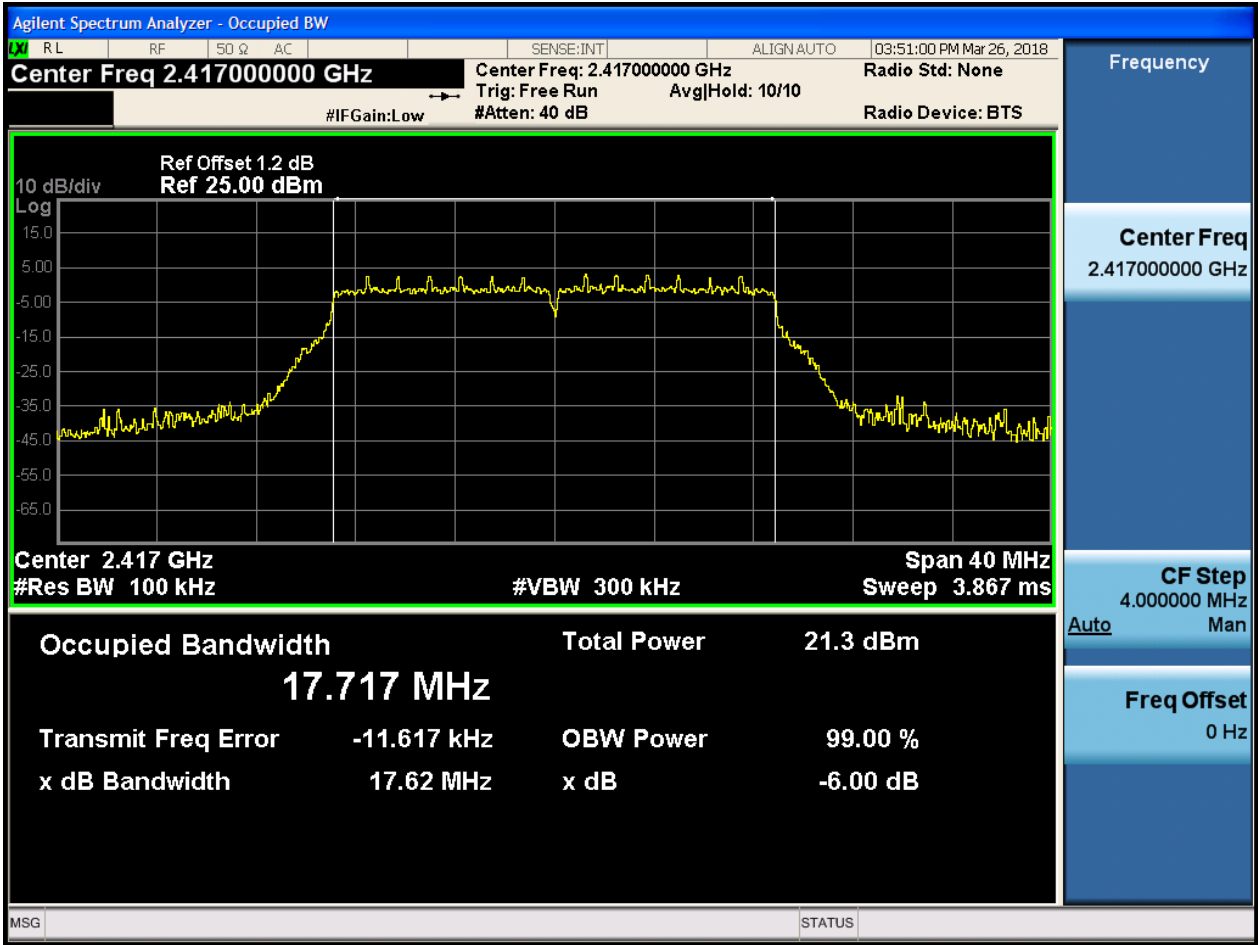


2.23 11N20\_L\_2412@Ant 2



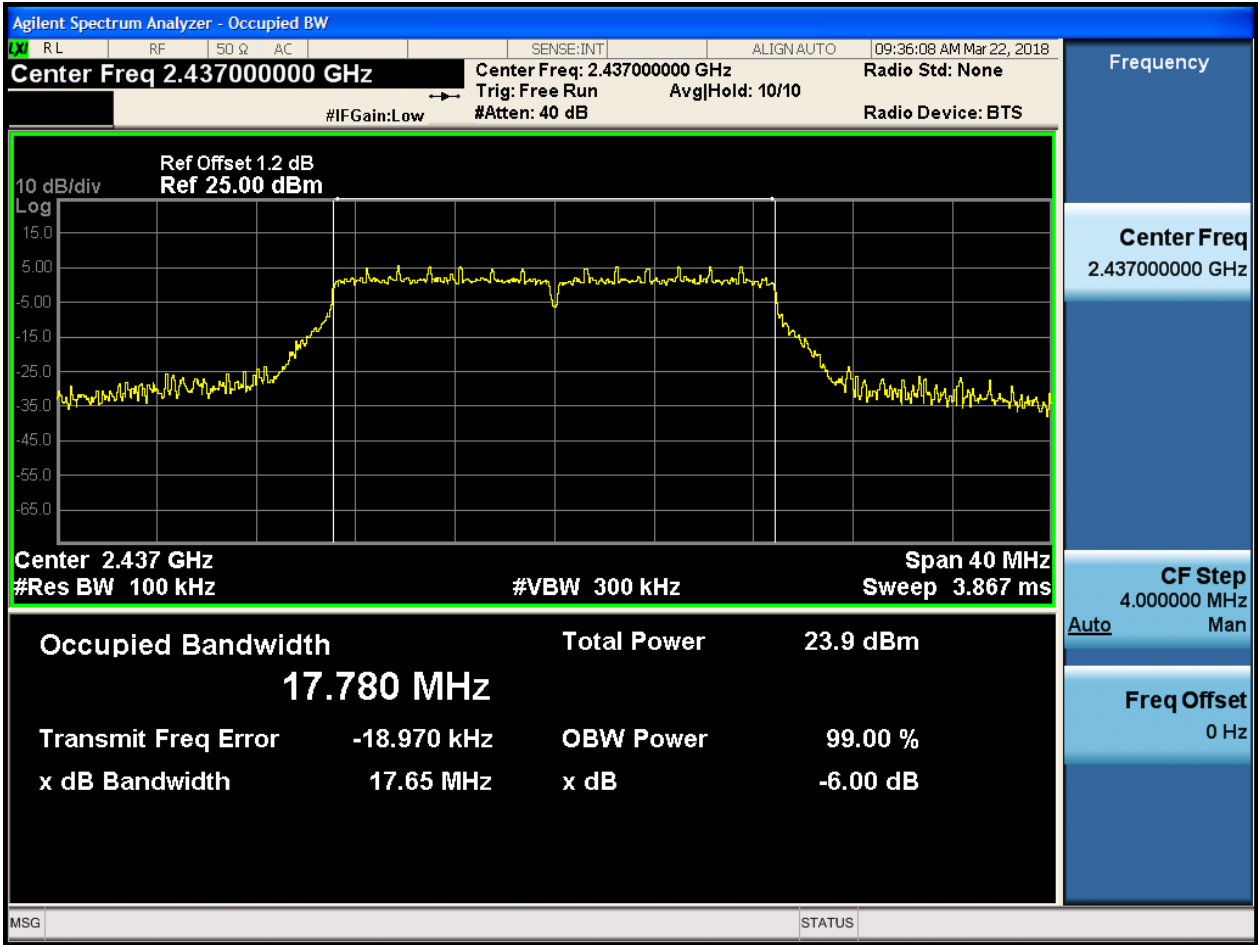


2.24 11N20\_L\_2417@Ant 2



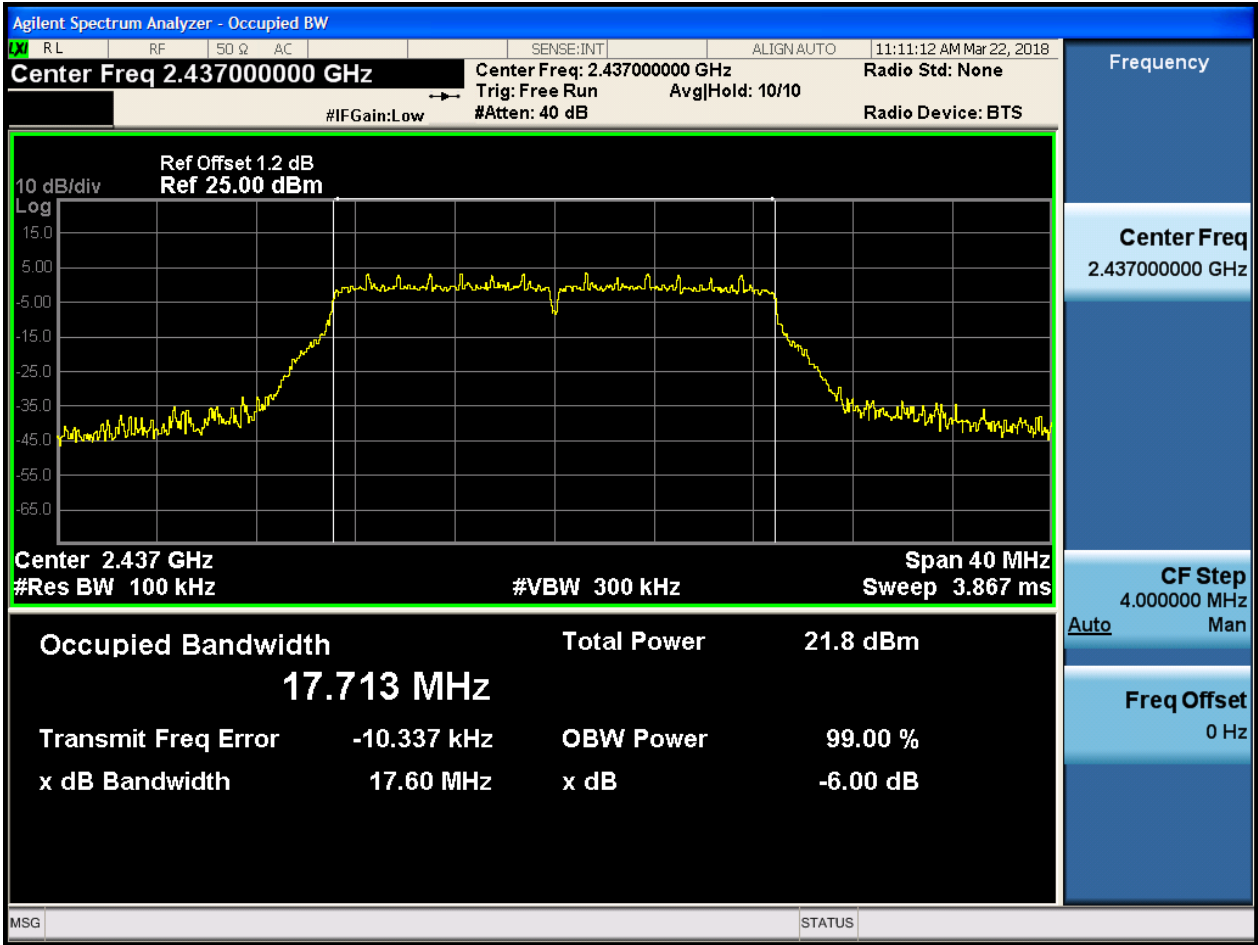


2.25 11N20\_M@Ant 1



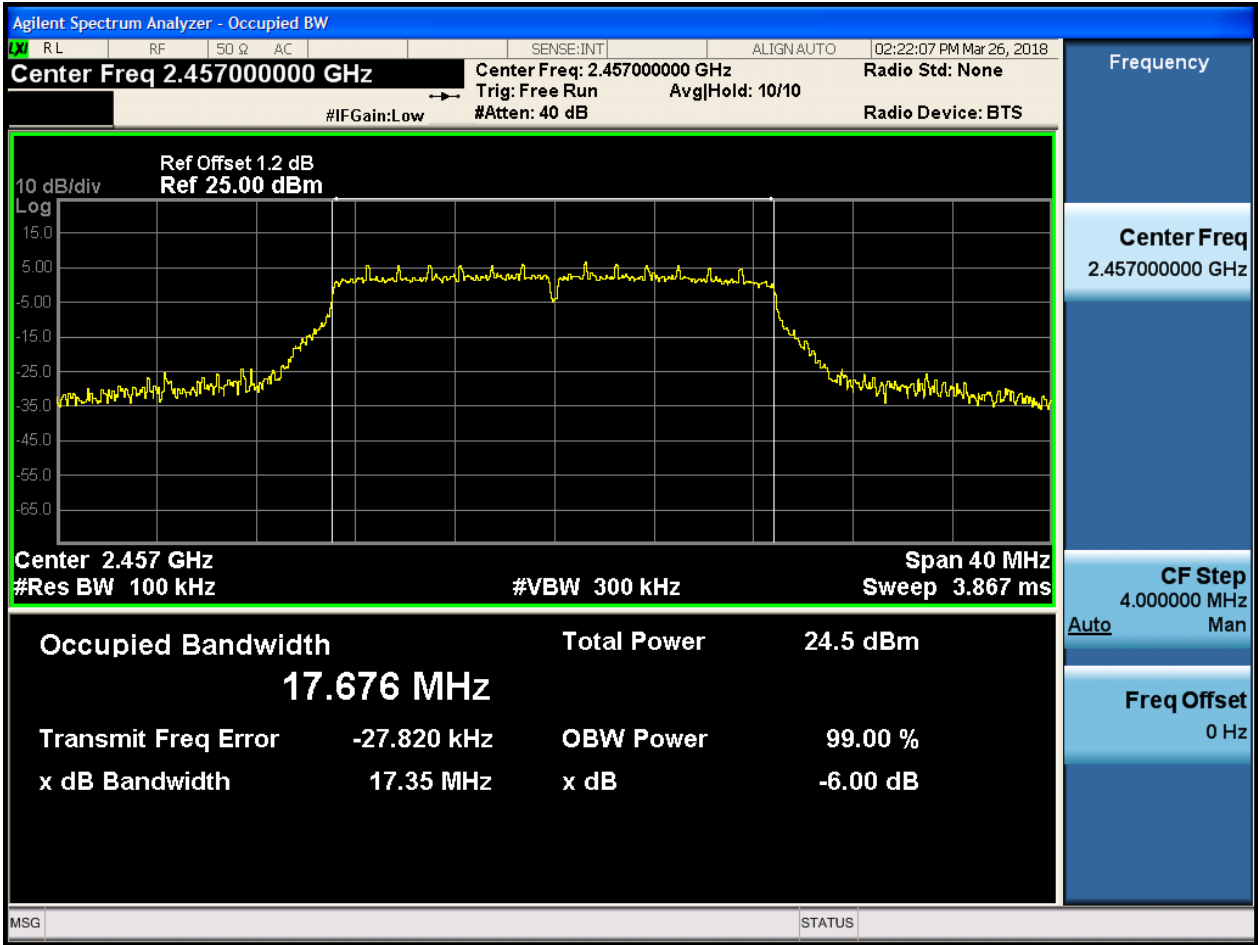


2.26 11N20\_M@Ant 2



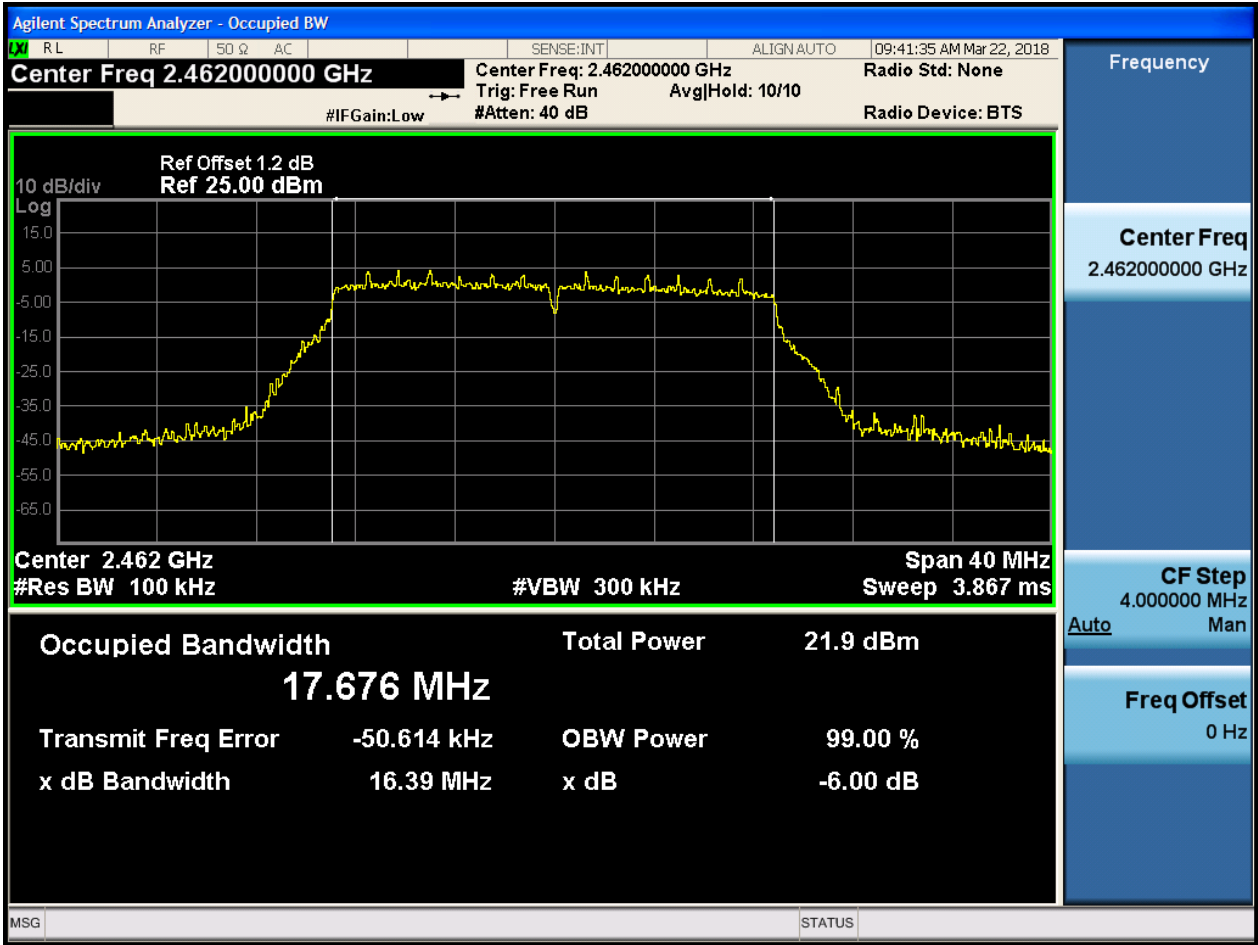


2.27 11N20\_H\_2457@Ant 1



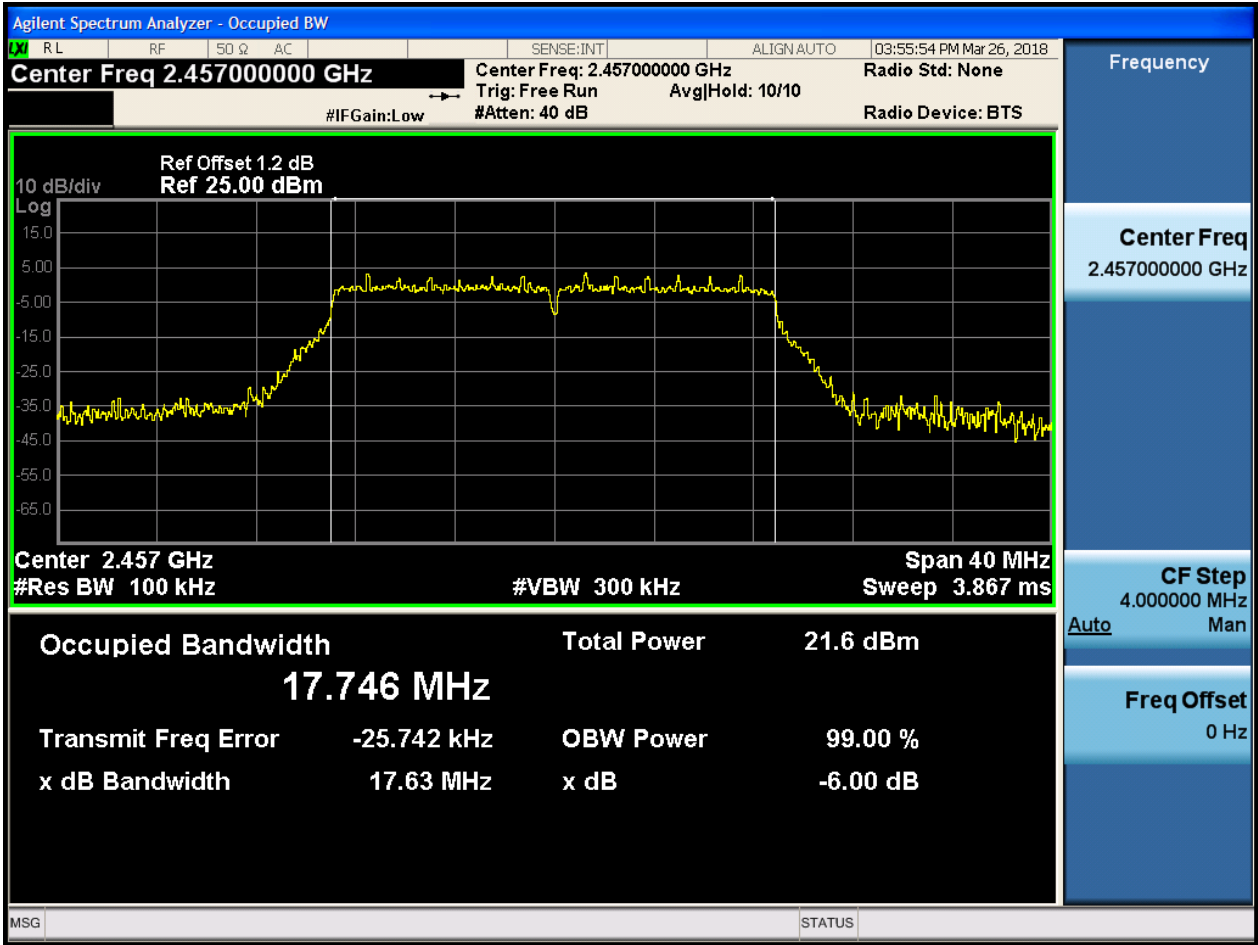


2.28 11N20\_H\_2462@Ant 1





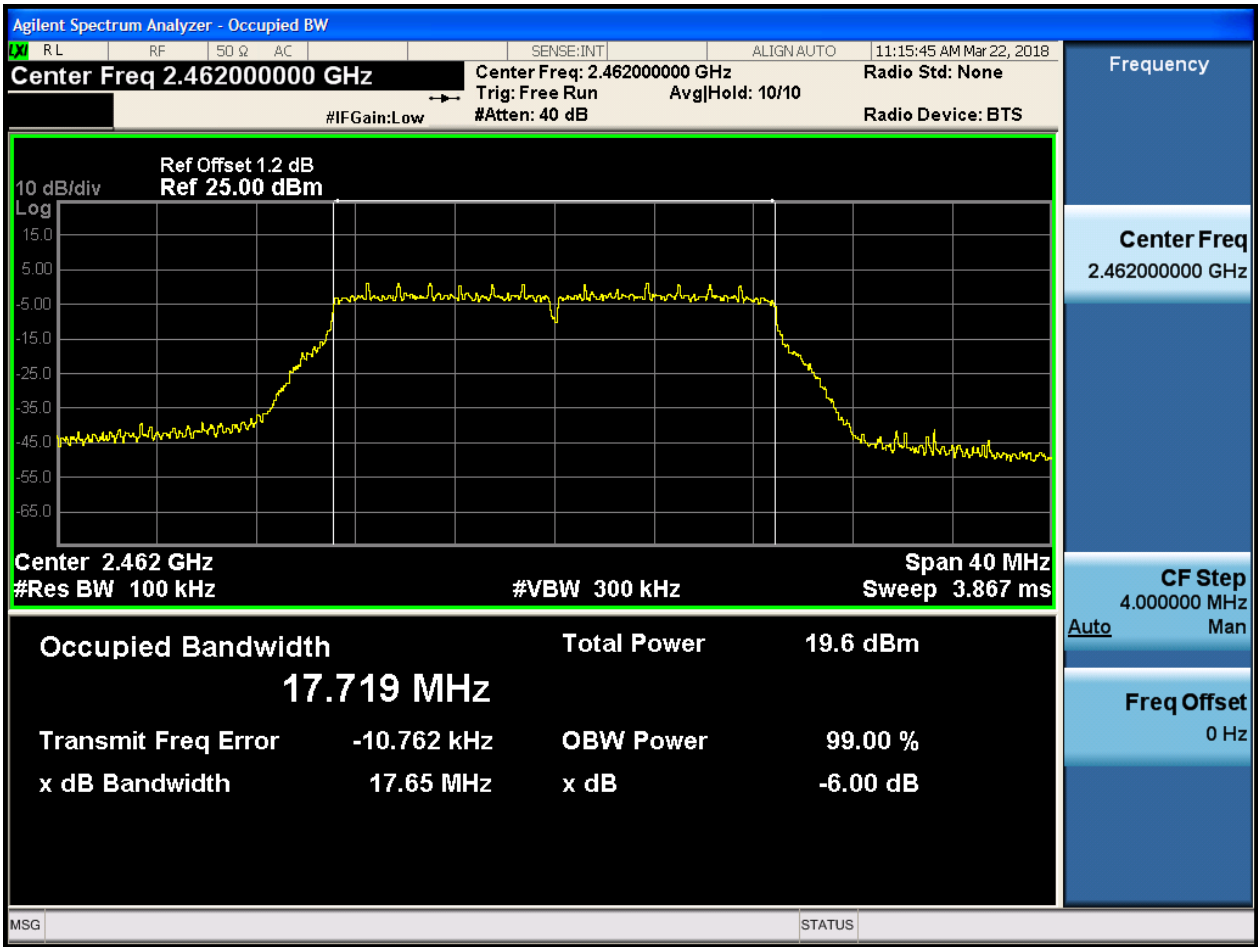
2.29 11N20\_H\_2457@Ant 2





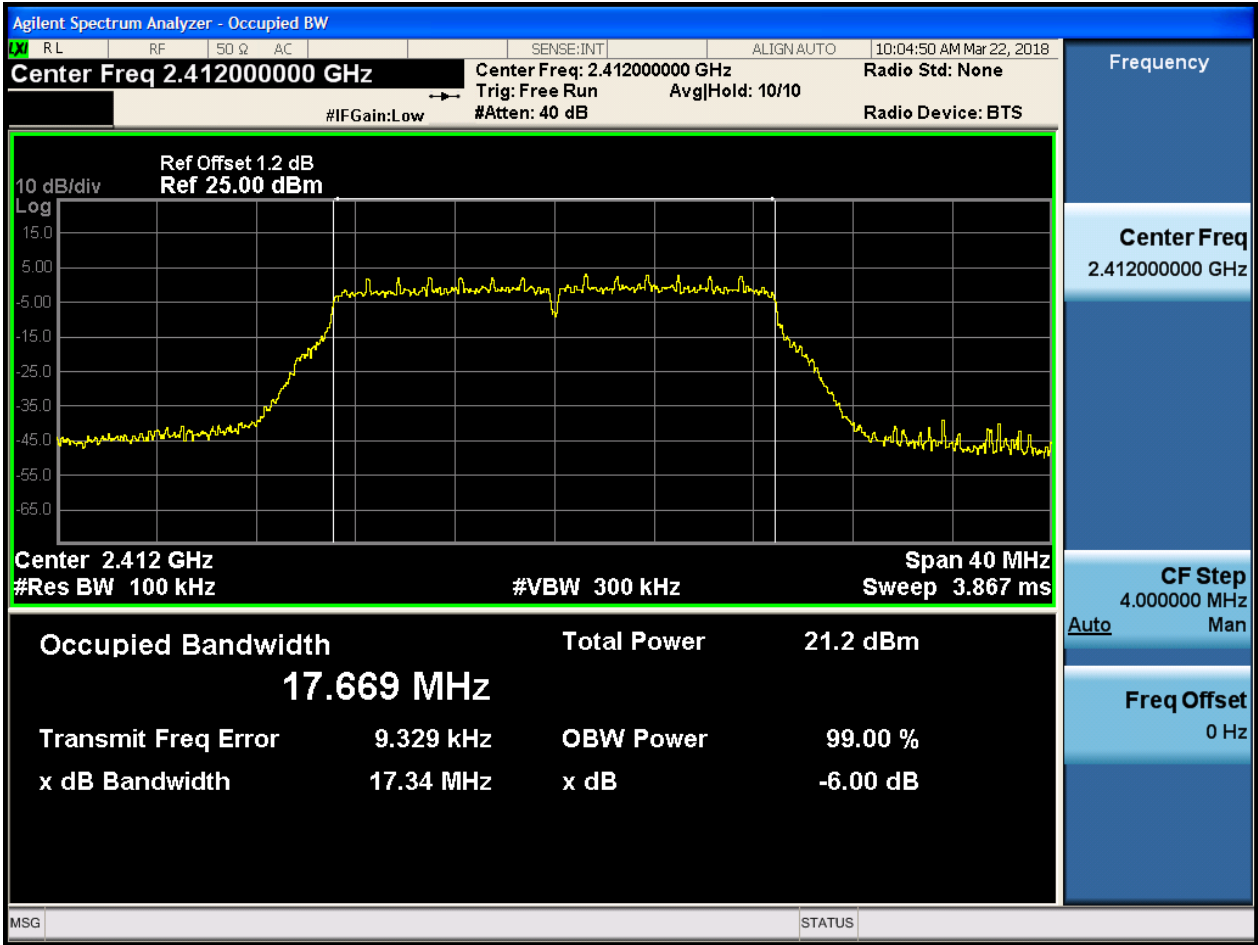


2.30 11N20\_H\_2462@Ant 2



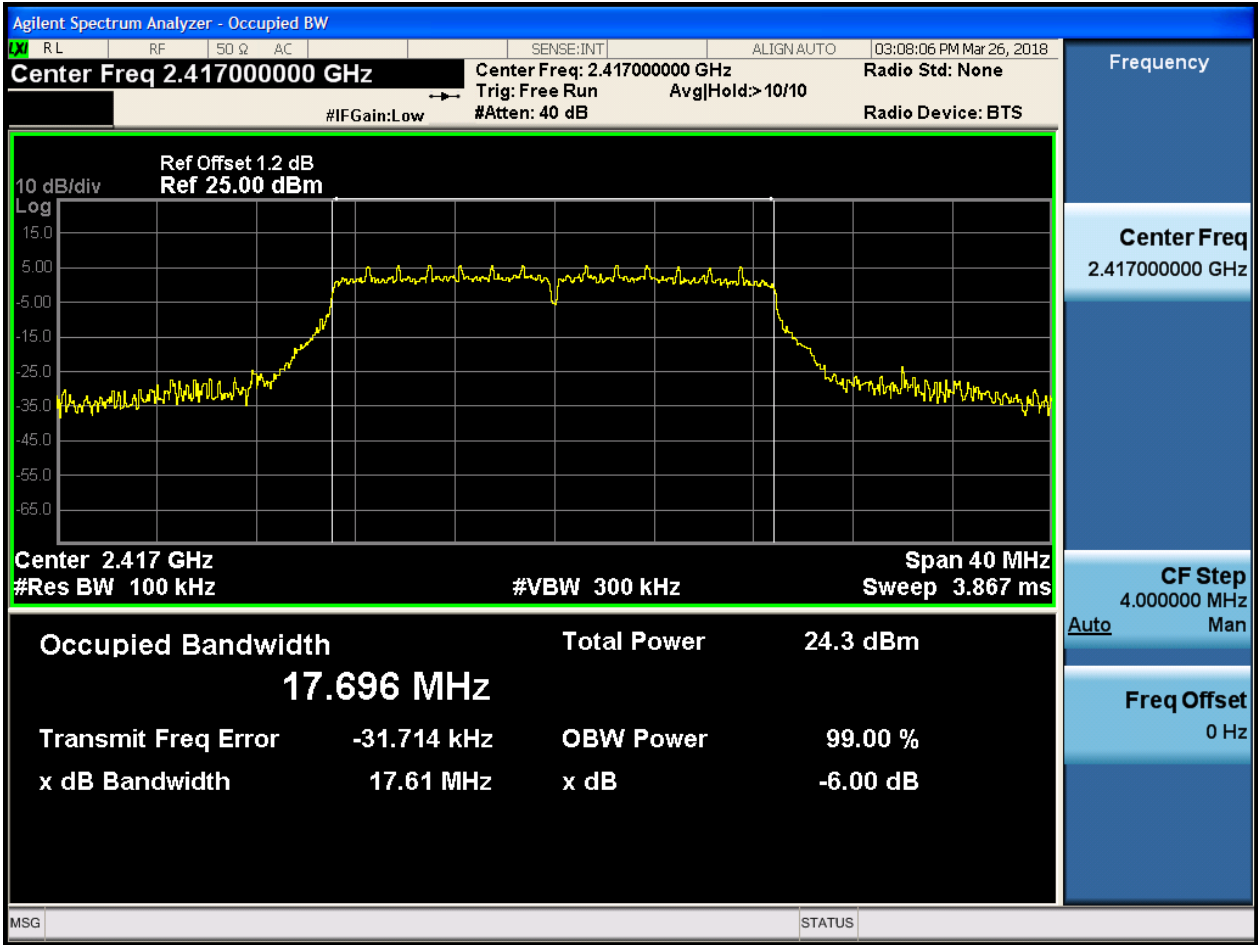


2.31 11N20m\_L\_2412@Ant 1



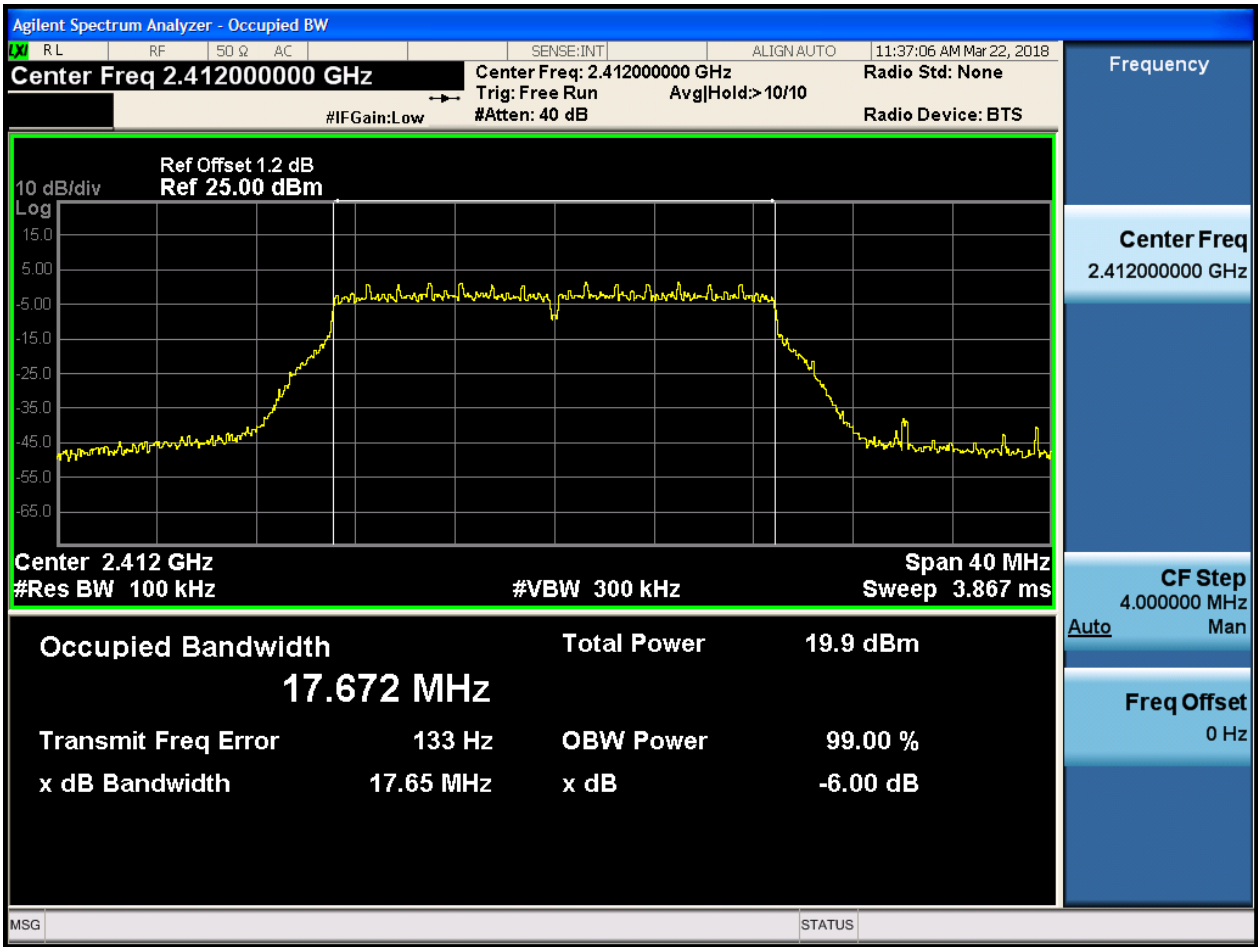


2.32 11N20m\_L\_2417@Ant 1



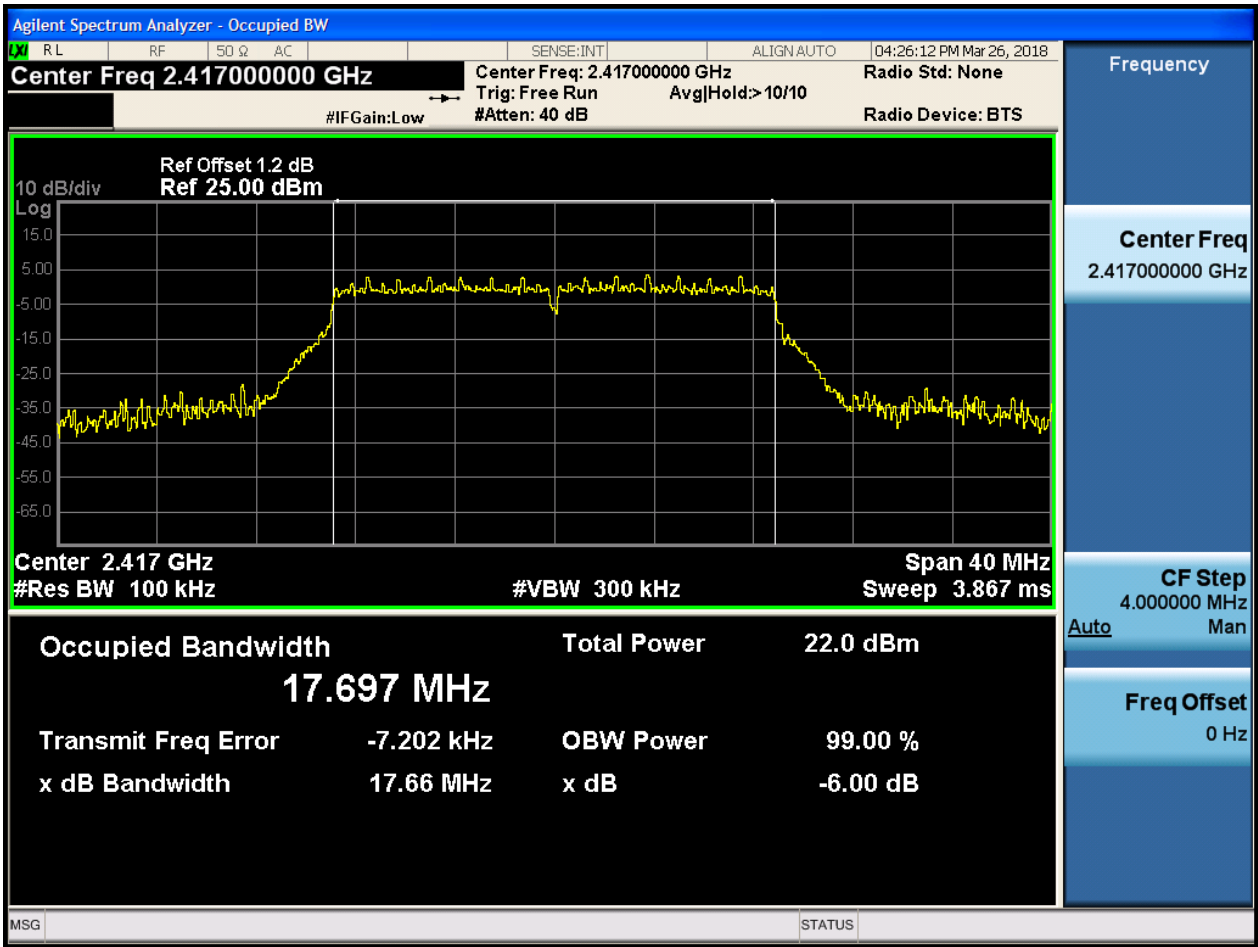


2.33 11N20m\_L\_2412@Ant 2



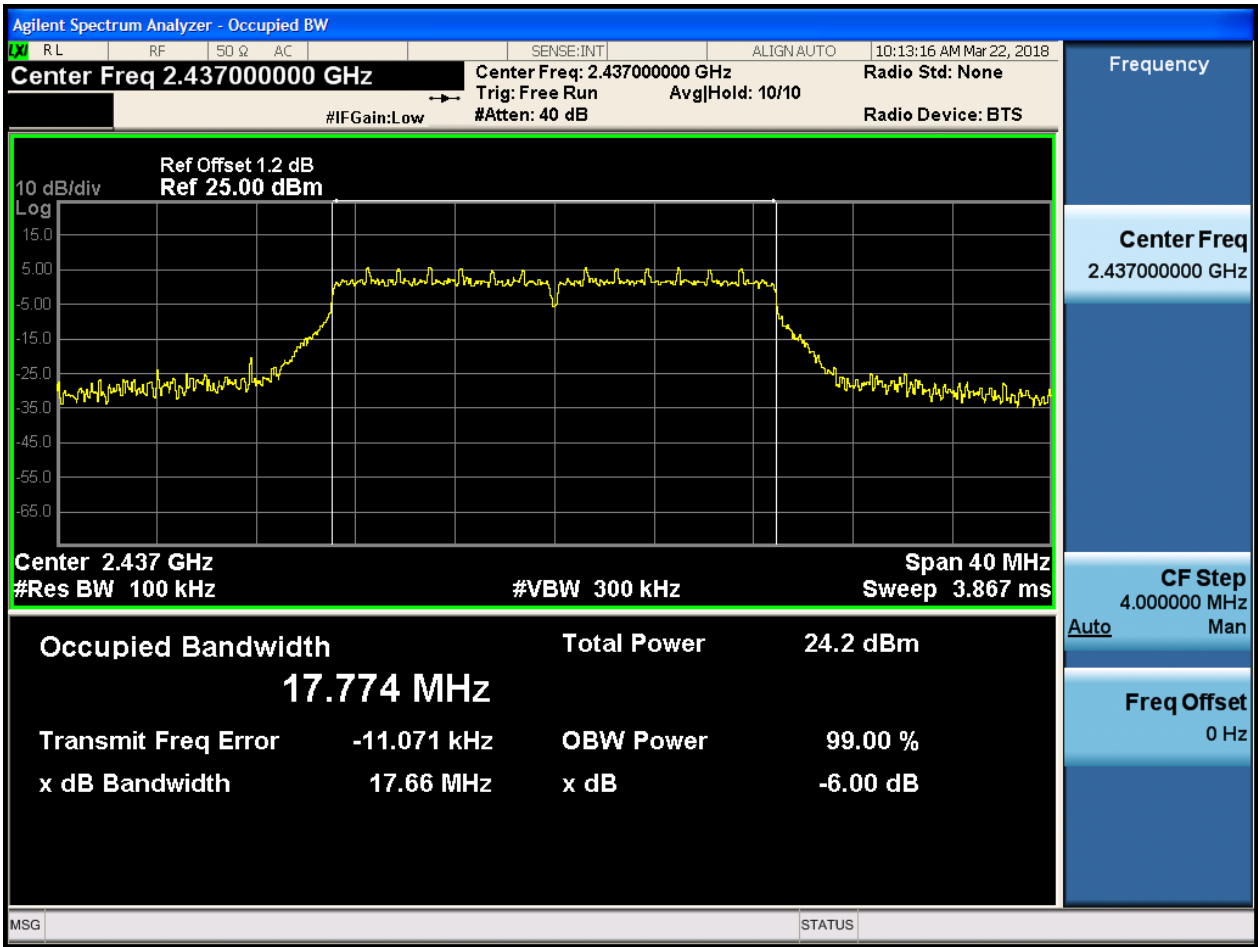


2.34 11N20m\_L\_2417@Ant 2



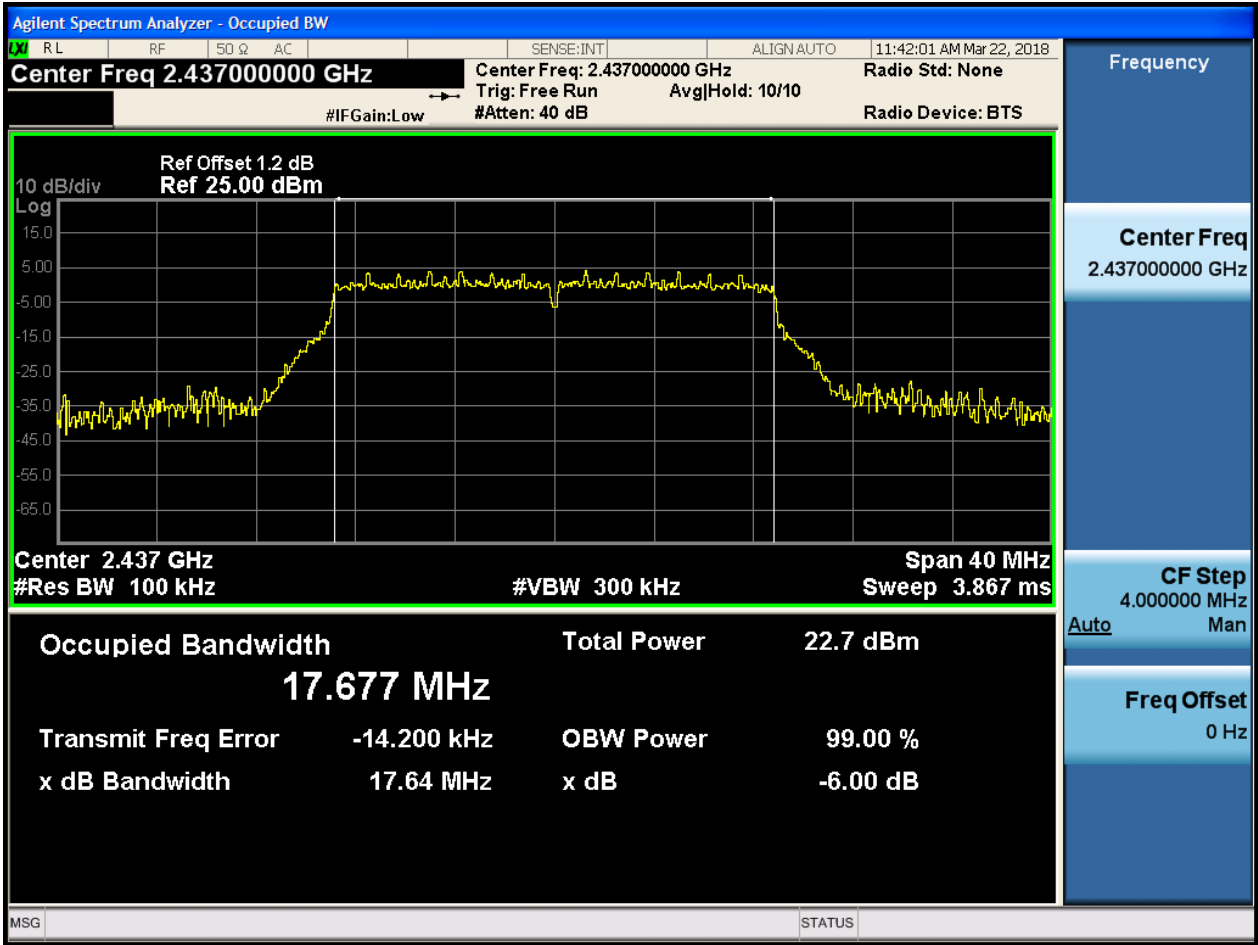


2.35 11N20m\_M@Ant 1



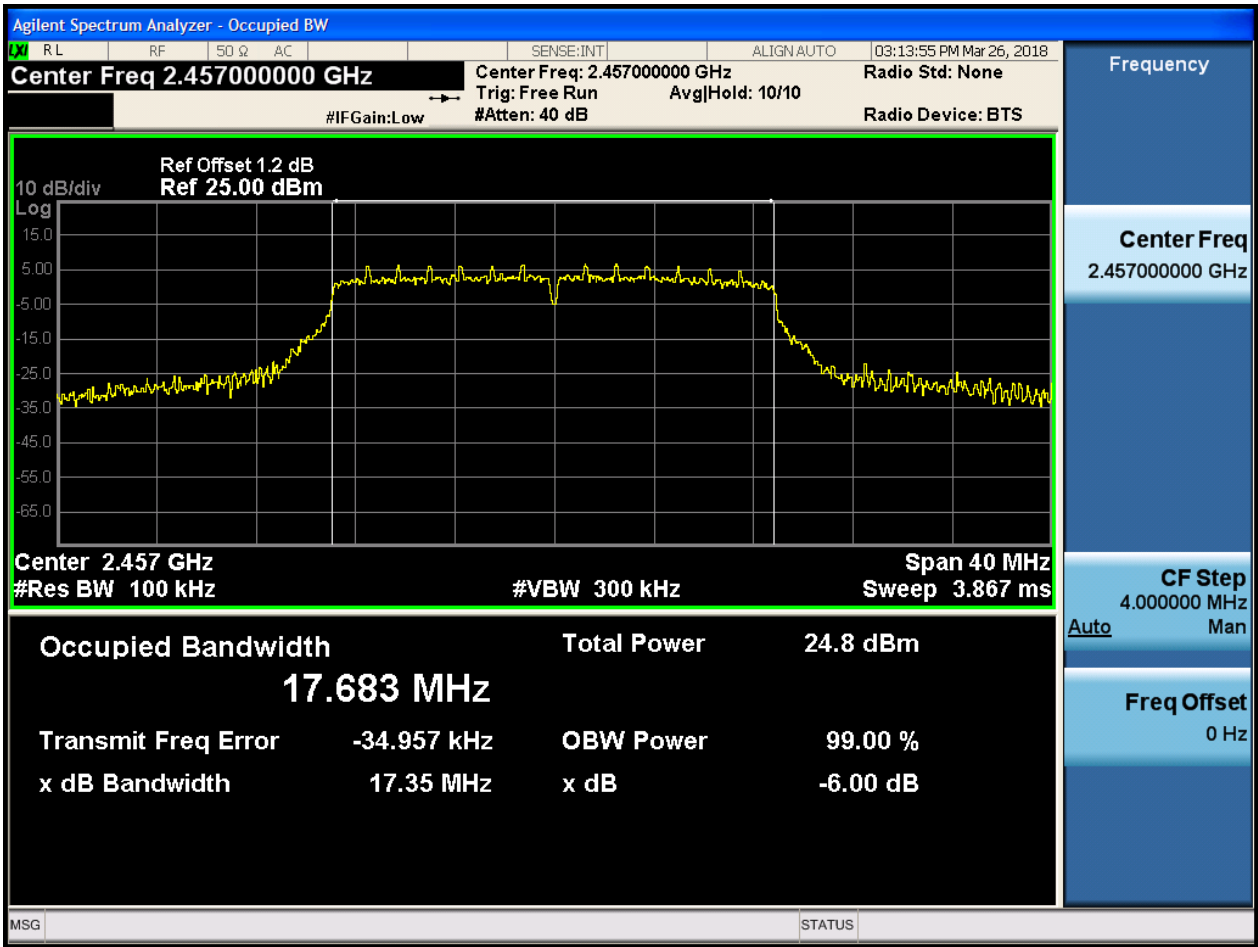


2.36 11N20m\_M@Ant 2





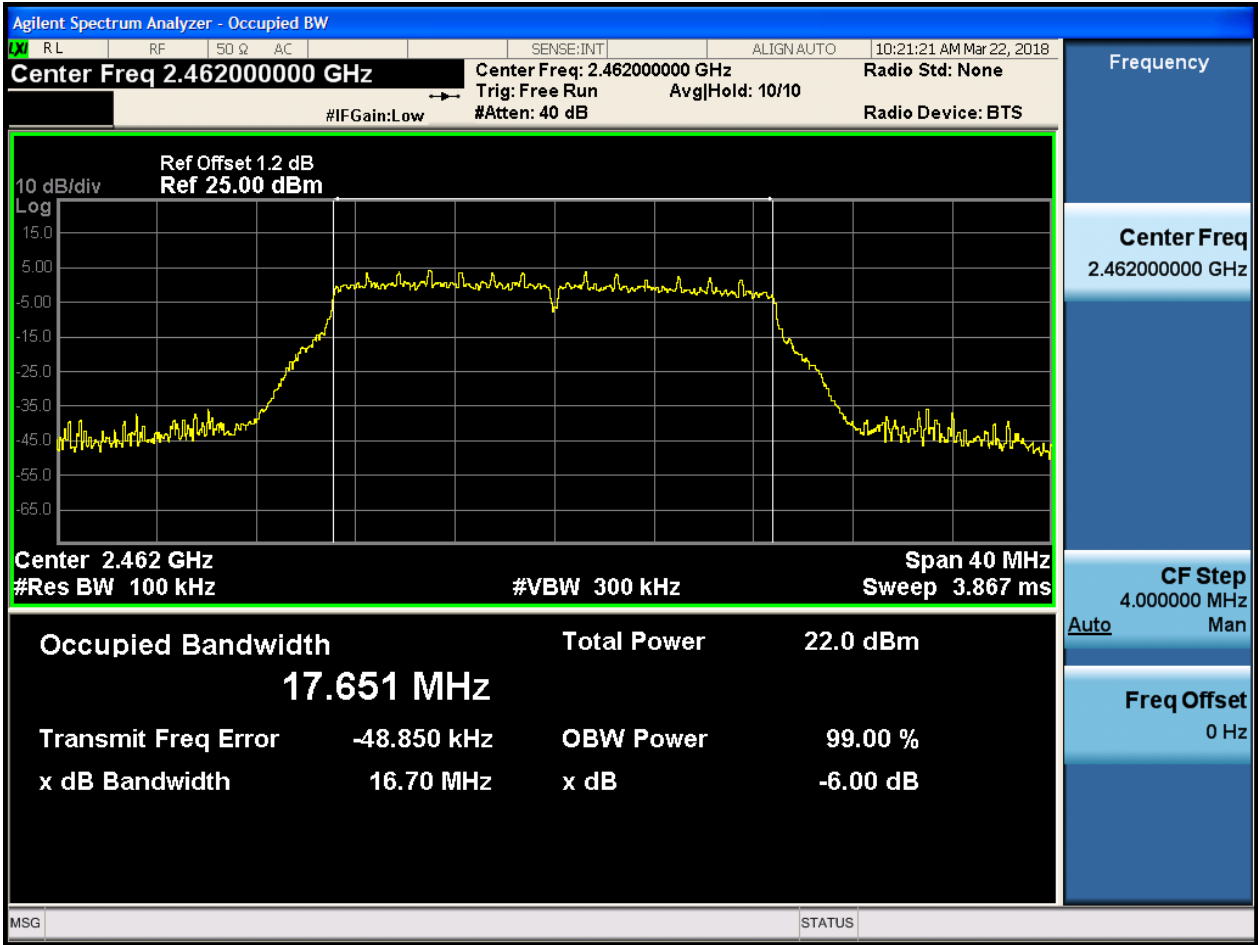
2.37 11N20m\_H\_2457@Ant 1





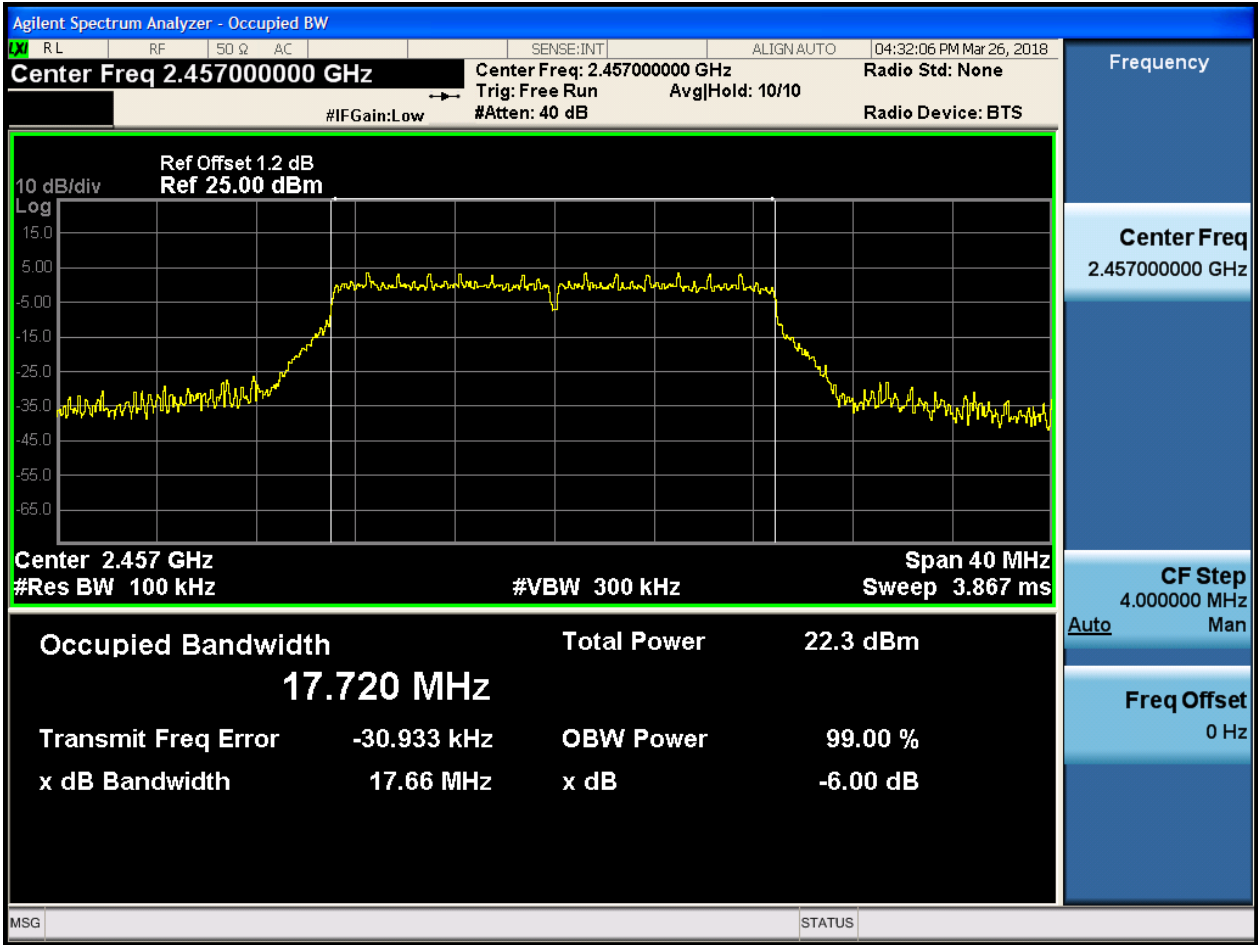


2.38 11N20m\_H\_2462@Ant 1



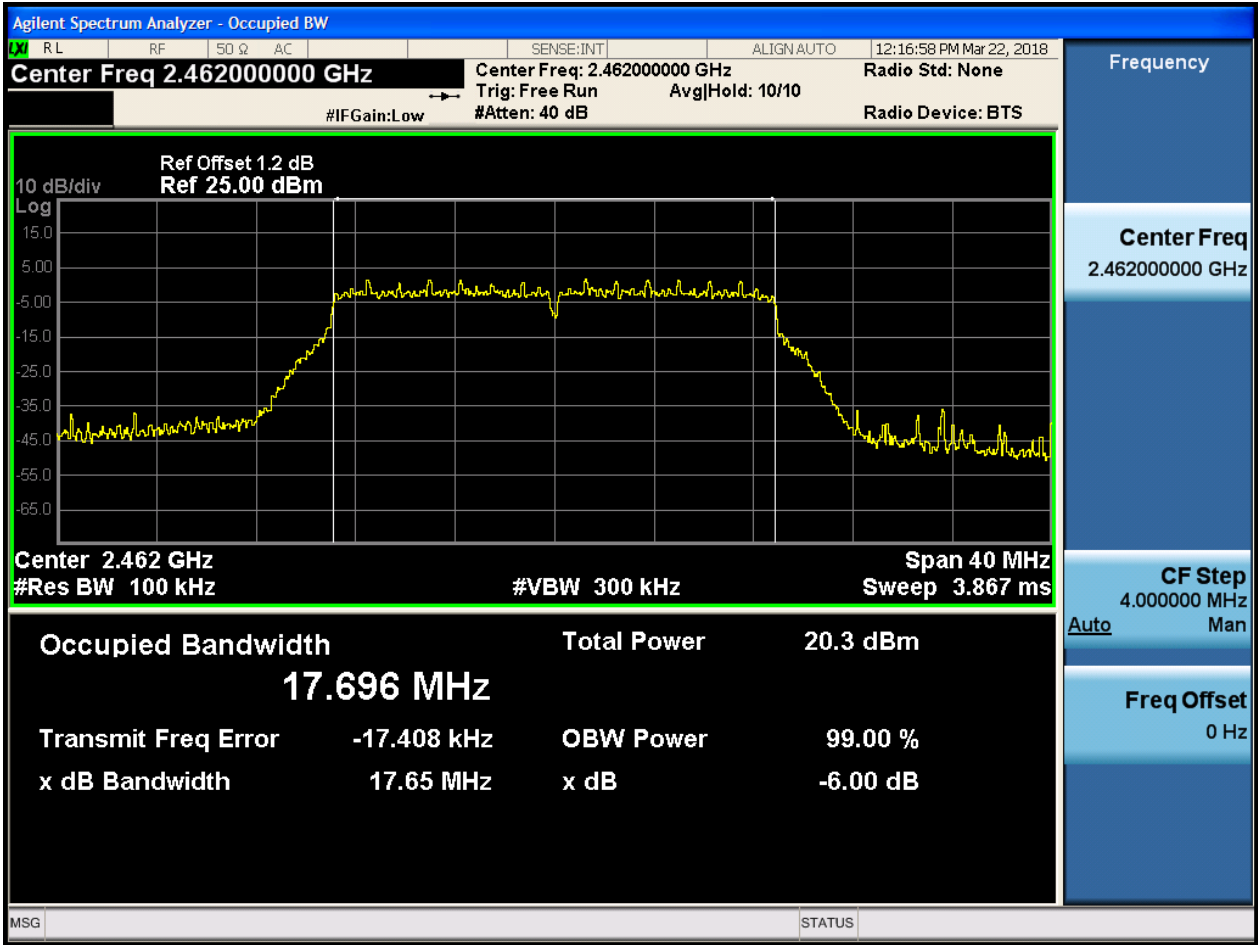


2.39 11N20m\_H\_2457@Ant 2



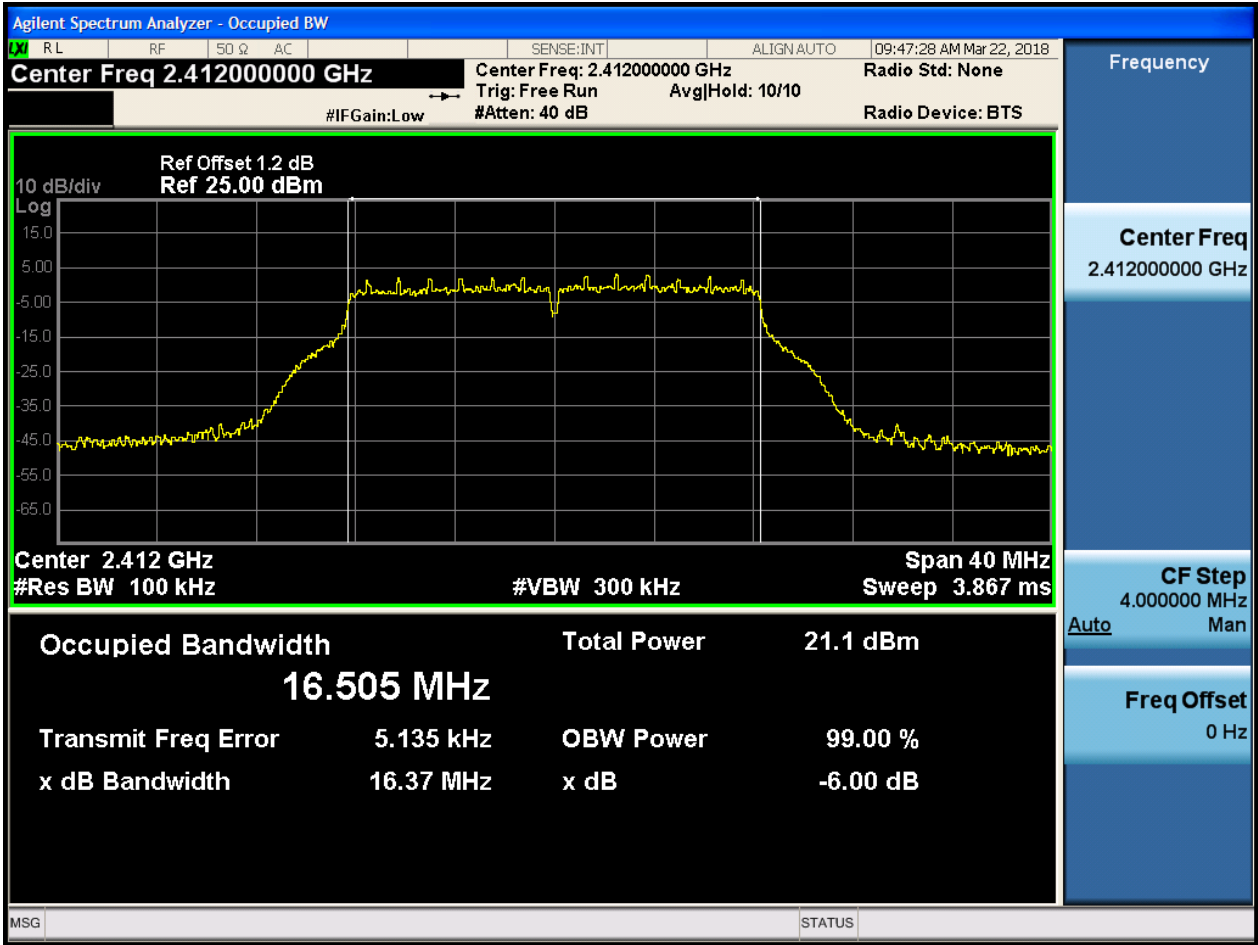


2.40 11N20m\_H\_2462@Ant 2



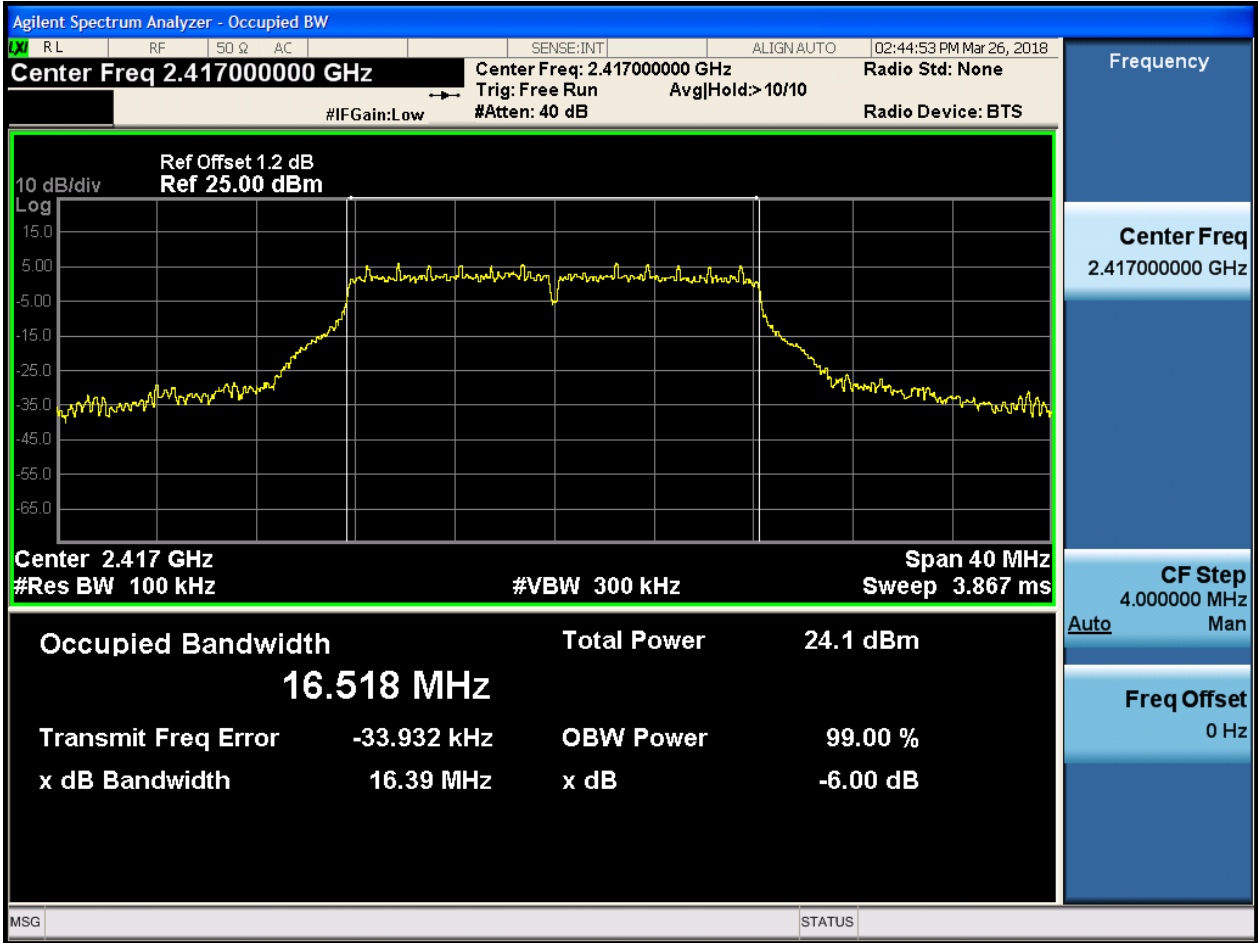


2.41 11G\_CDD\_L\_2412@Ant 1



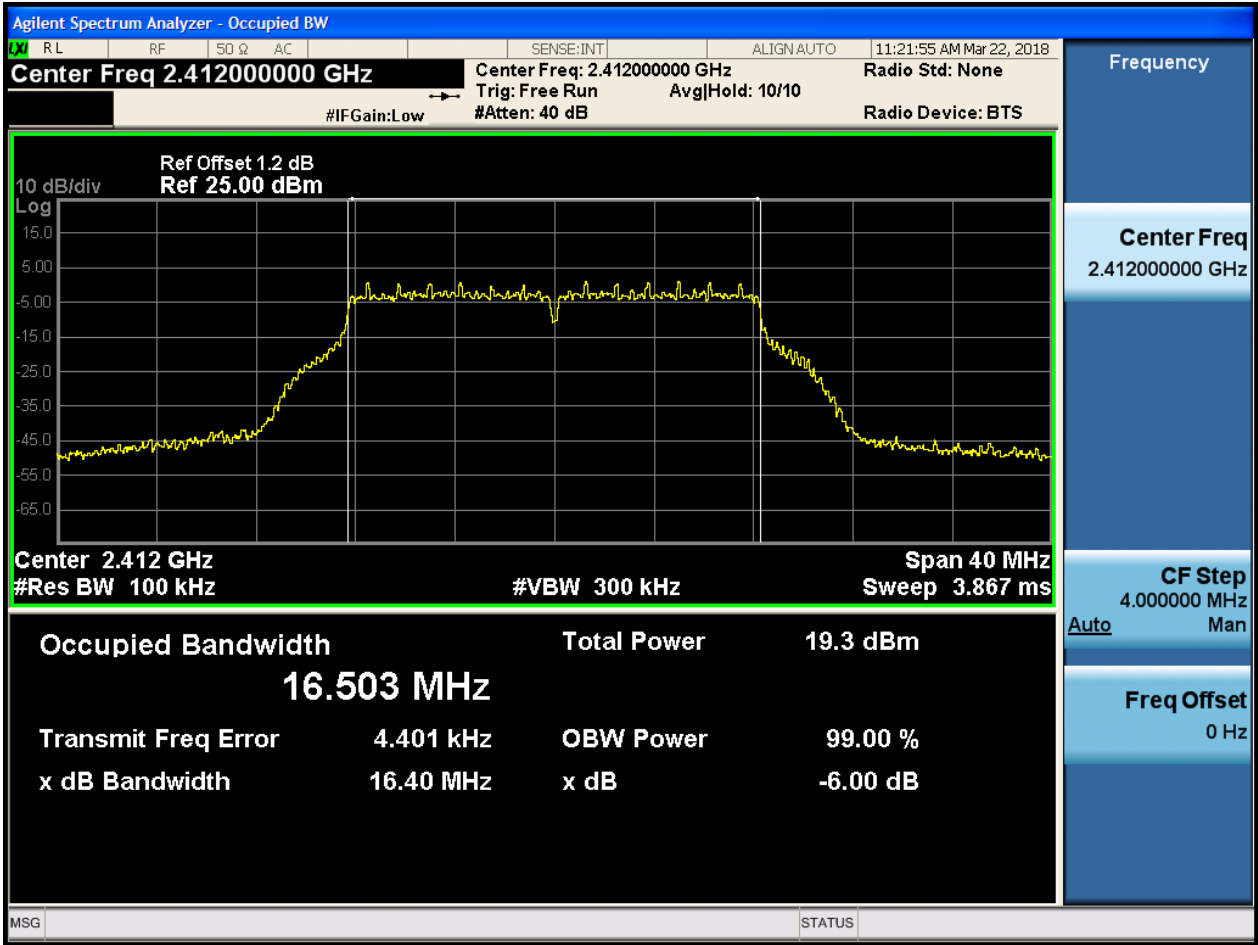


2.42 11G\_CDD\_L\_2417@Ant 1



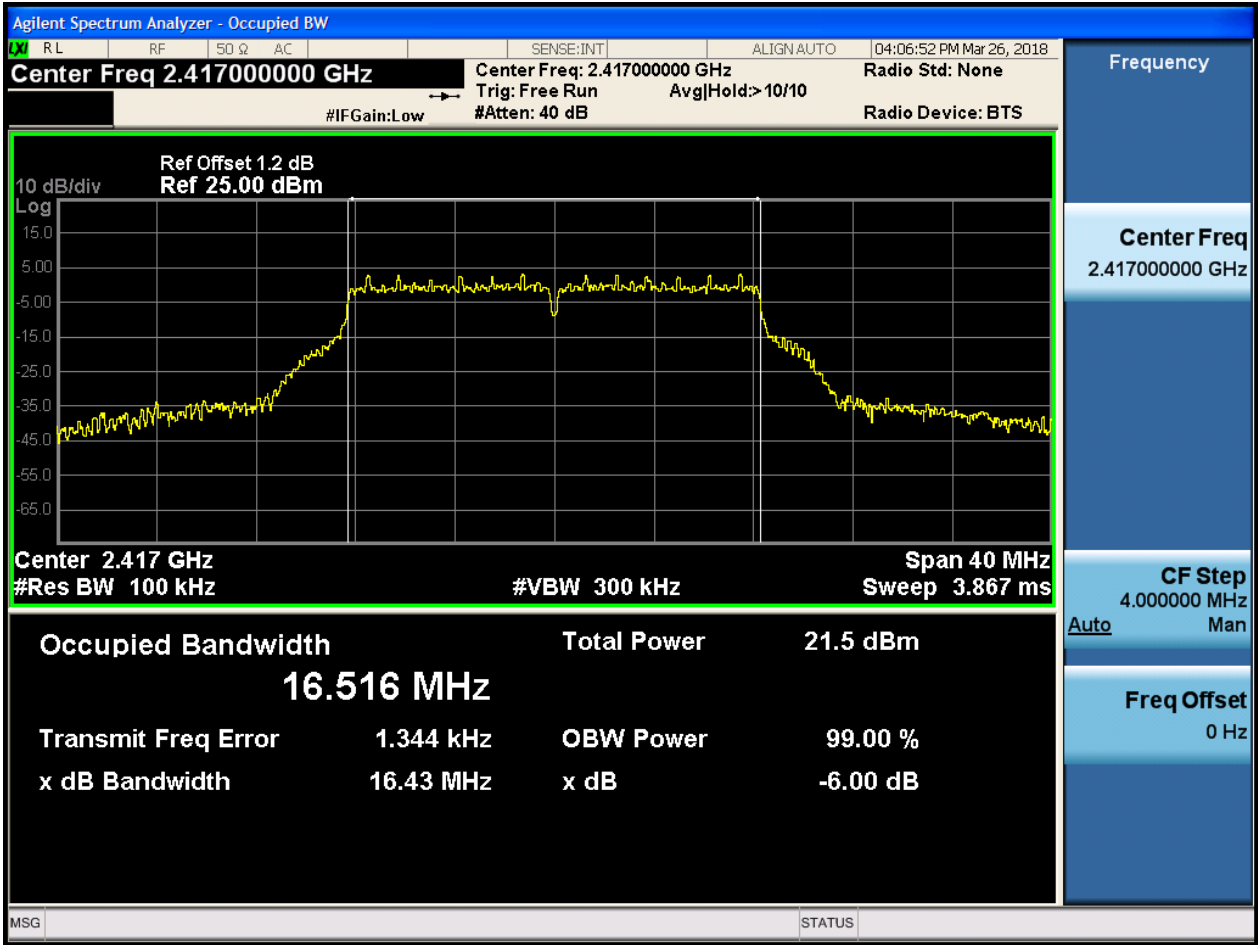


2.43 11G\_CDD\_L\_2412@Ant 2



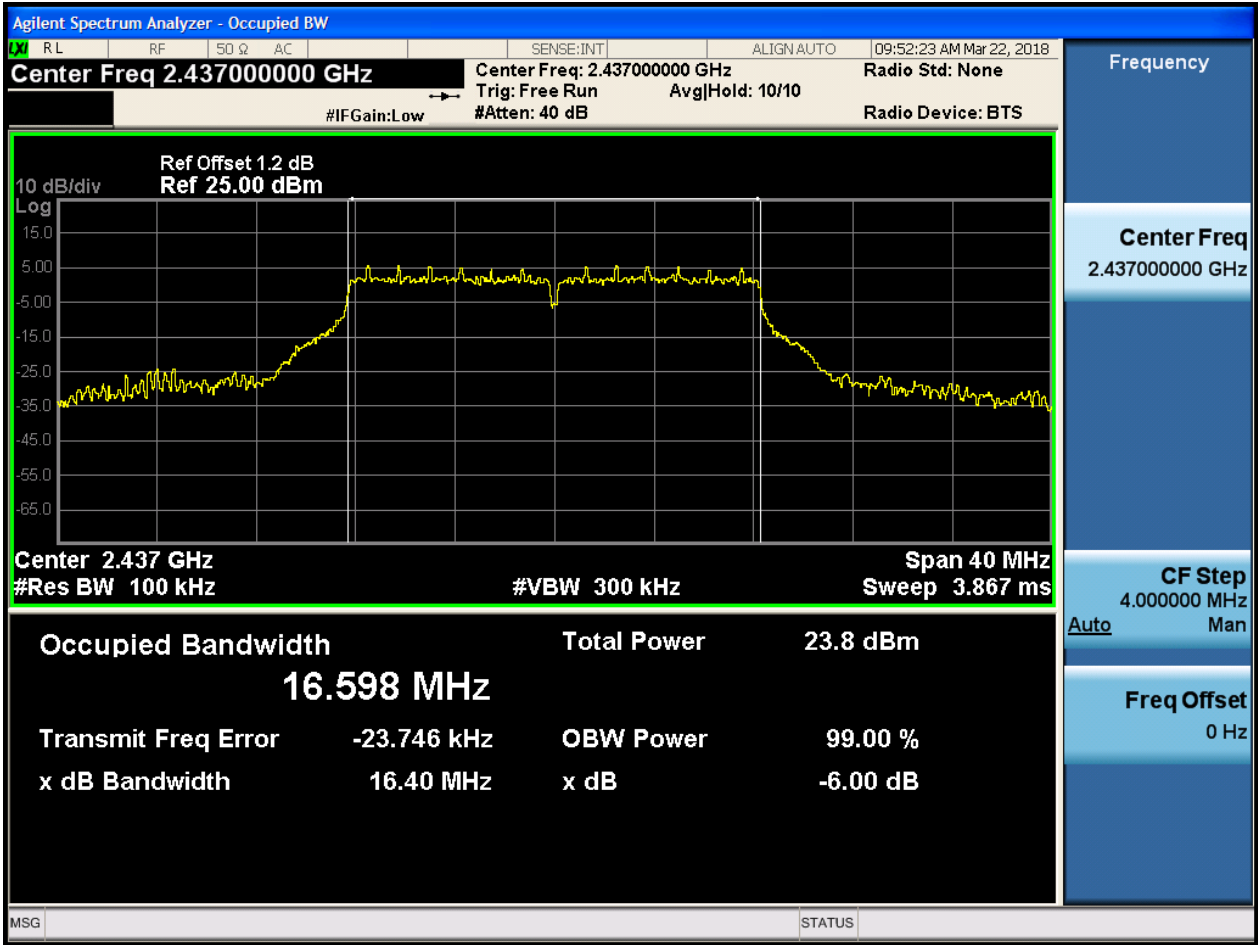


2.44 11G\_CDD\_L\_2417@Ant 2





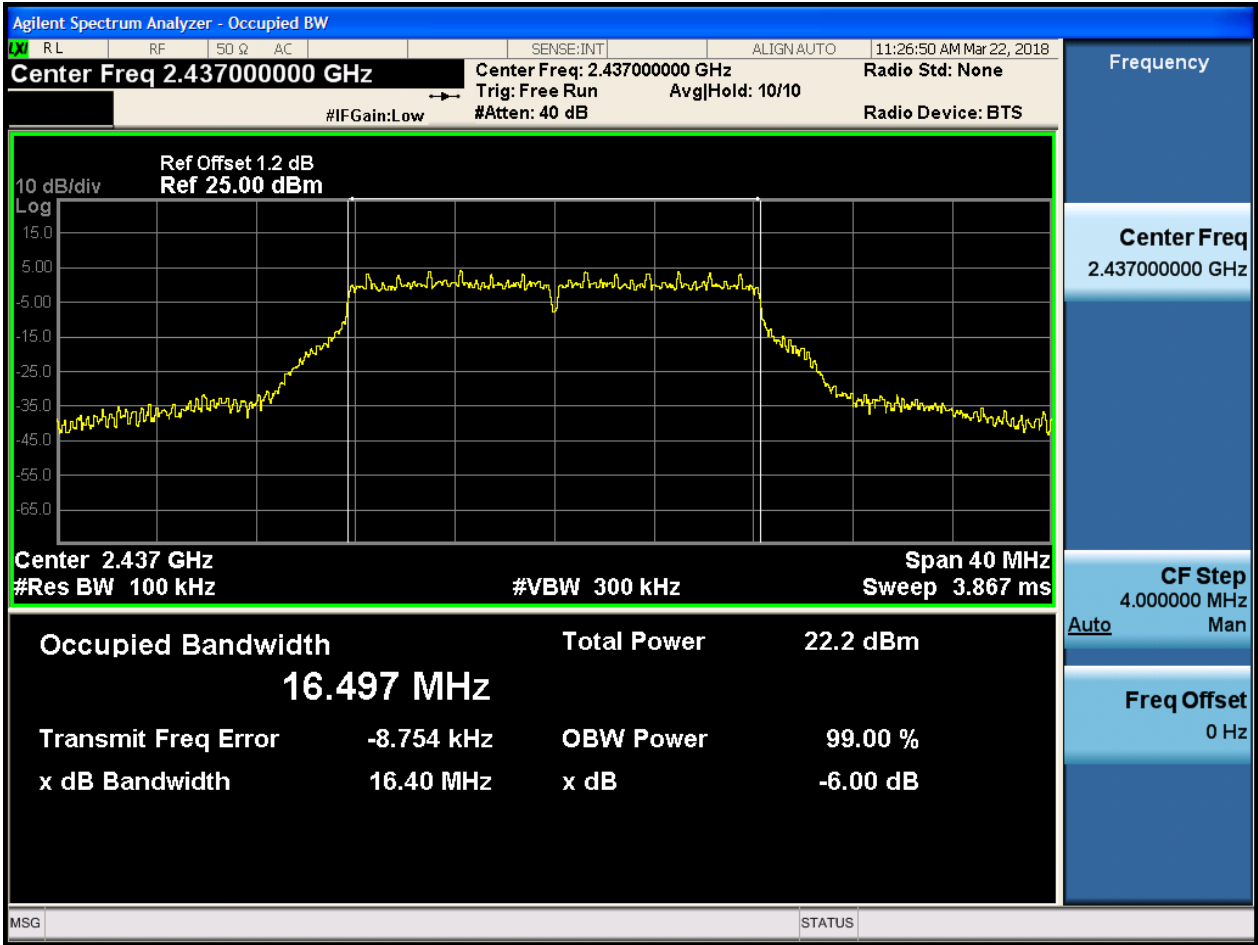
2.45 11G\_CDD\_M@Ant 1





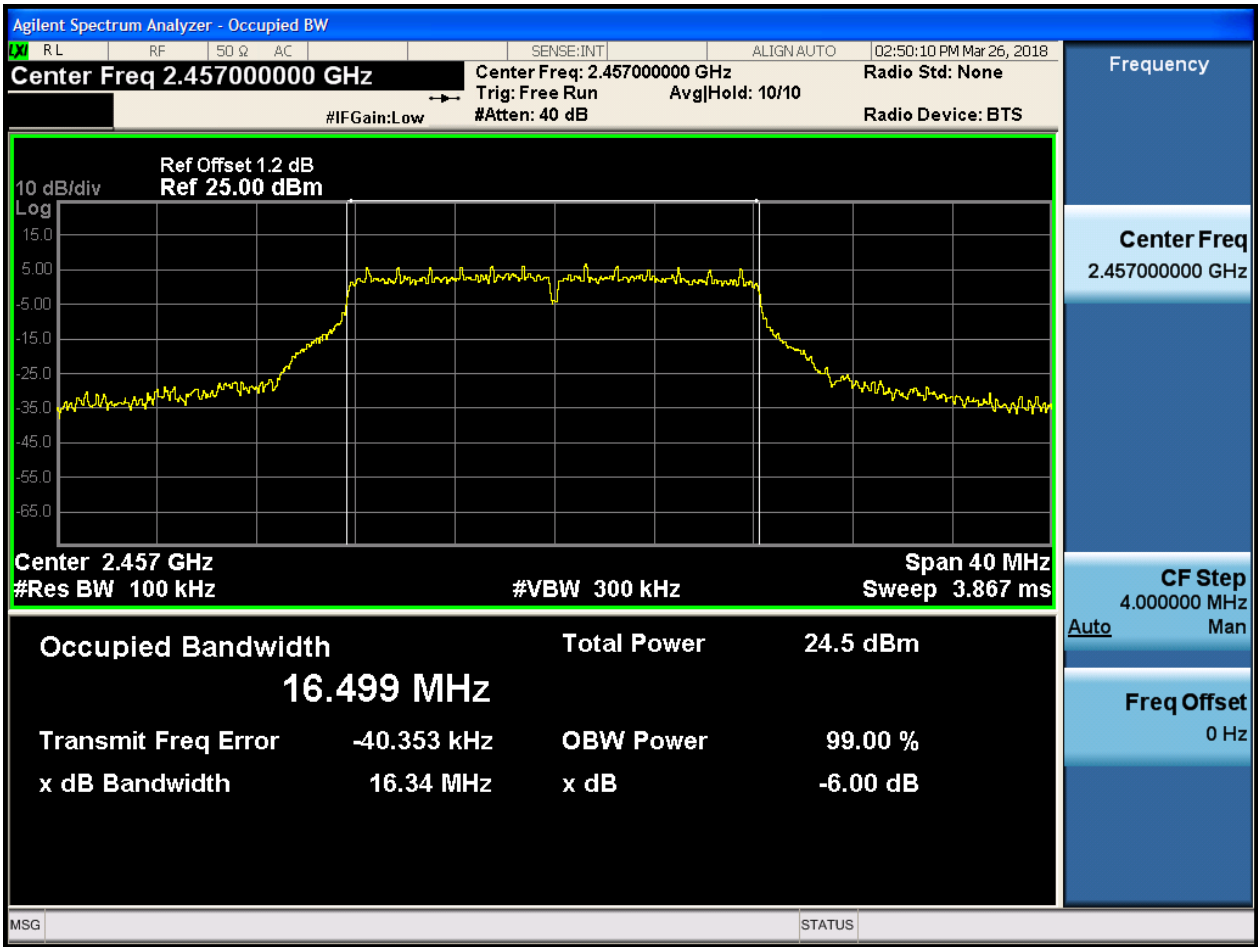


2.46 11G\_CDD\_M@Ant 2



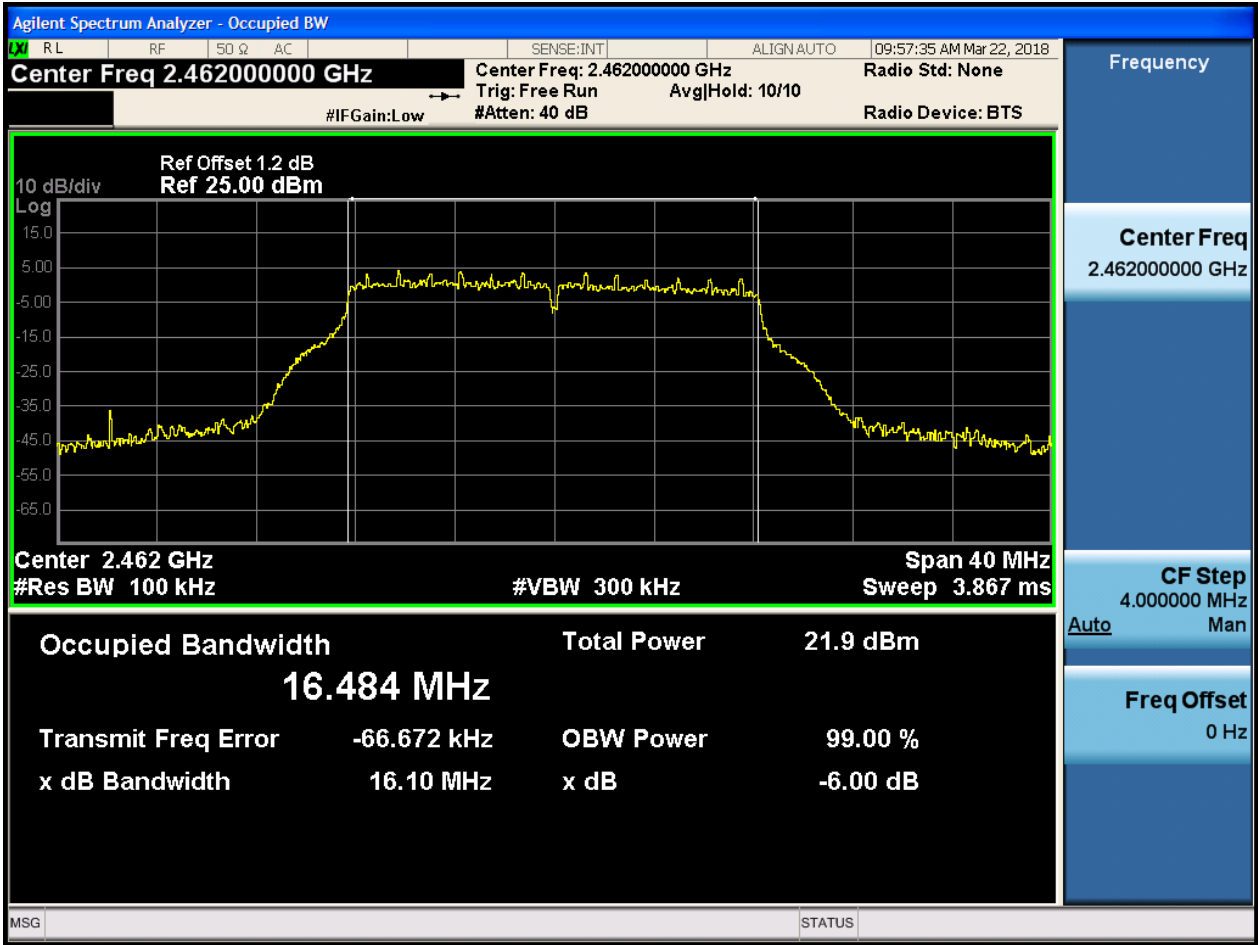


2.47 11G\_CDD\_H\_2457@Ant 1



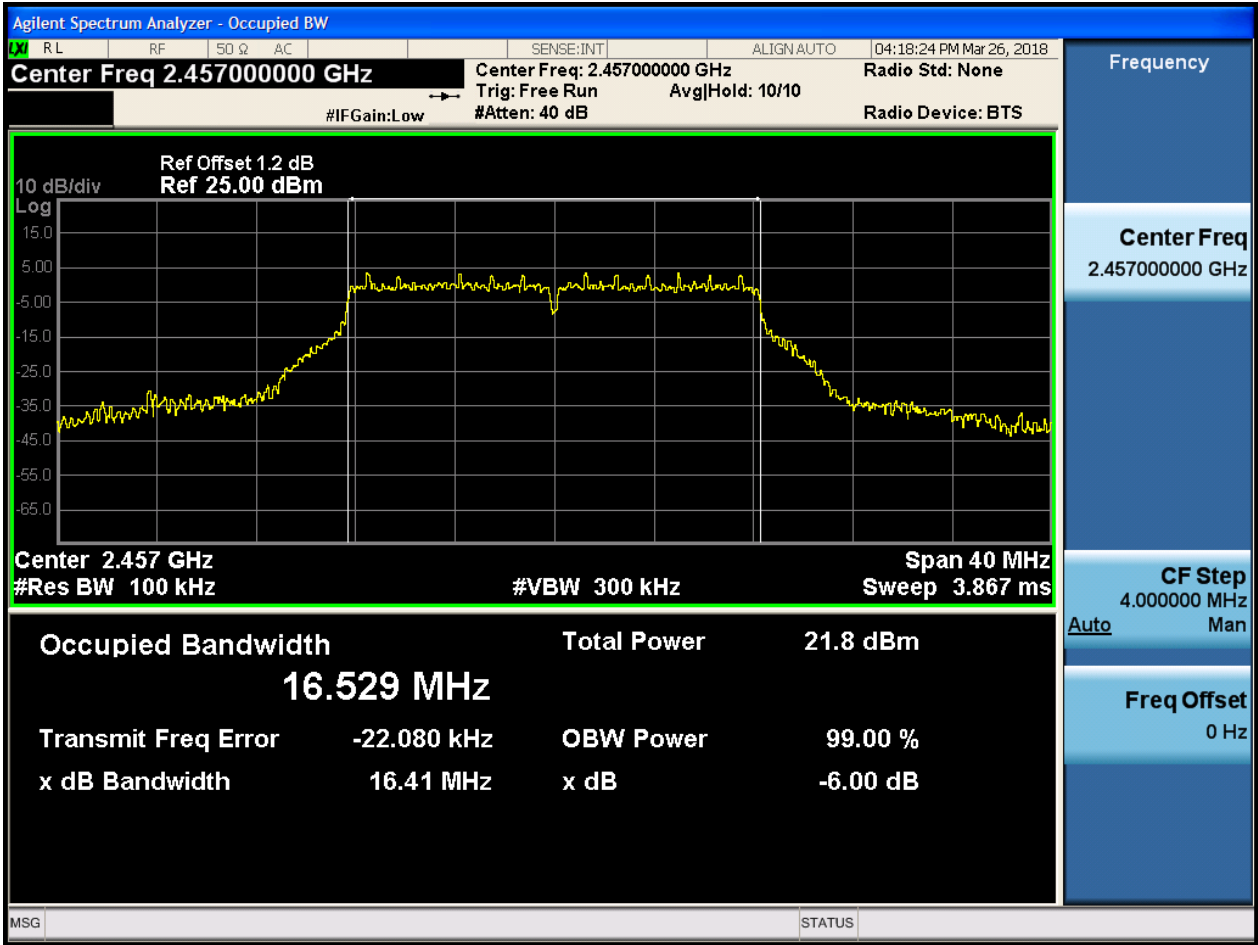


2.48 11G\_CDD\_H\_2462@Ant 1



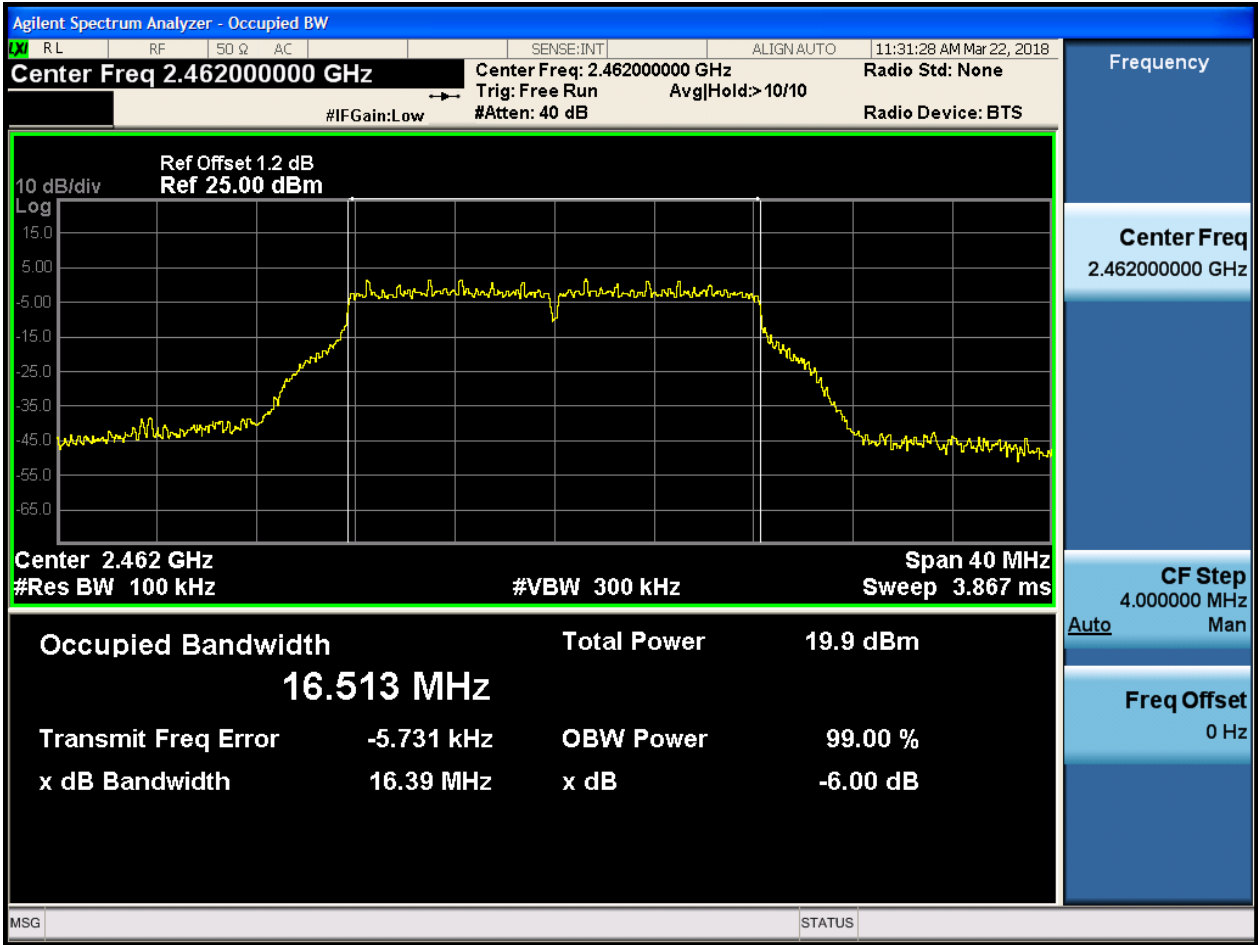


2.49 11G\_CDD\_H\_2457@Ant 2





2.50 11G\_CDD\_H\_2462@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	10.13	pass
11B	L	2417	Ant 1	10.22	pass
11B	L	2412	Ant 2	10.10	pass
11B	L	2417	Ant 2	10.14	pass
11B	M	2437	Ant 1	10.23	pass
11B	M	2437	Ant 2	10.13	pass
11B	H	2457	Ant 1	10.17	pass
11B	H	2462	Ant 1	10.12	pass
11B	H	2457	Ant 2	10.15	pass
11B	H	2462	Ant 2	10.09	pass
11G	L	2412	Ant 1	16.71	pass
11G	L	2417	Ant 1	16.75	pass
11G	L	2412	Ant 2	16.72	pass
11G	L	2417	Ant 2	16.74	pass
11G	M	2437	Ant 1	16.91	pass
11G	M	2437	Ant 2	16.74	pass
11G	H	2457	Ant 1	16.70	pass
11G	H	2462	Ant 1	16.68	pass
11G	H	2457	Ant 2	16.78	pass
11G	H	2462	Ant 2	16.73	pass
11N20	L	2412	Ant 1	17.87	pass
11N20	L	2417	Ant 1	17.88	pass
11N20	L	2412	Ant 2	17.89	pass
11N20	L	2417	Ant 2	17.93	pass
11N20	M	2437	Ant 1	18.04	pass
11N20	M	2437	Ant 2	17.87	pass
11N20	H	2457	Ant 1	17.85	pass
11N20	H	2462	Ant 1	17.80	pass
11N20	H	2457	Ant 2	17.99	pass
11N20	H	2462	Ant 2	17.87	pass
11N20m	L	2412	Ant 1	17.84	pass
11N20m	L	2417	Ant 1	17.88	pass

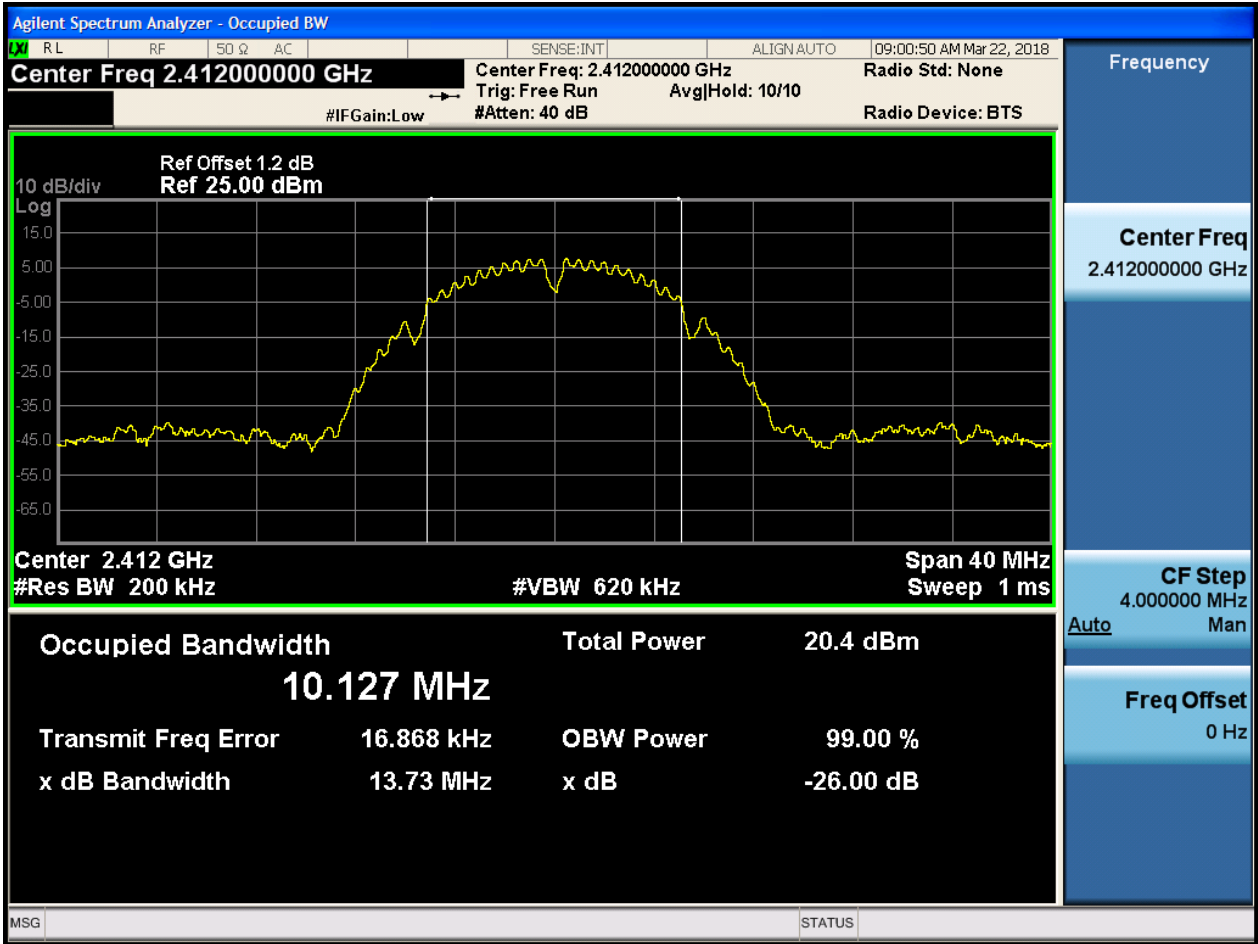


Test Mode	Test Channel	Frequency[MHz]	Ant	Occupied Bandwidth [MHz]	Verdict
11N20m	L	2412	Ant 2	17.82	pass
11N20m	L	2417	Ant 2	17.86	pass
11N20m	M	2437	Ant 1	18.01	pass
11N20m	M	2437	Ant 2	17.81	pass
11N20m	H	2457	Ant 1	17.88	pass
11N20m	H	2462	Ant 1	17.81	pass
11N20m	H	2457	Ant 2	17.90	pass
11N20m	H	2462	Ant 2	17.83	pass
11G CDD	L	2412	Ant 1	16.70	pass
11G CDD	L	2417	Ant 1	16.76	pass
11G CDD	L	2412	Ant 2	16.72	pass
11G CDD	L	2417	Ant 2	16.83	pass
11G CDD	M	2437	Ant 1	16.93	pass
11G CDD	M	2437	Ant 2	16.69	pass
11G CDD	H	2457	Ant 1	16.72	pass
11G CDD	H	2462	Ant 1	16.67	pass
11G CDD	H	2457	Ant 2	16.76	pass
11G CDD	H	2462	Ant 2	16.73	pass



Part II - Test Plots

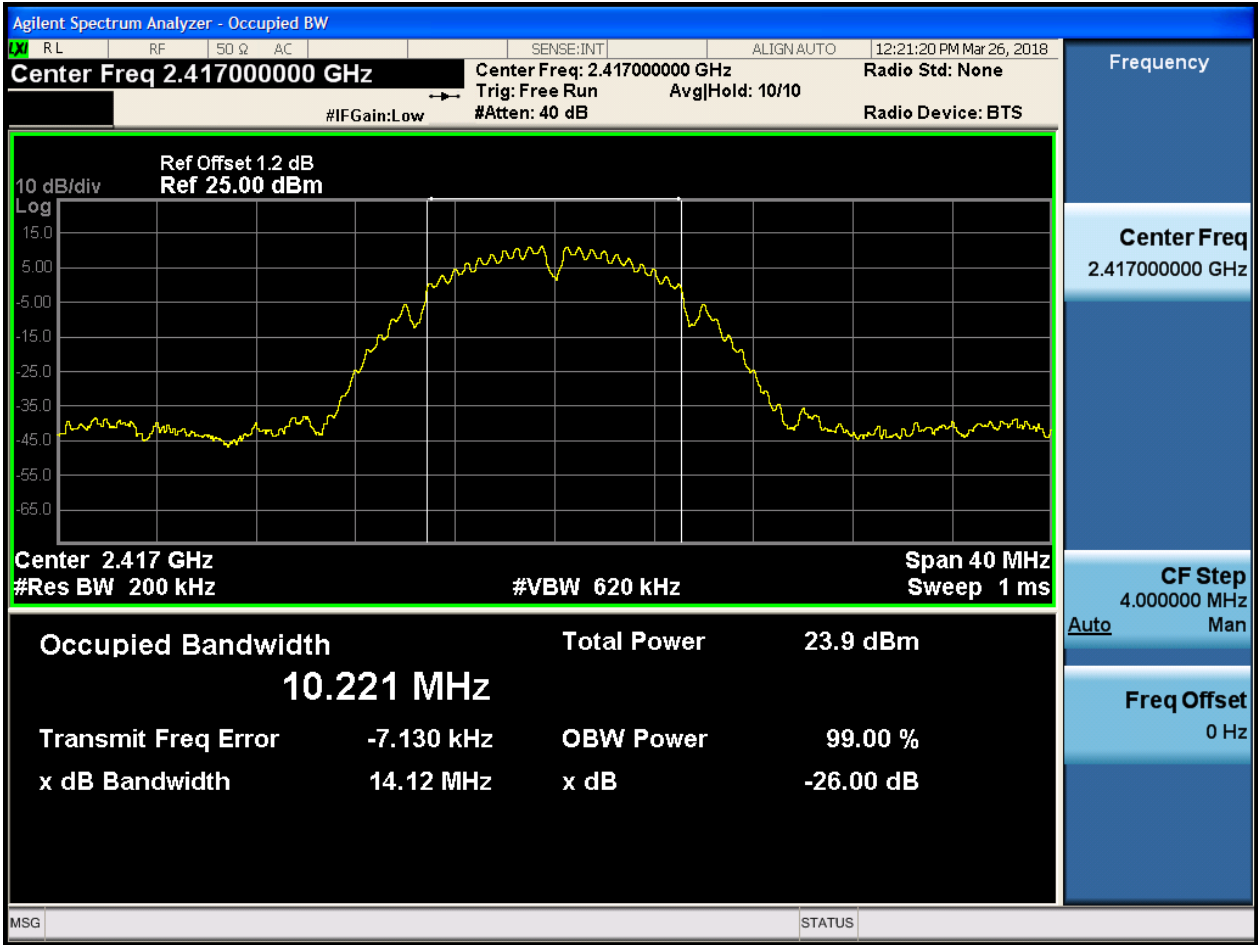
2.1 11B\_L\_2412@Ant 1





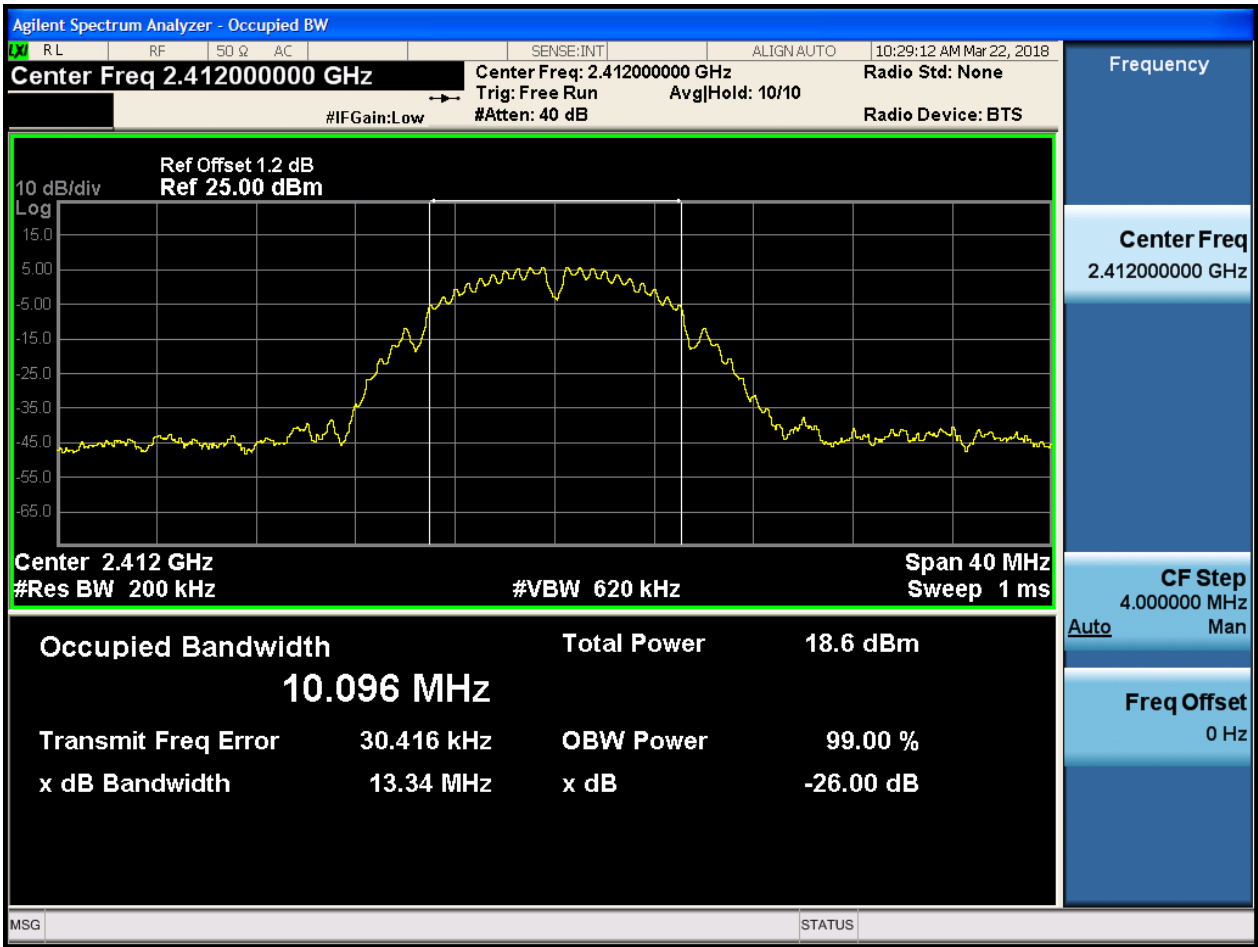


2.2 11B\_L\_2417@Ant 1



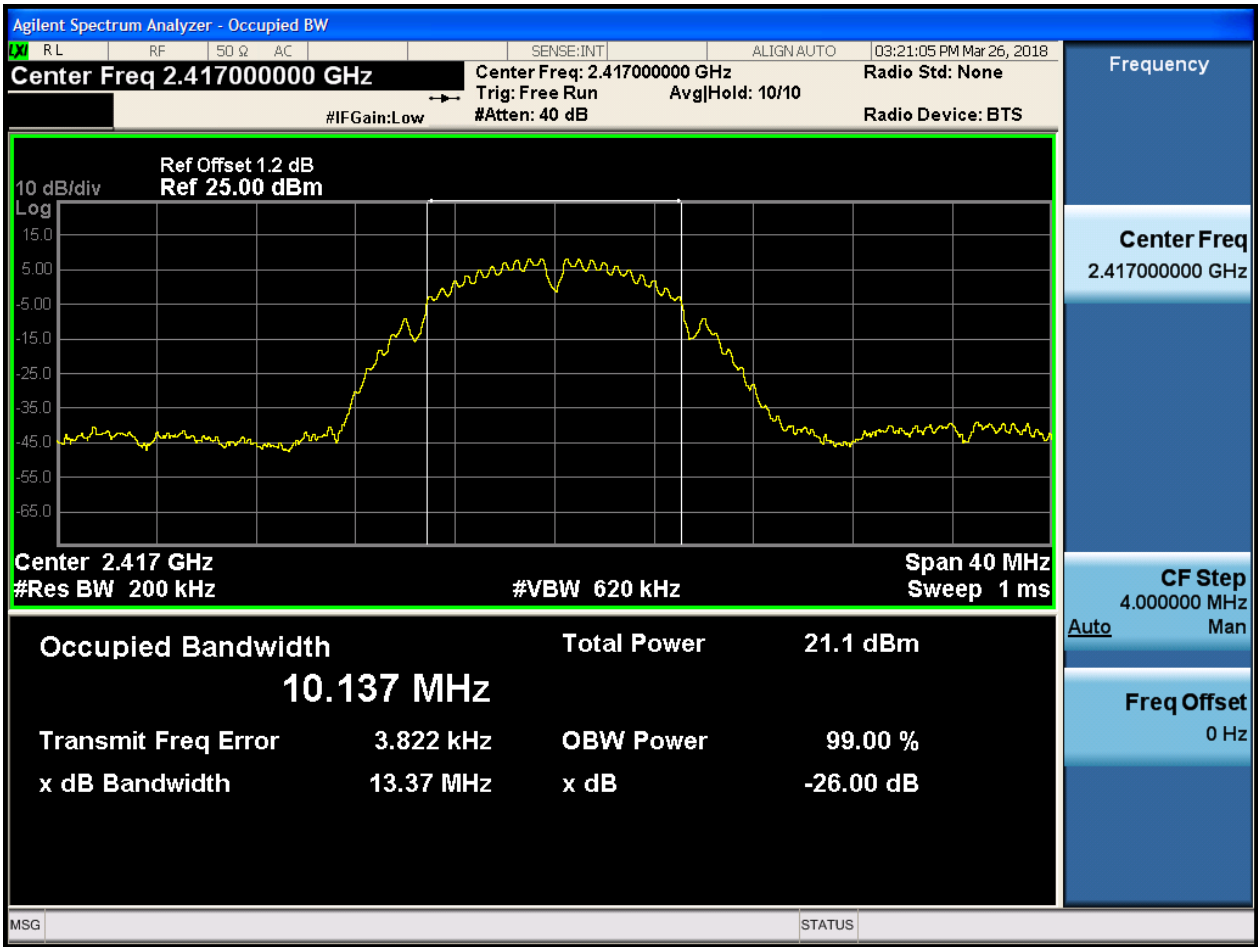


2.3 11B\_L\_2412@Ant 2



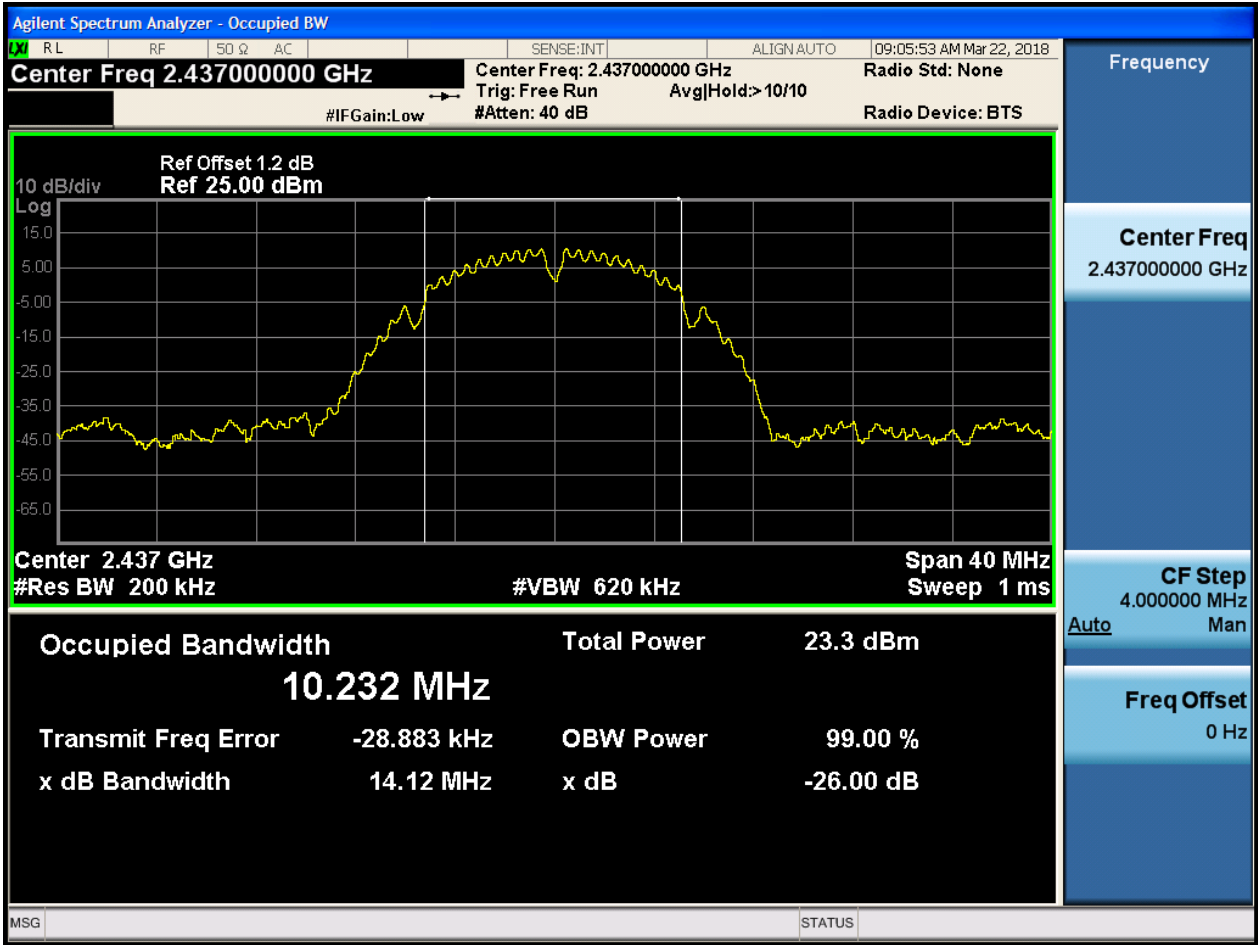


2.4 11B\_L\_2417@Ant 2



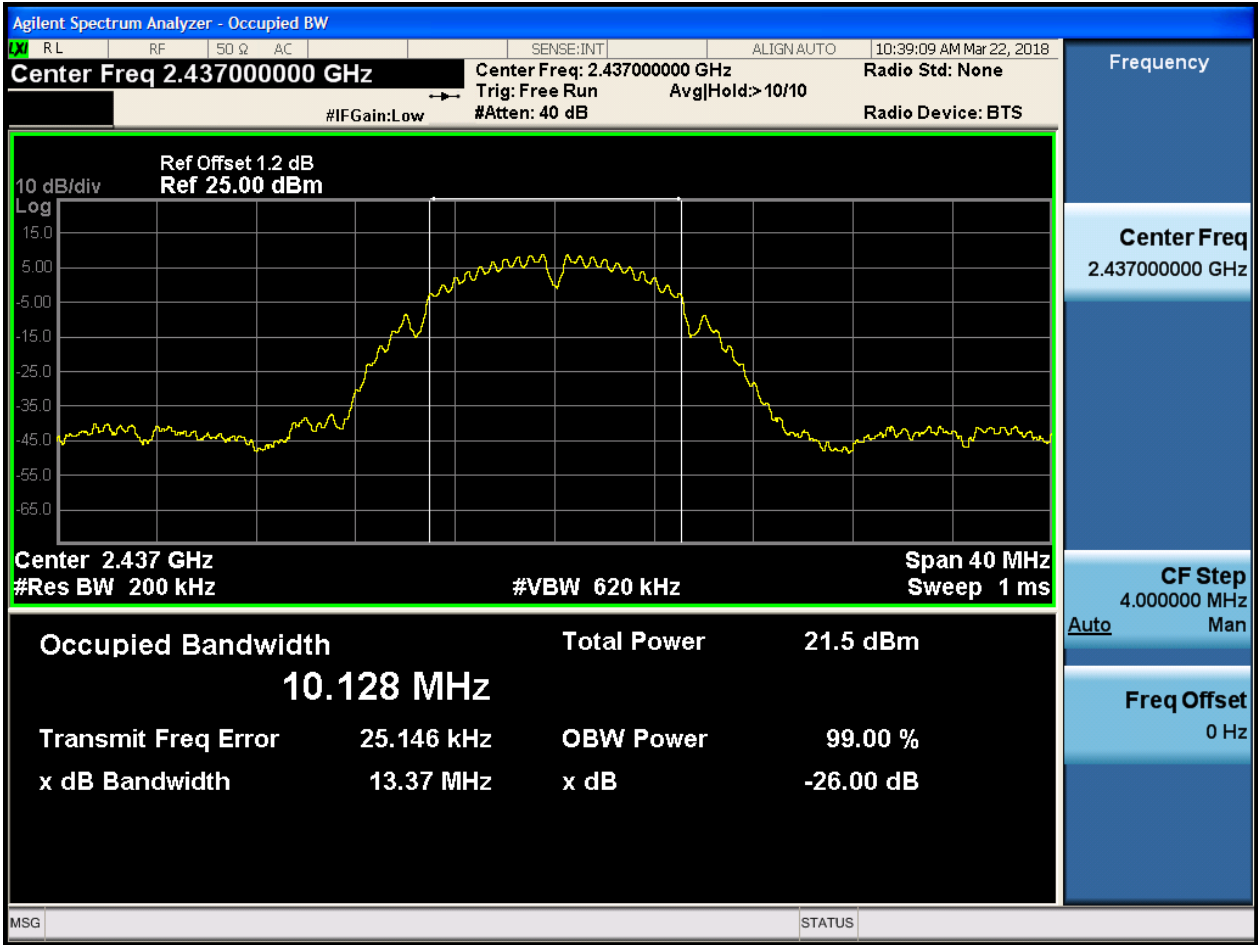


2.5 11B\_M@Ant 1



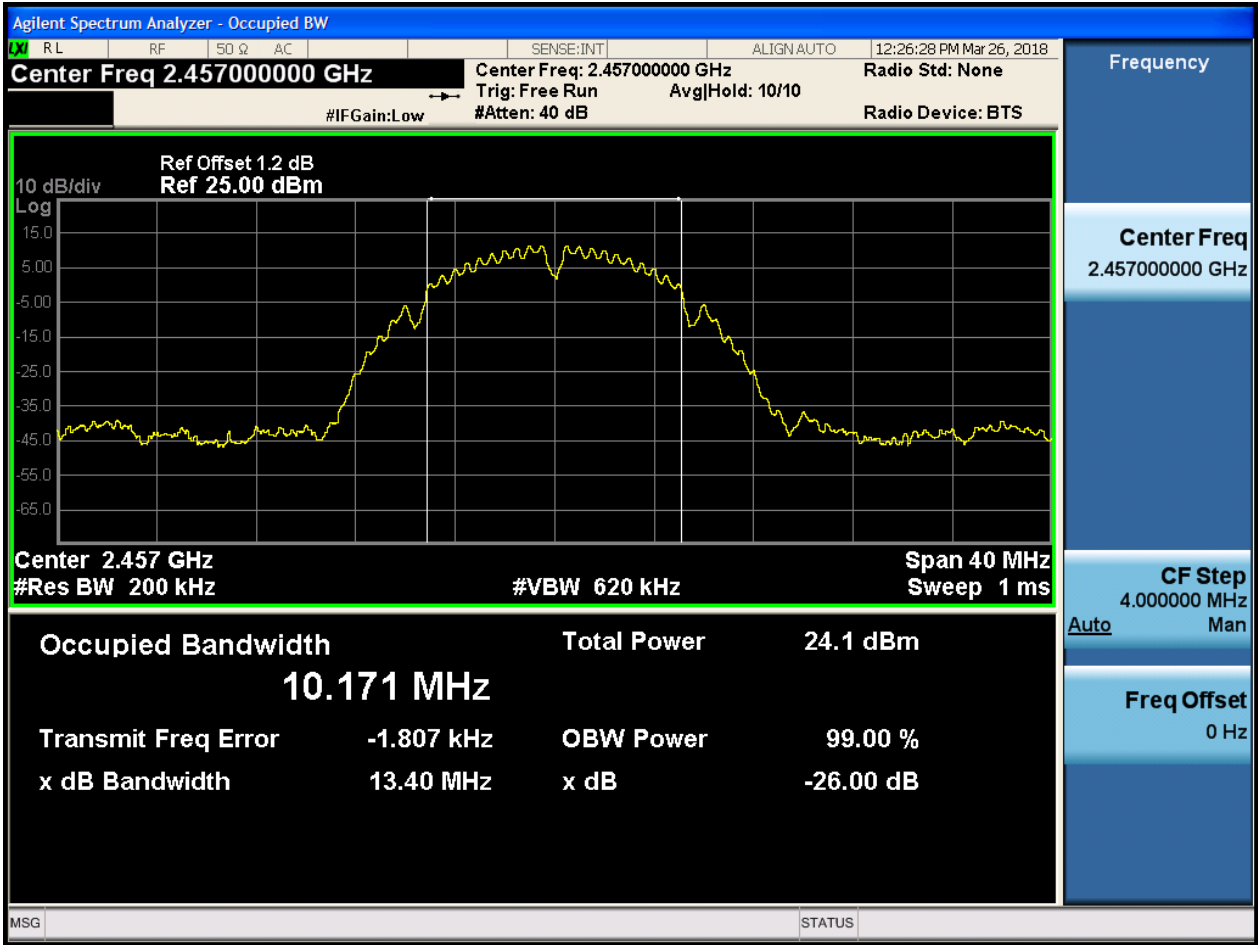


2.6 11B\_M@Ant 2



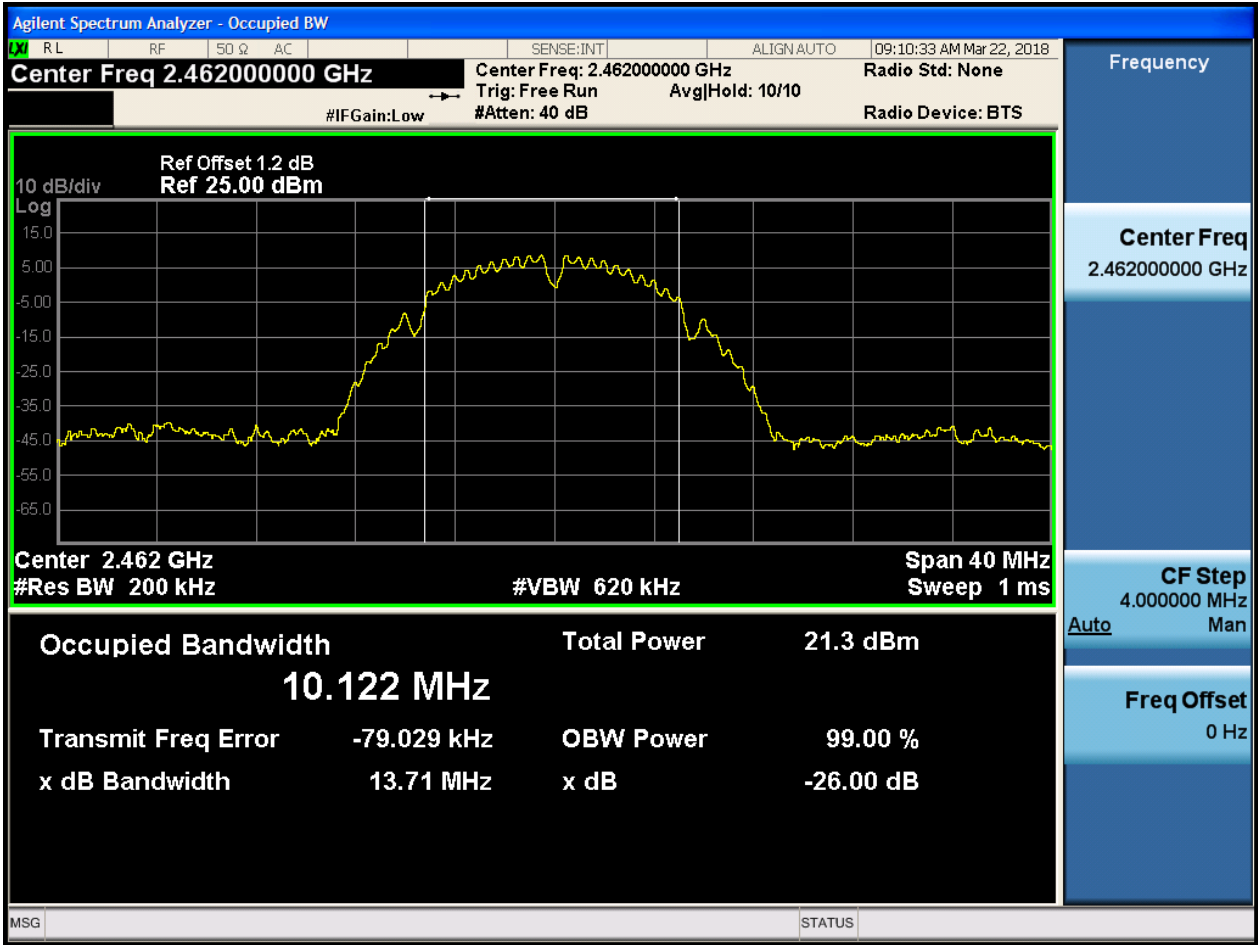


2.7 11B\_H\_2457@Ant 1



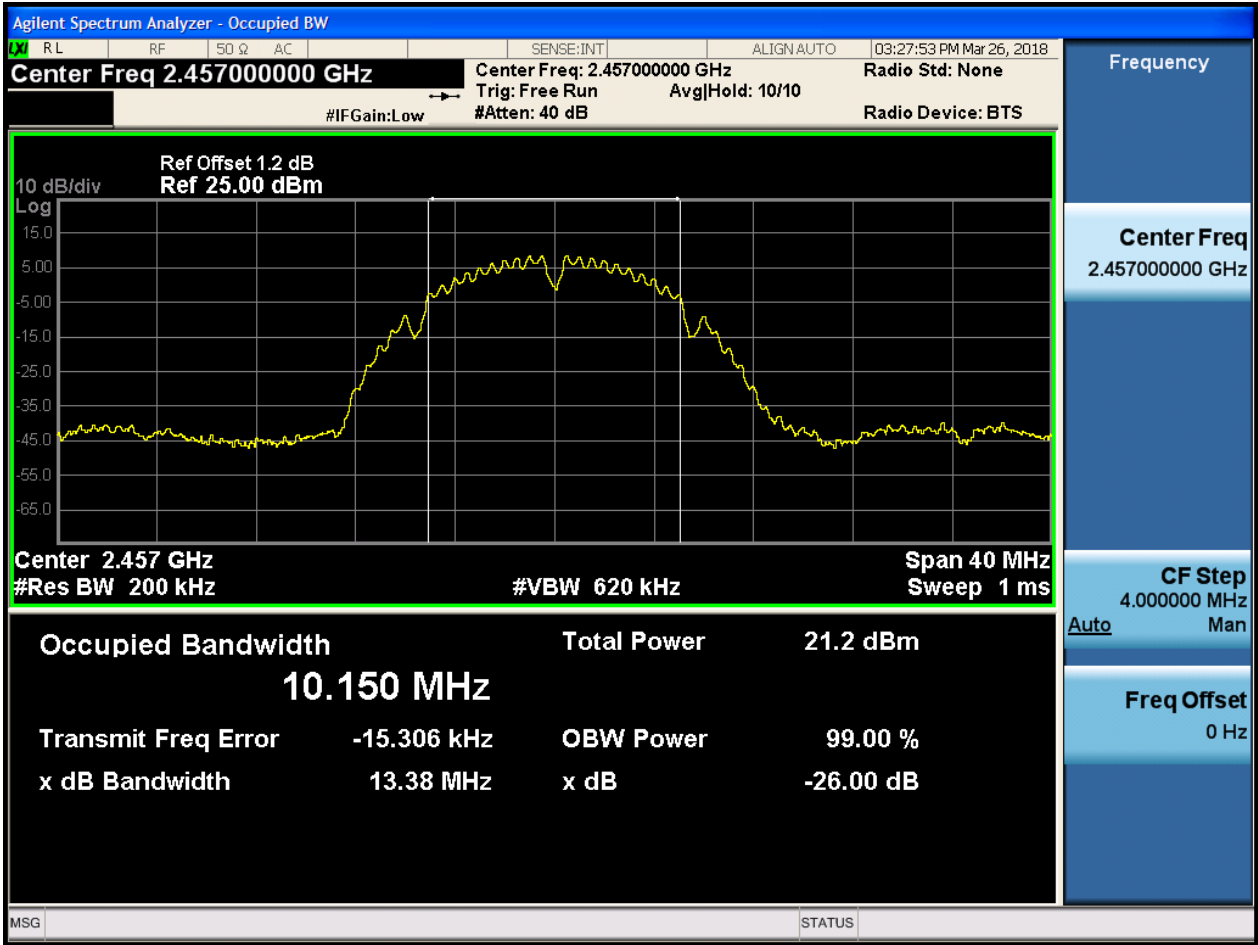


2.8 11B\_H\_2462@Ant 1





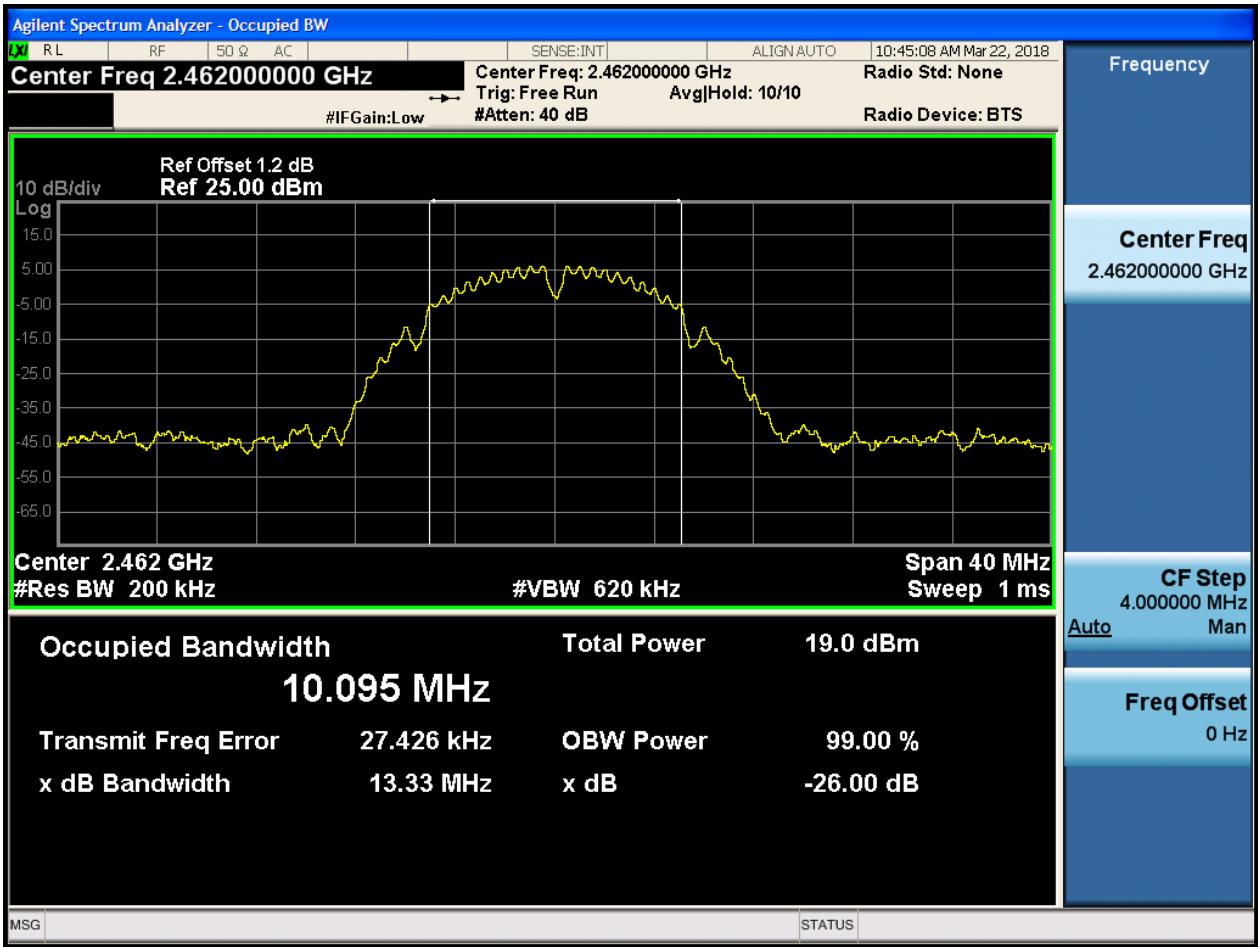
2.9 11B\_H\_2457@Ant 2





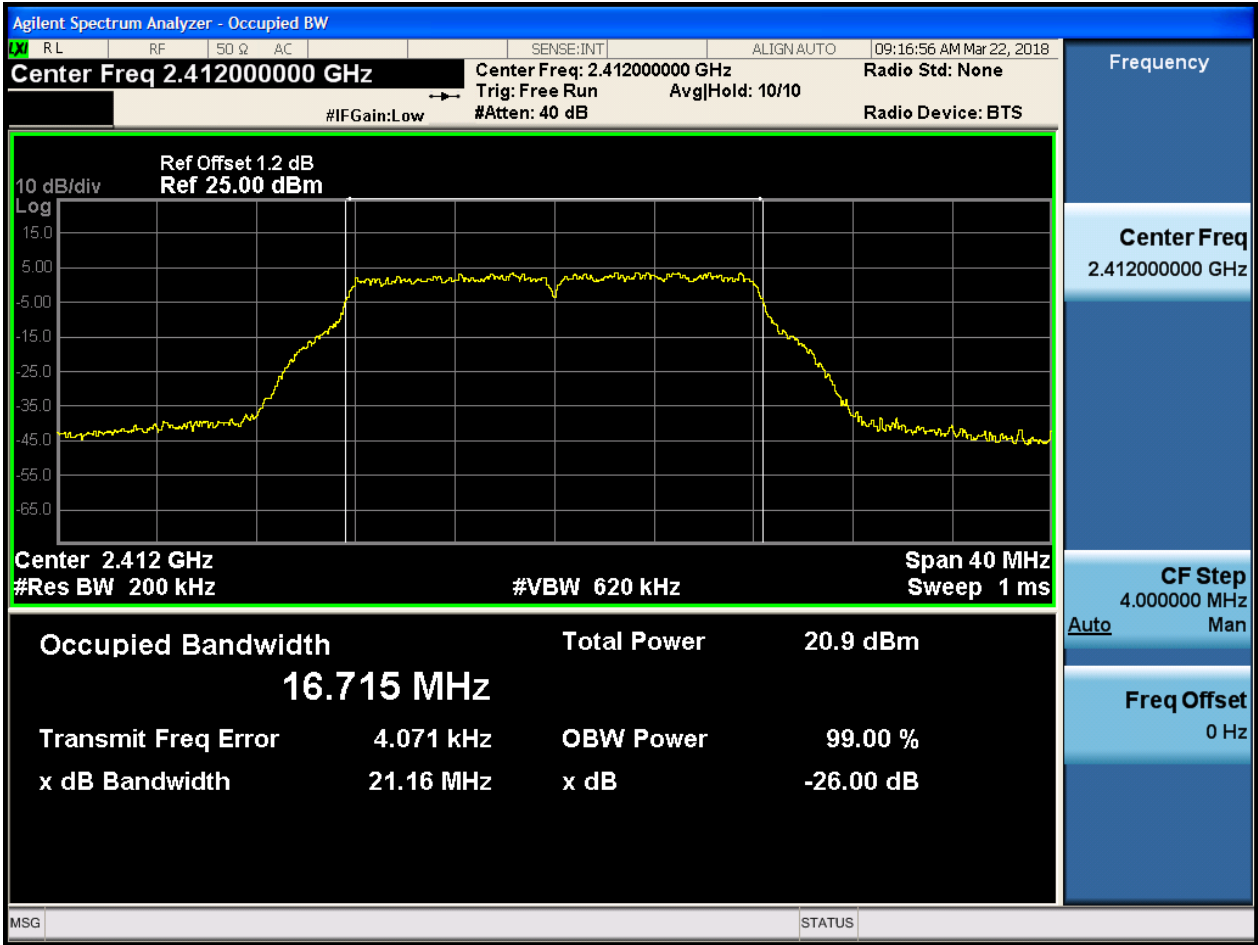


2.10 11B\_H\_2462@Ant 2



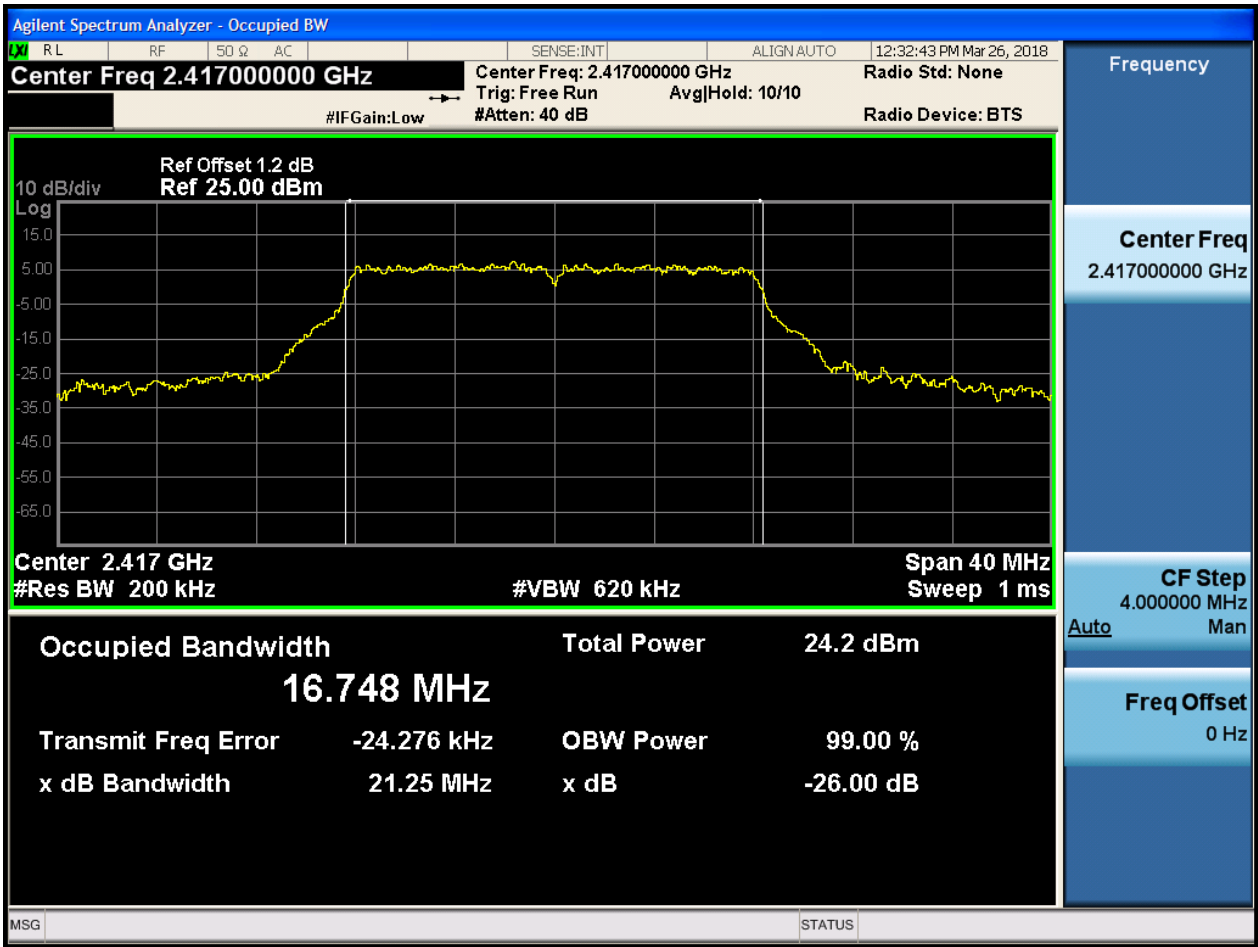


2.11 11G\_L\_2412@Ant 1



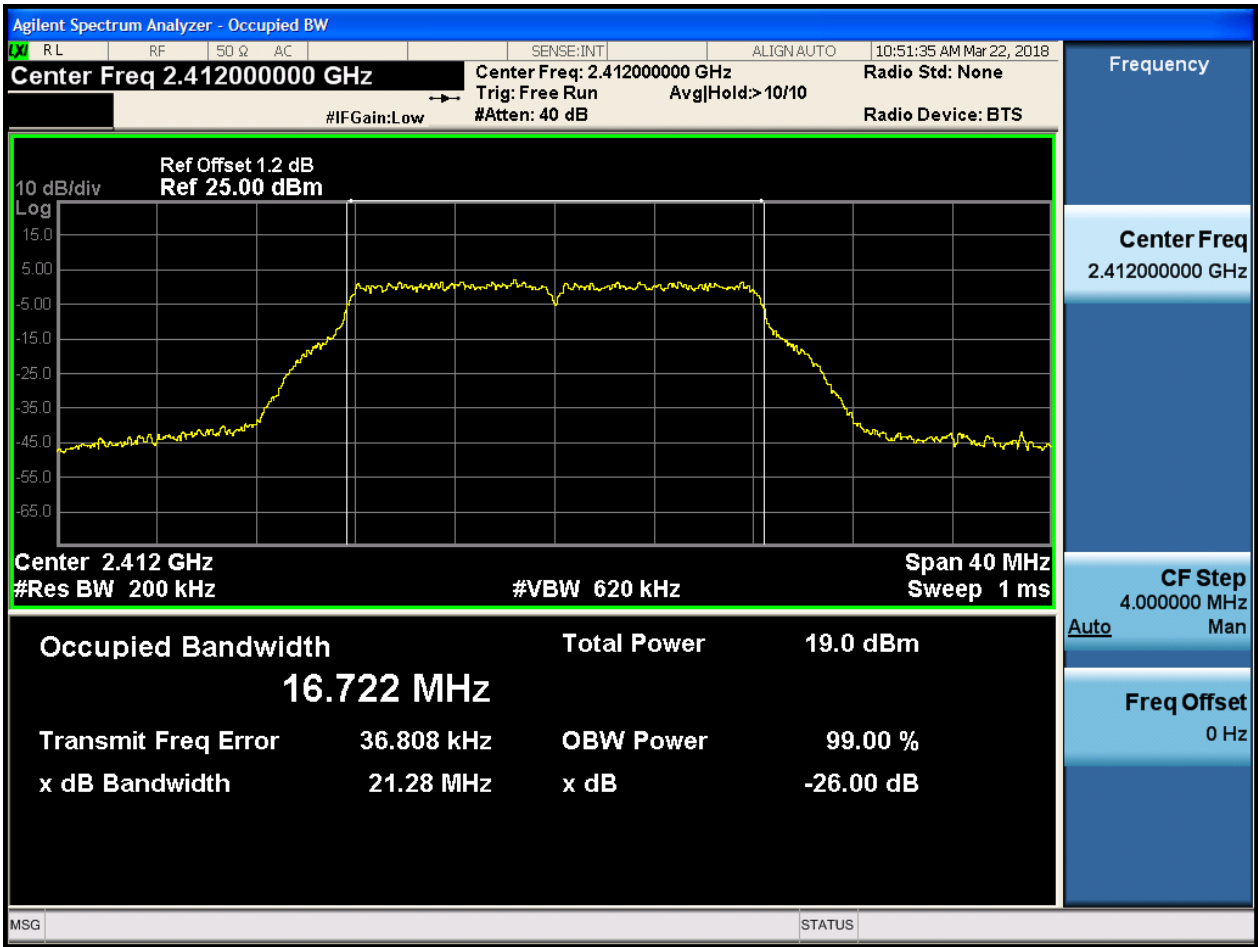


2.12 11G\_L\_2417@Ant 1



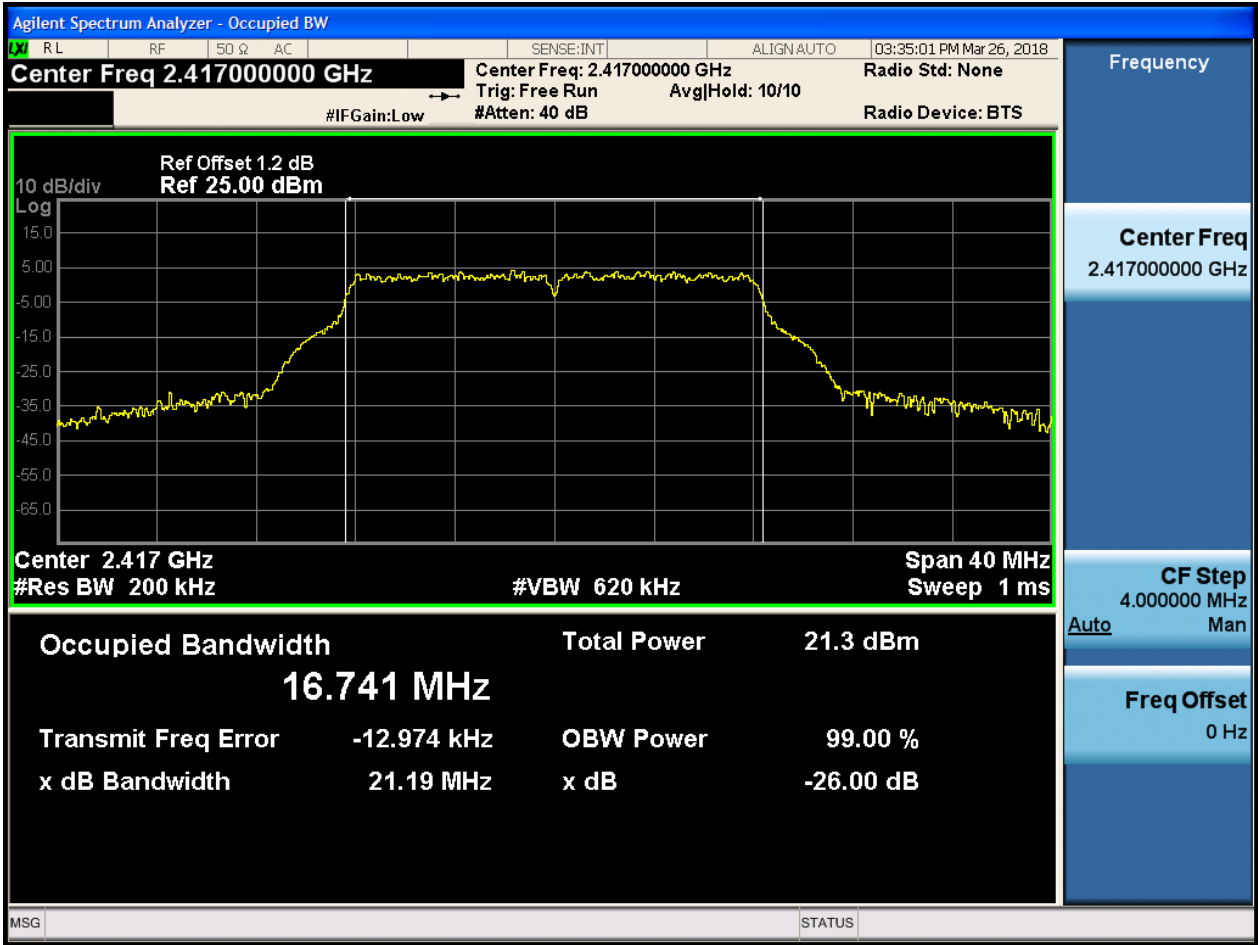


2.13 11G\_L\_2412@Ant 2



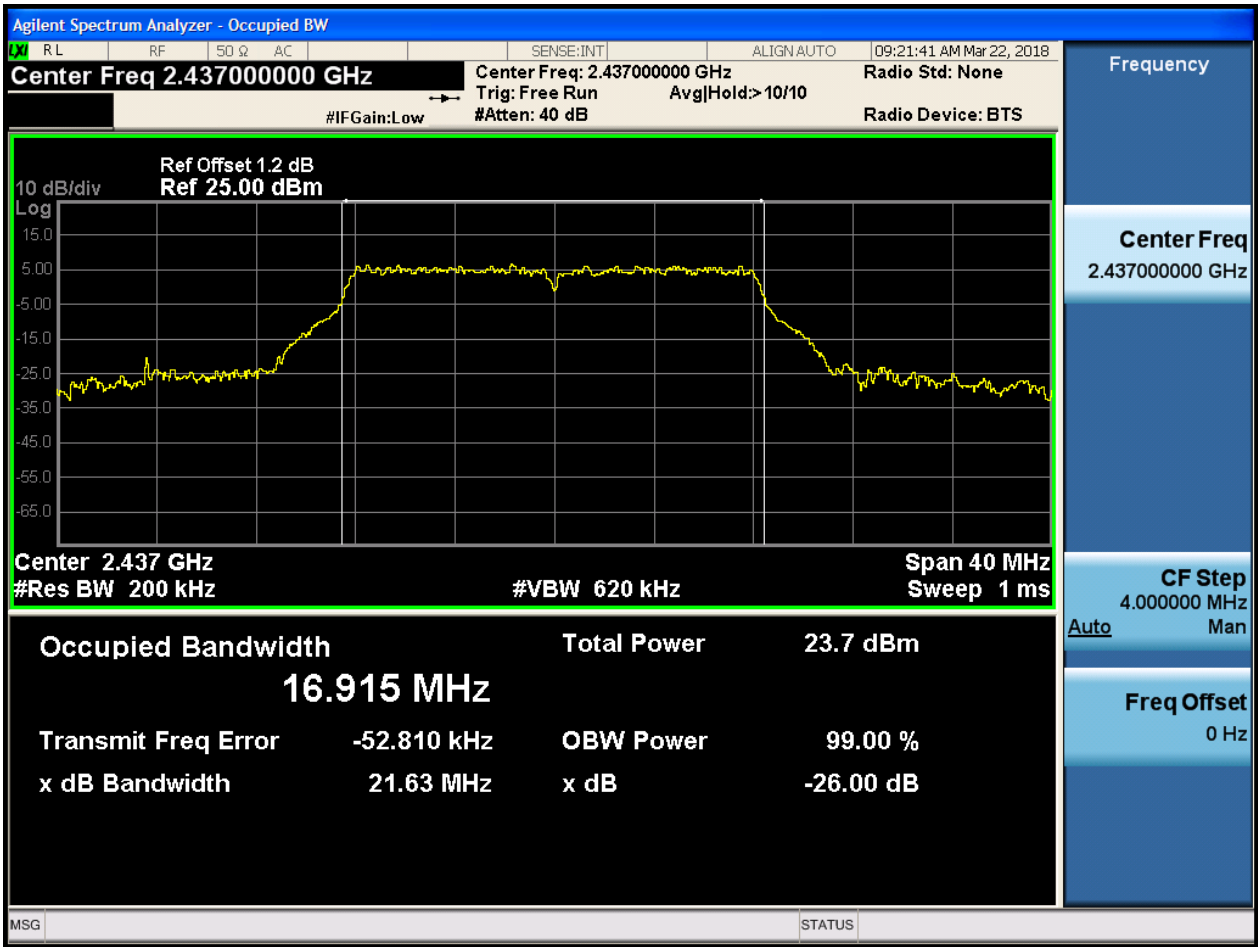


2.14 11G\_L\_2417@Ant 2



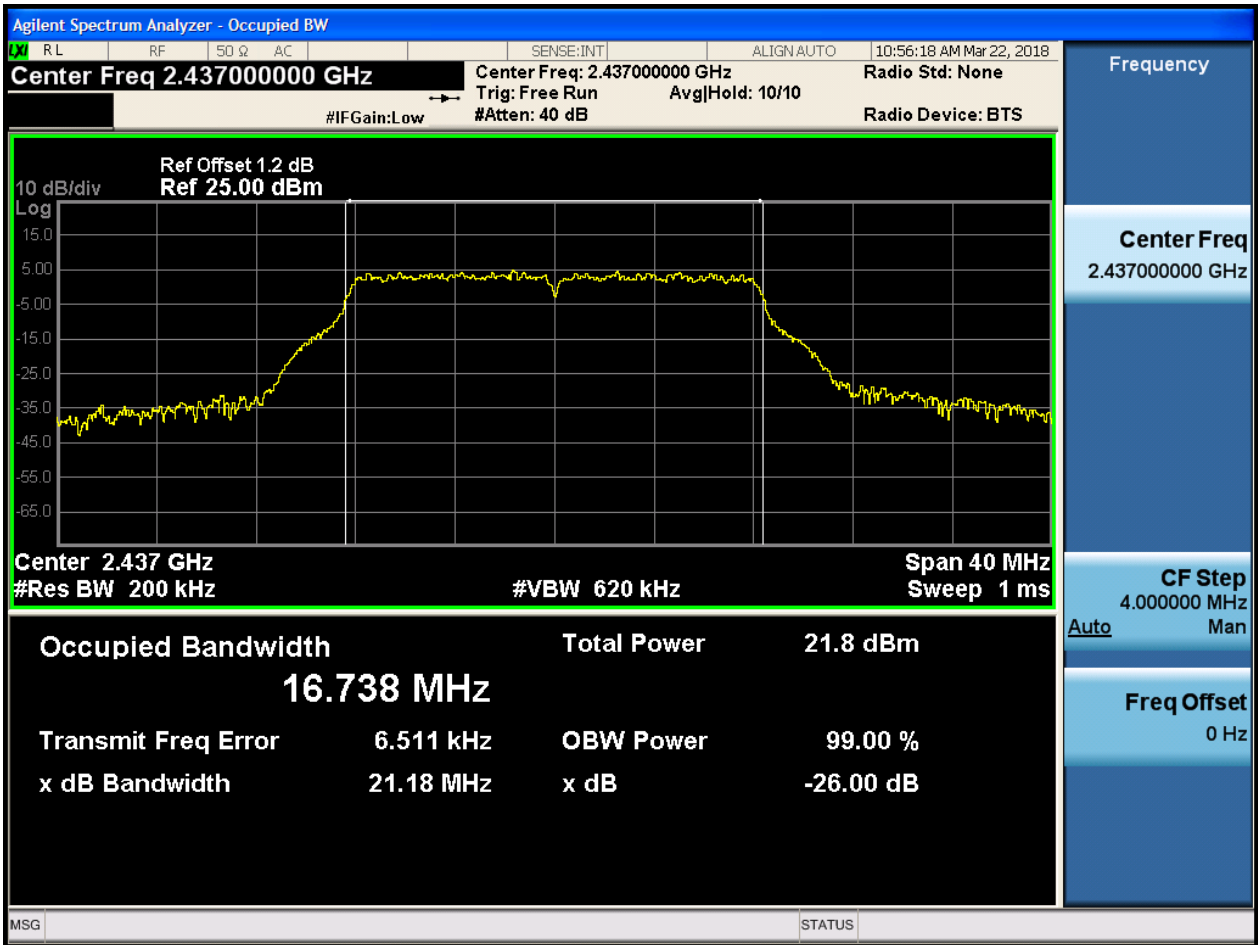


2.15 11G\_M@Ant 1



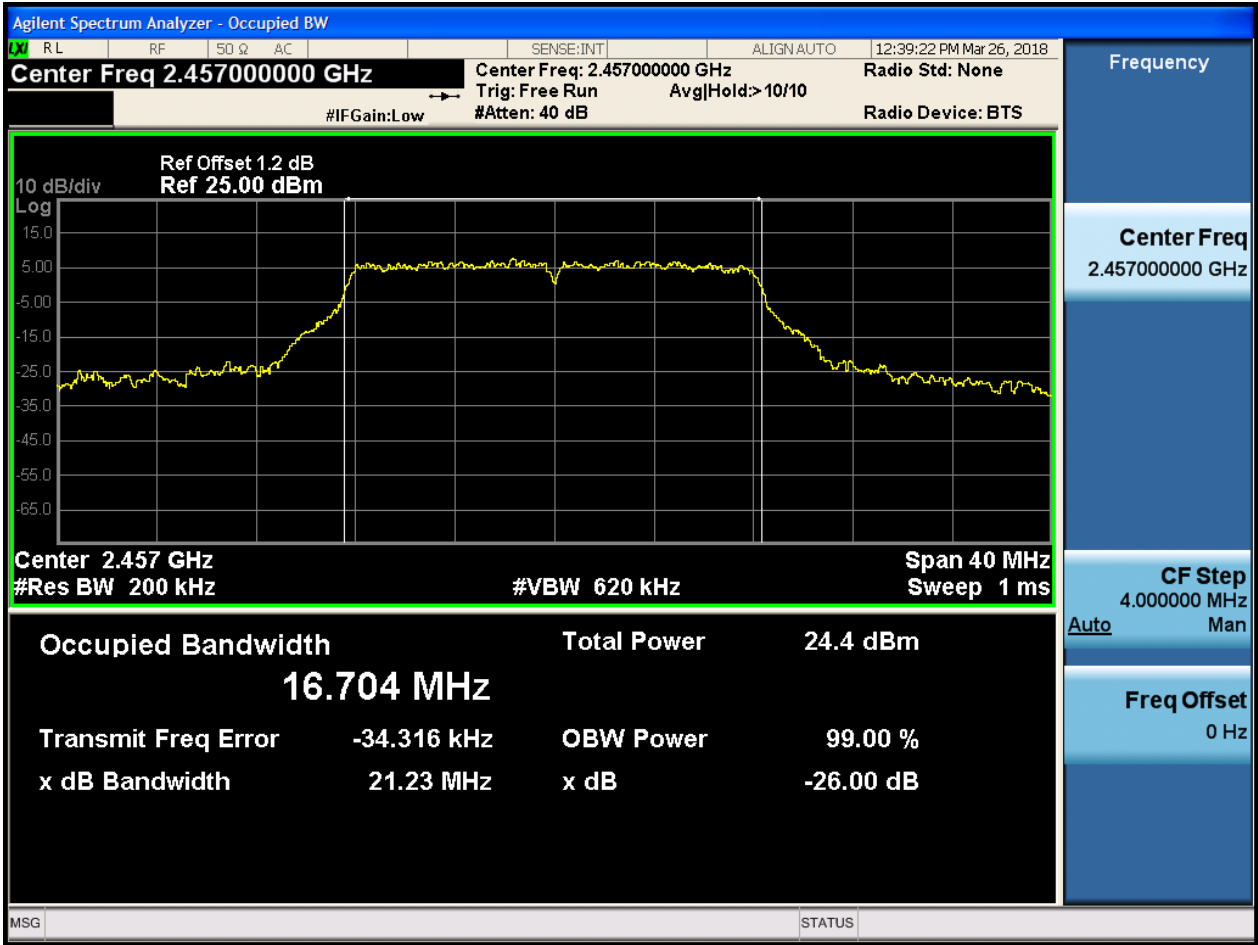


2.16 11G\_M@Ant 2





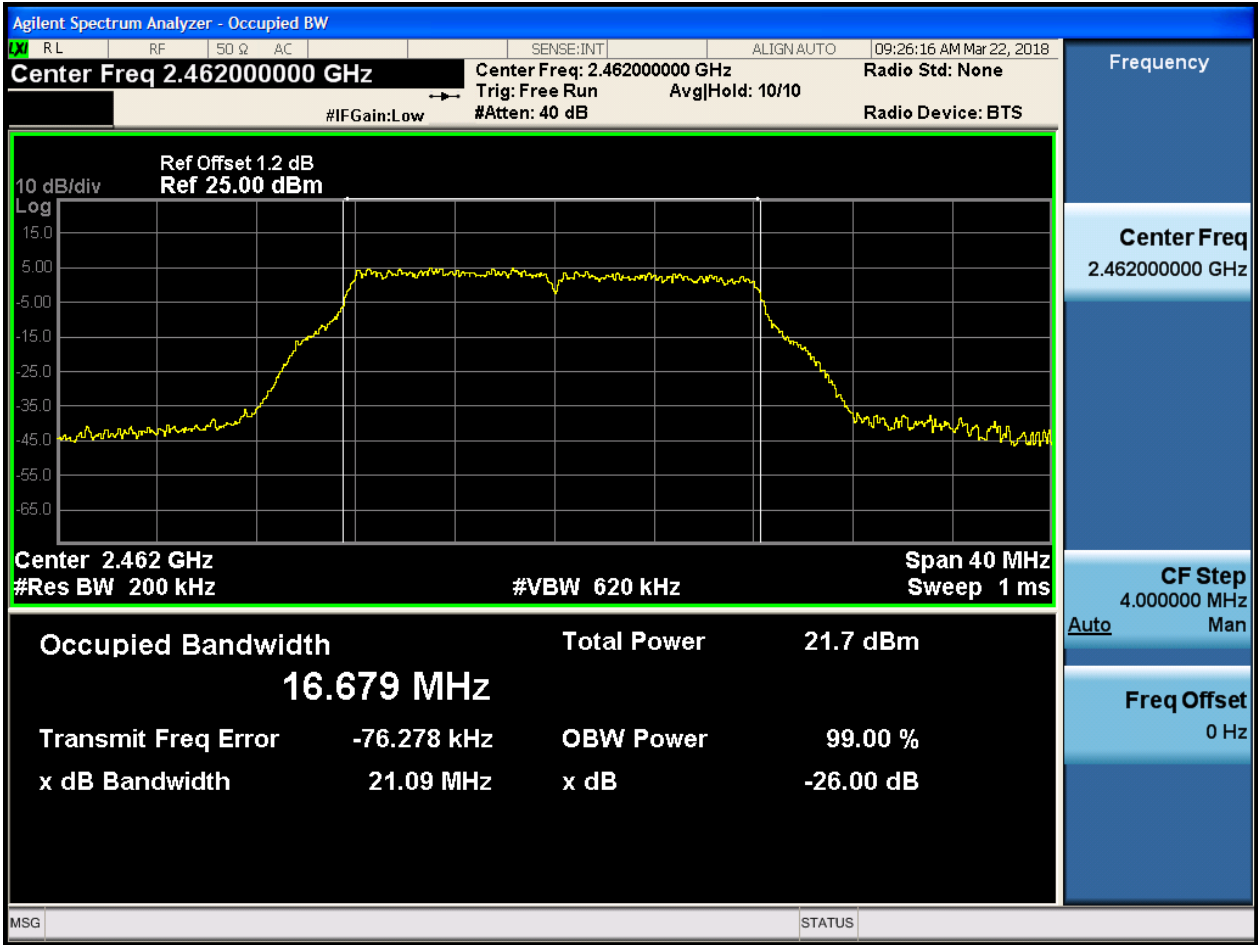
2.17 11G\_H\_2457@Ant 1





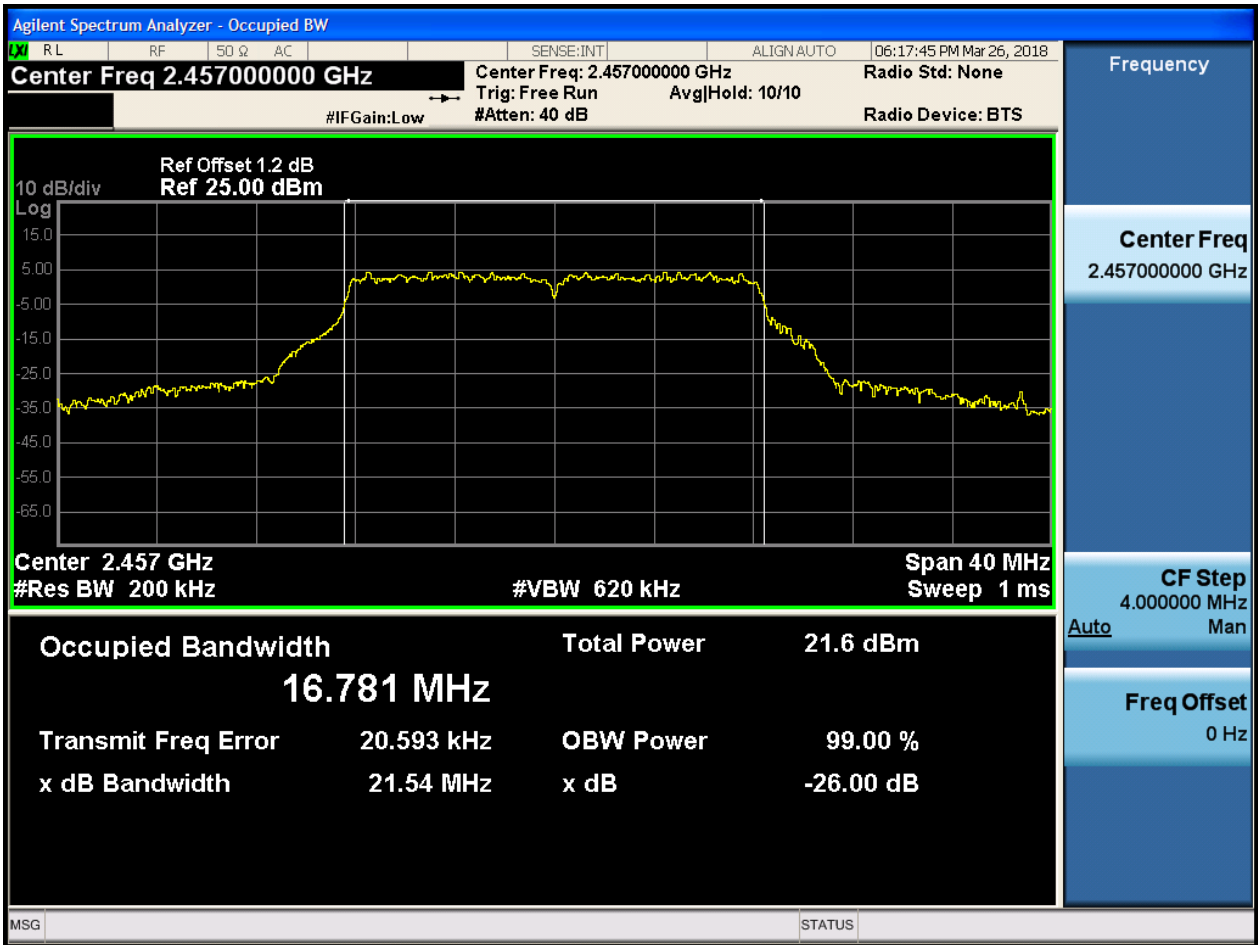


2.18 11G\_H\_2462@Ant 1



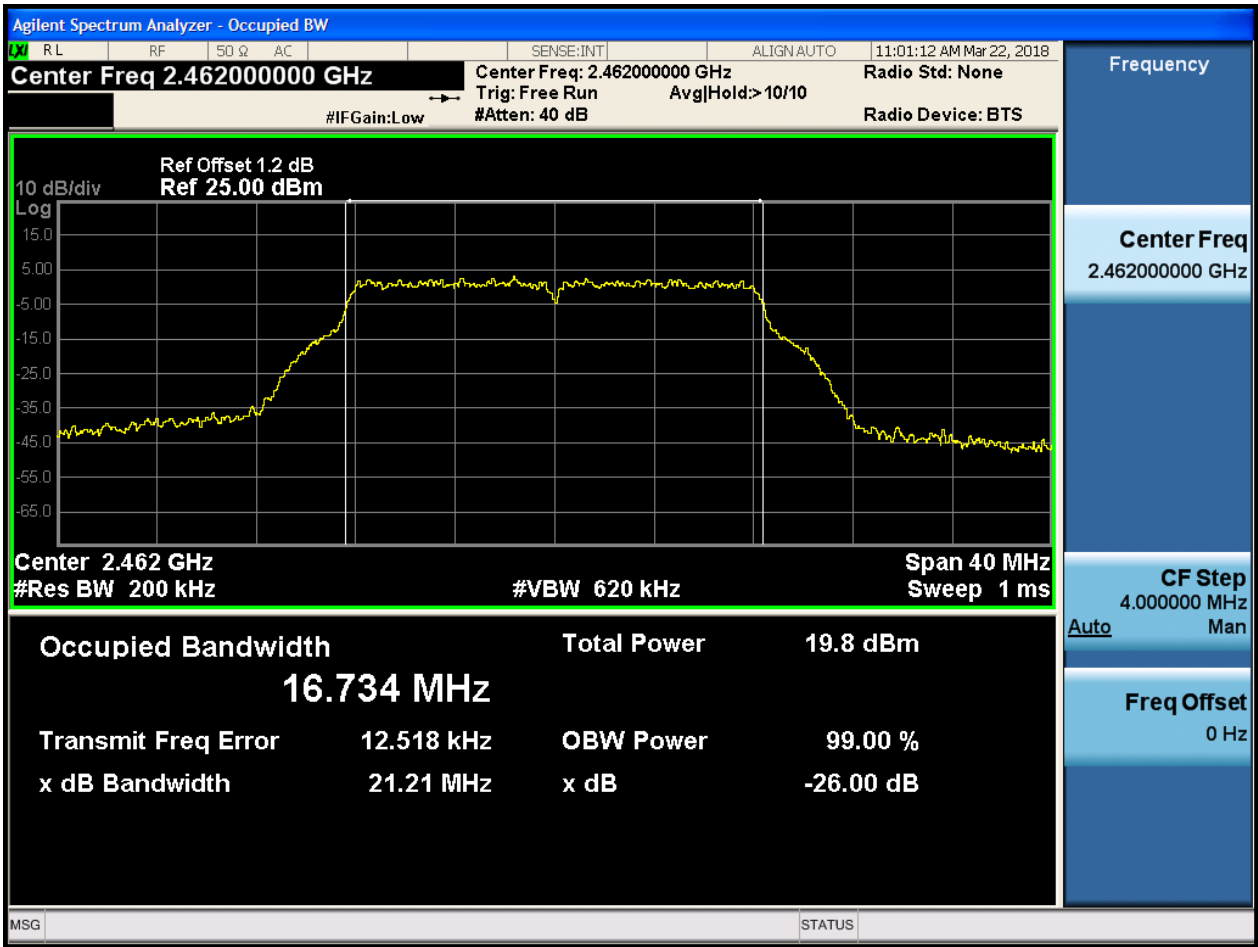


2.19 11G\_H\_2457@Ant 2



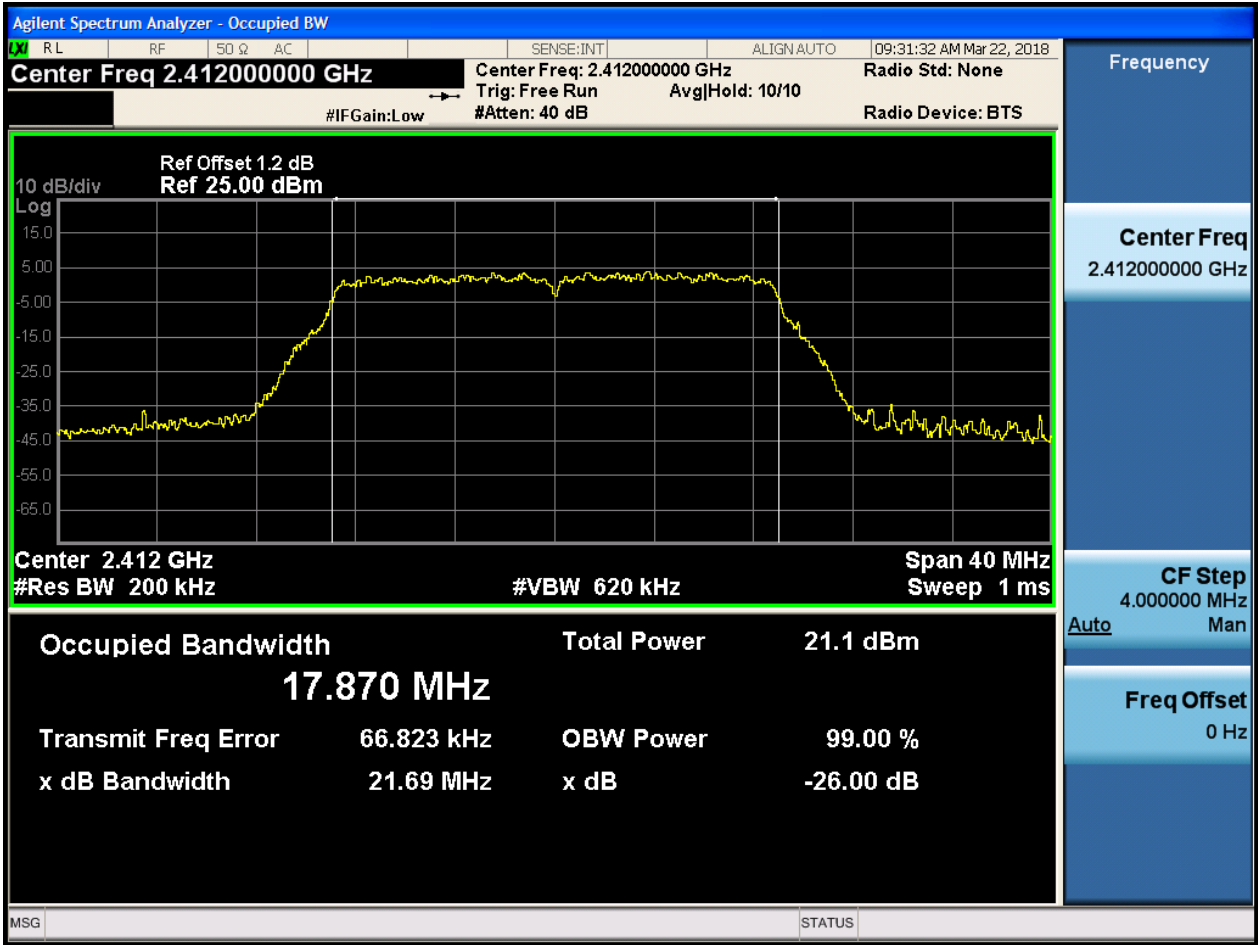


2.20 11G\_H\_2462@Ant 2



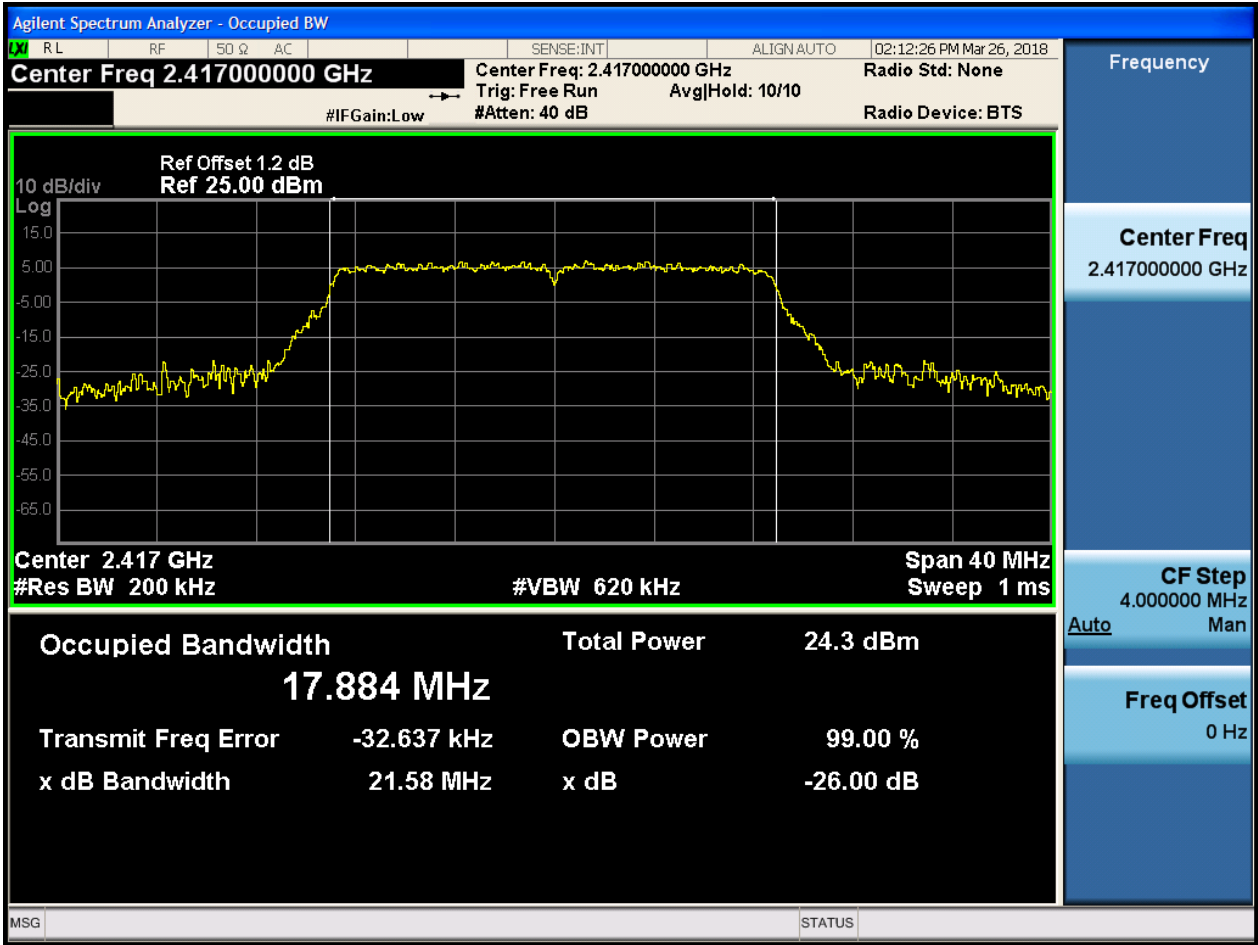


2.21 11N20\_L\_2412@Ant 1



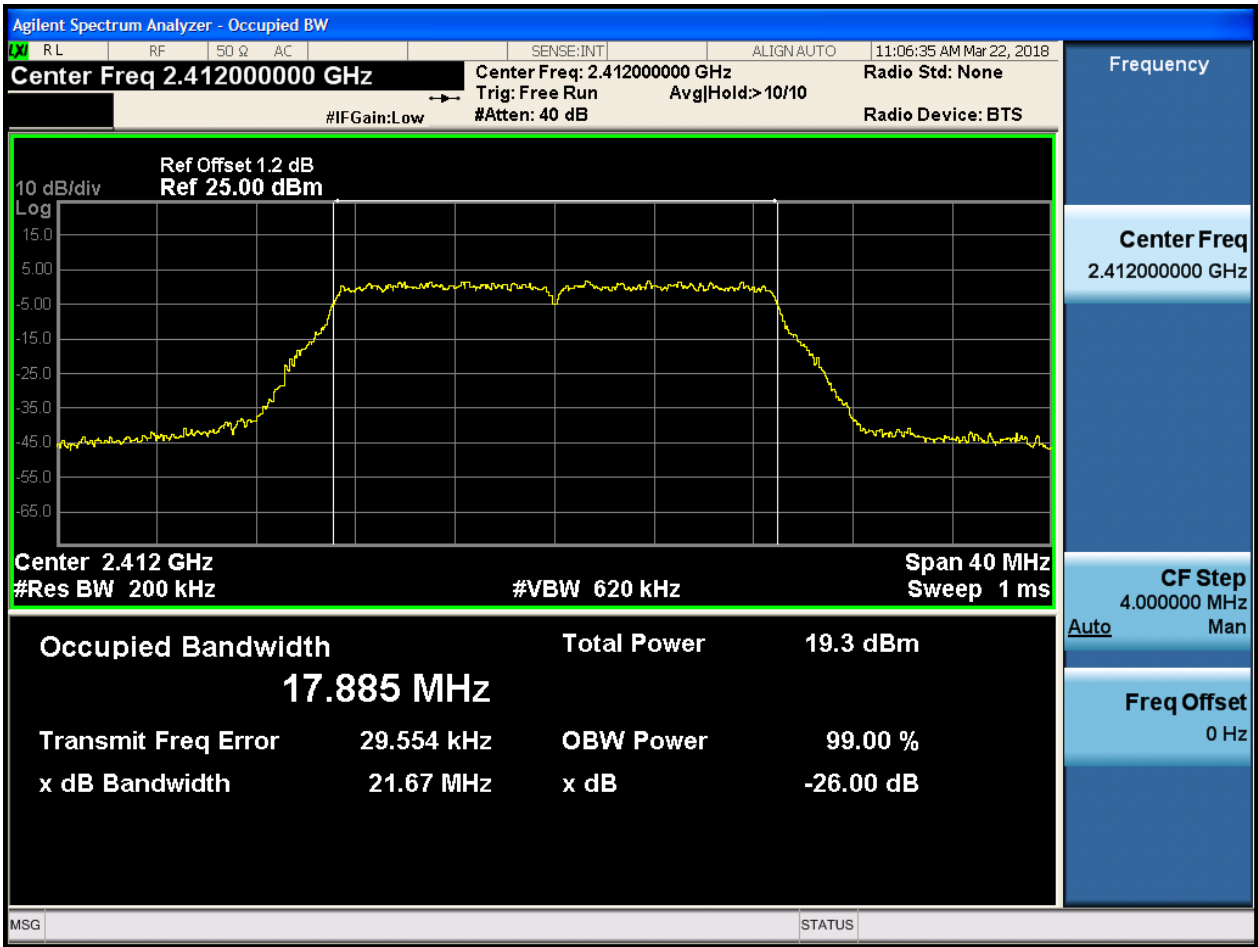


2.22 11N20\_L\_2417@Ant 1



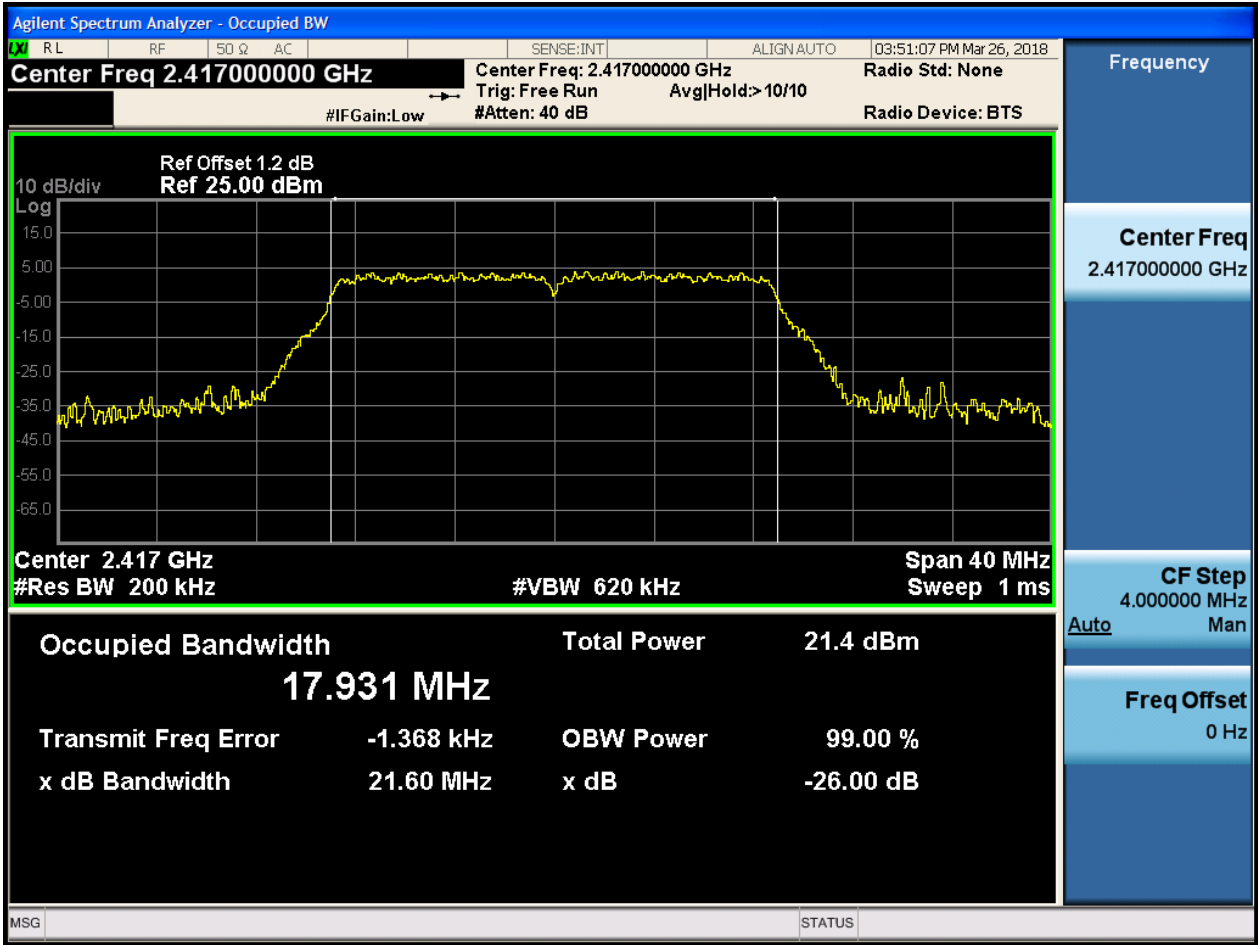


2.23 11N20\_L\_2412@Ant 2



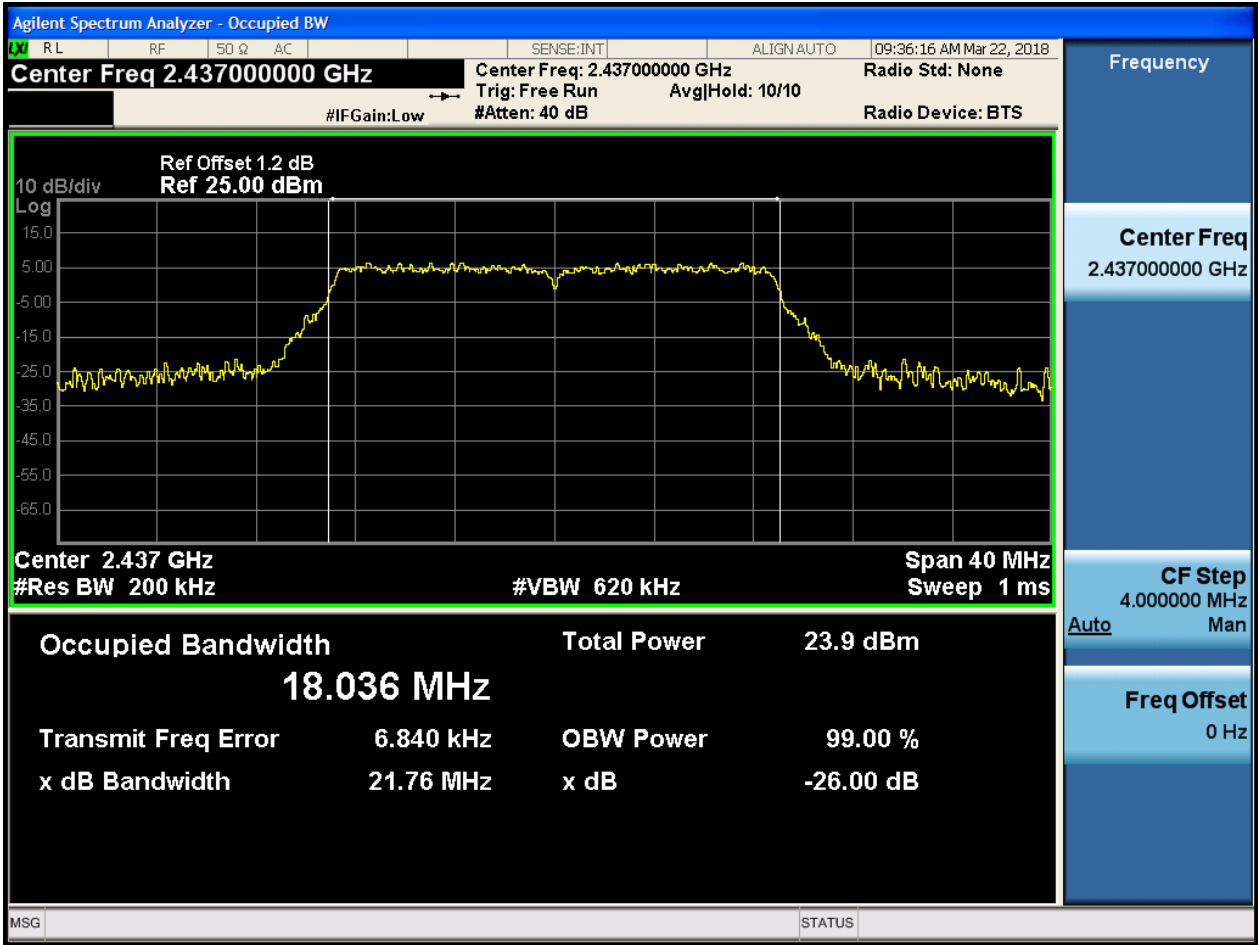


2.24 11N20\_L\_2417@Ant 2





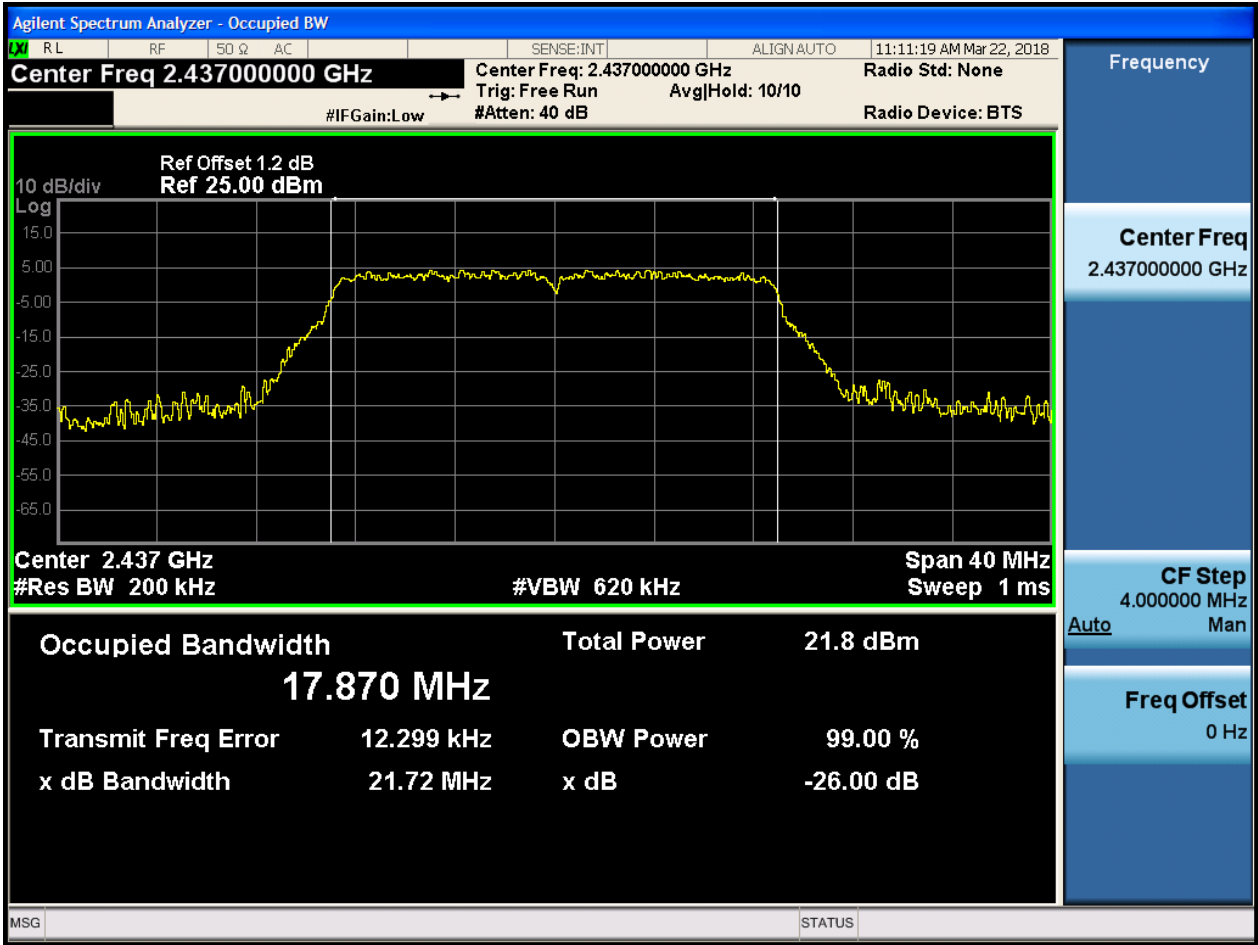
2.25 11N20\_M@Ant 1





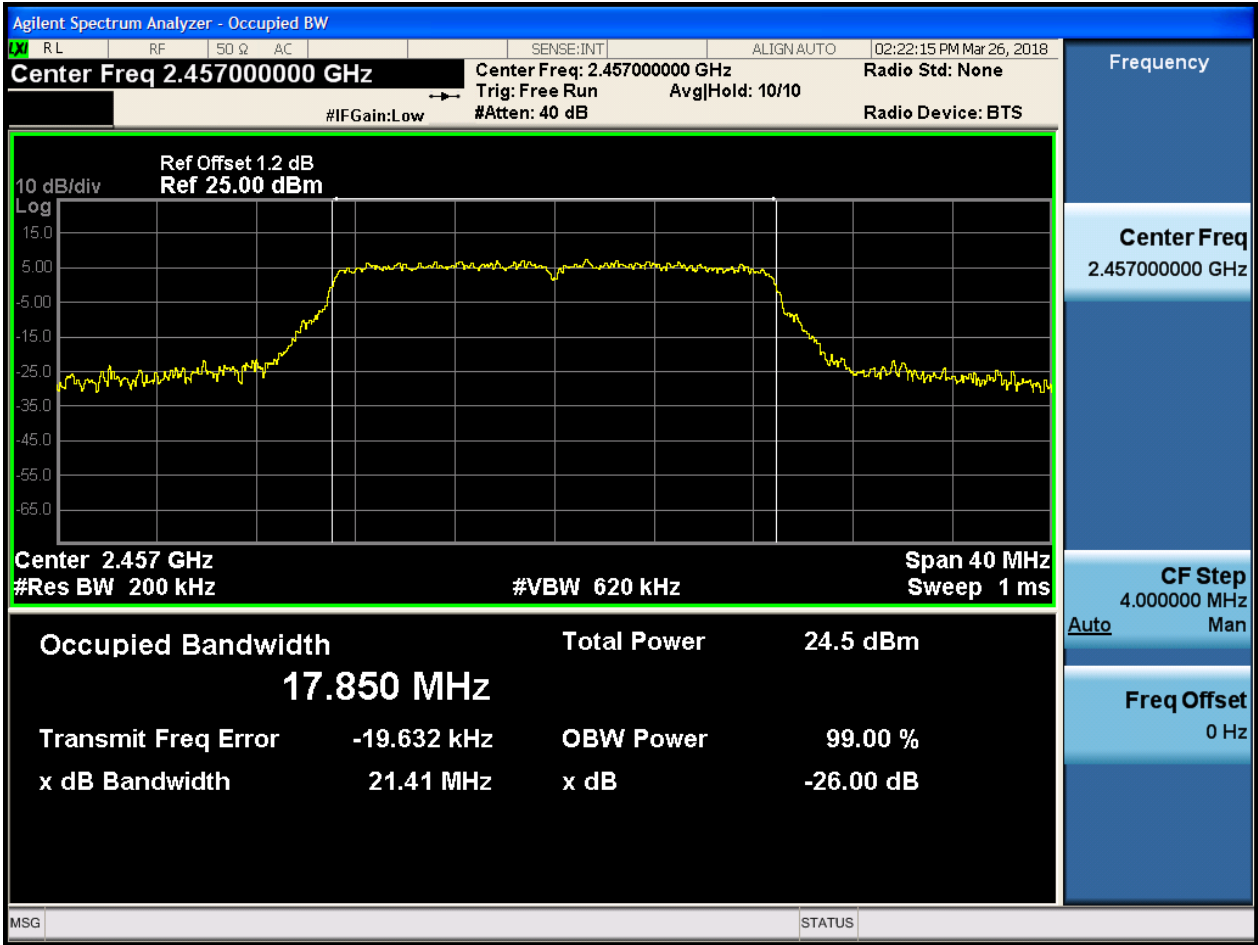


2.26 11N20\_M@Ant 2



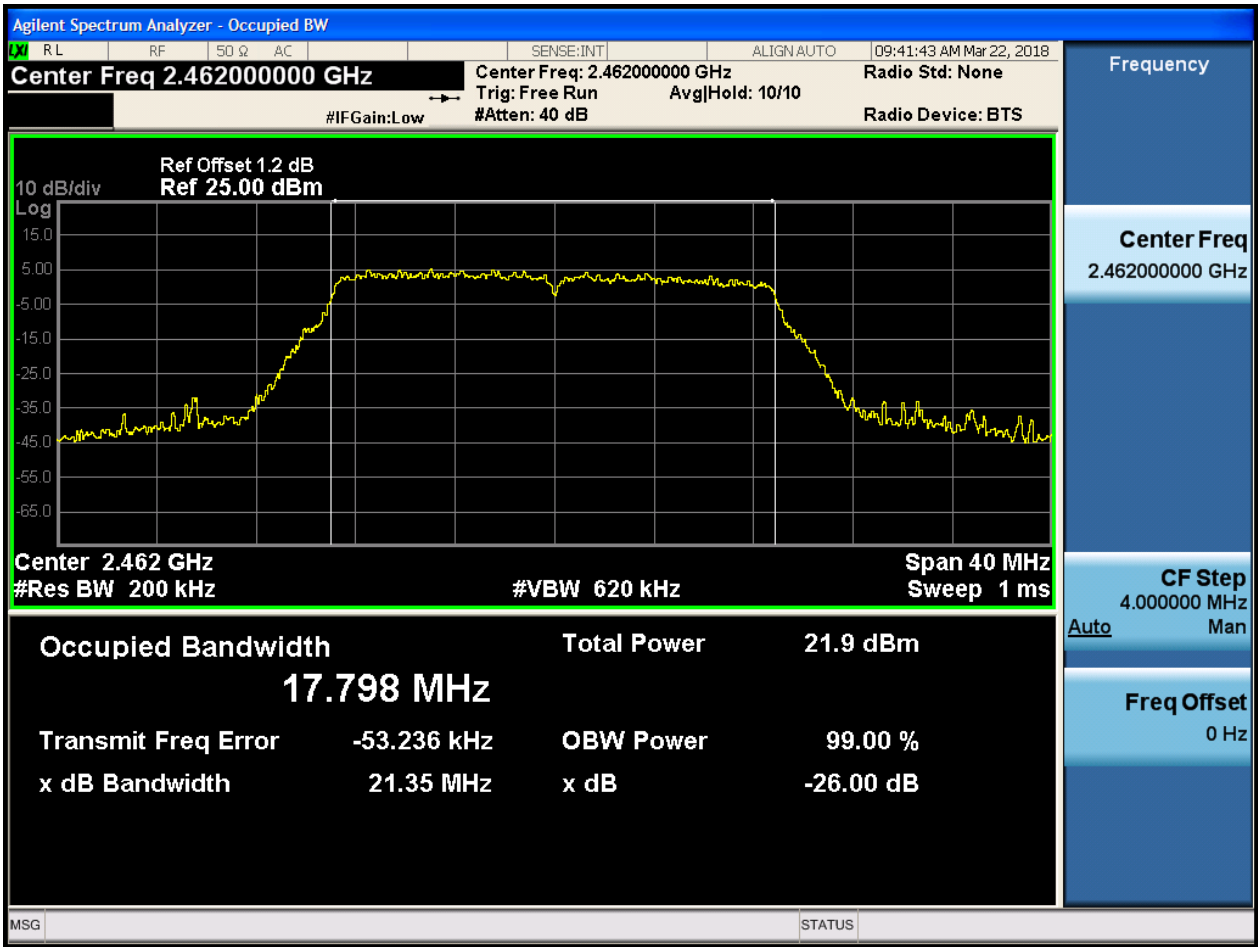


2.27 11N20\_H\_2457@Ant 1



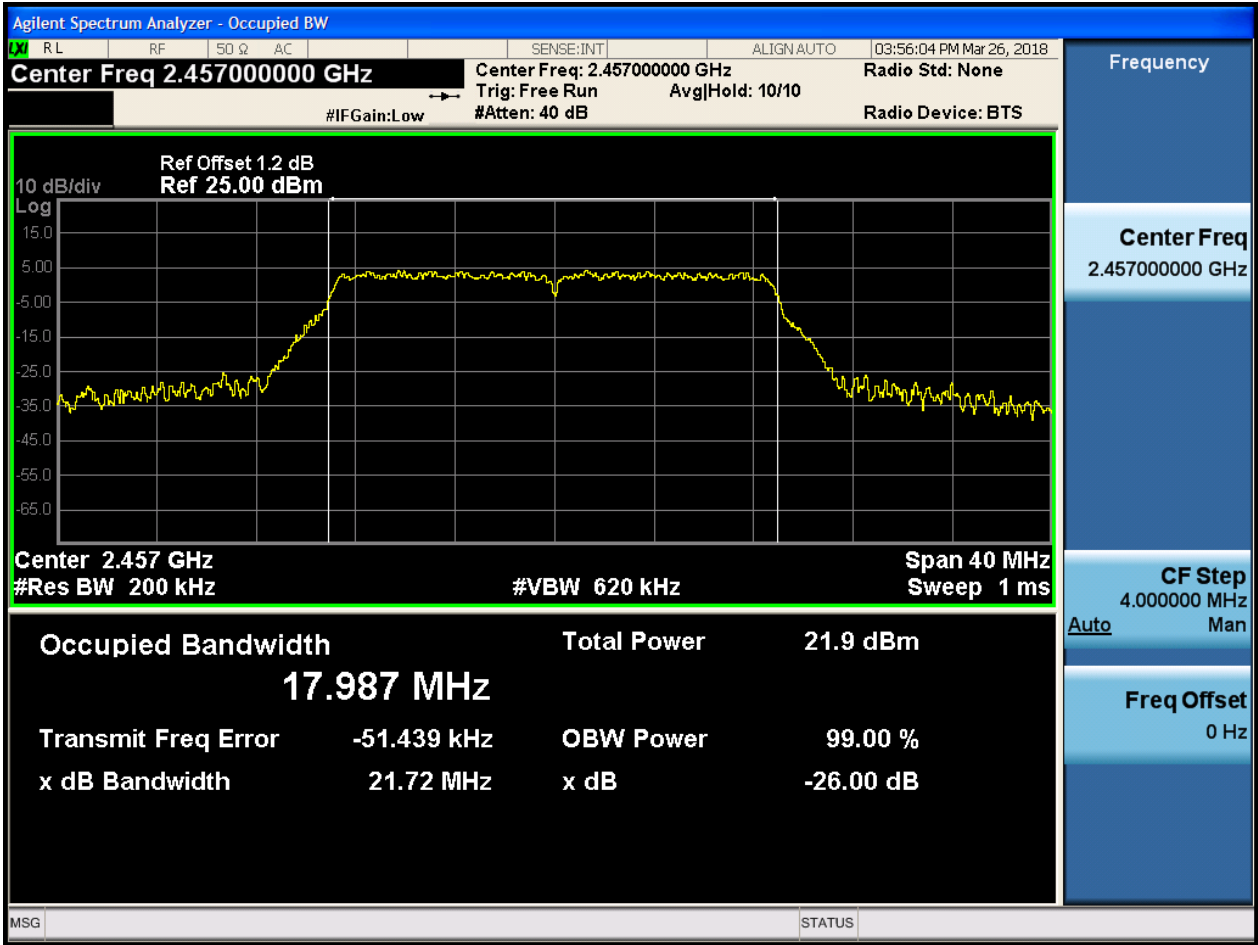


2.28 11N20\_H\_2462@Ant 1



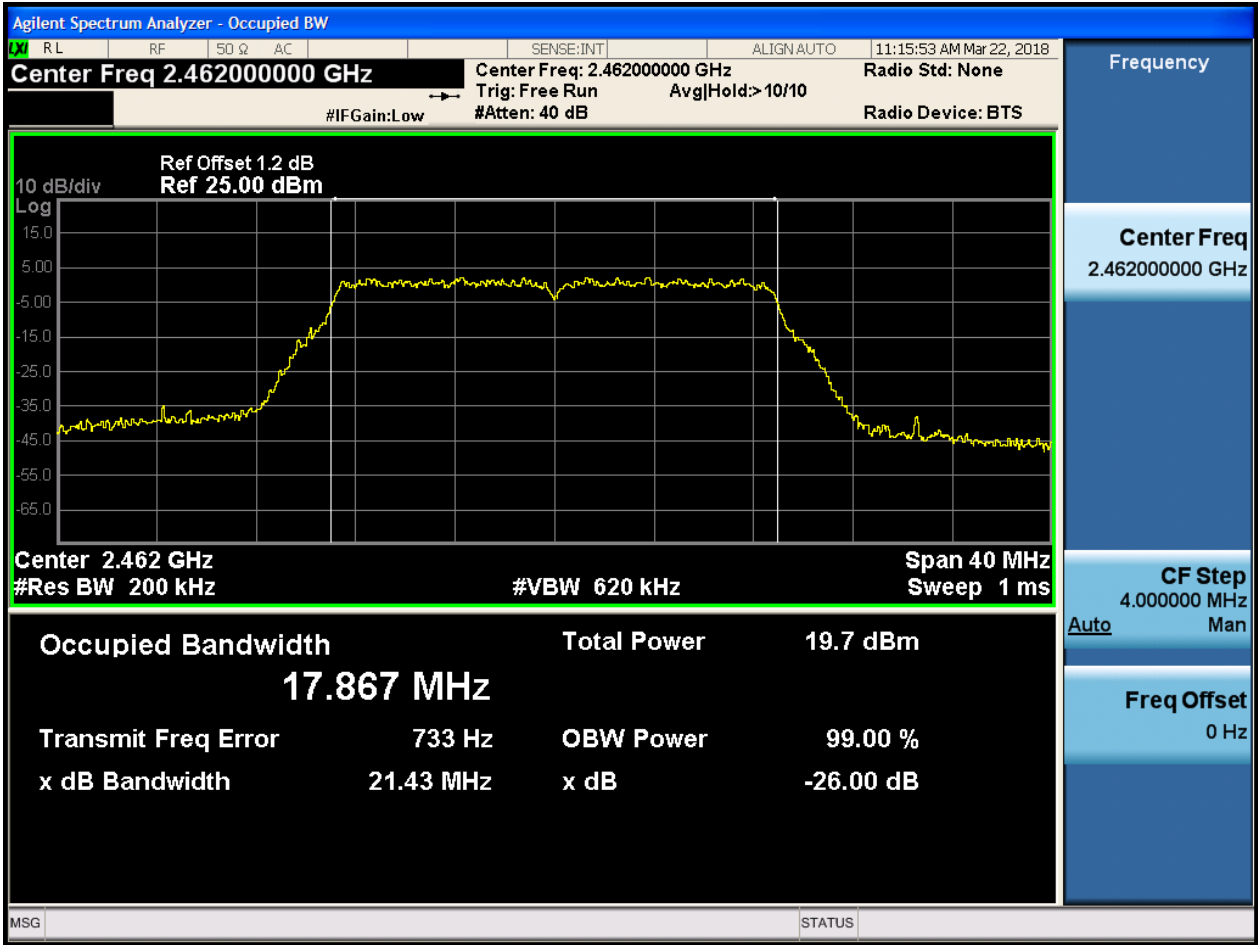


2.29 11N20\_H\_2457@Ant 2



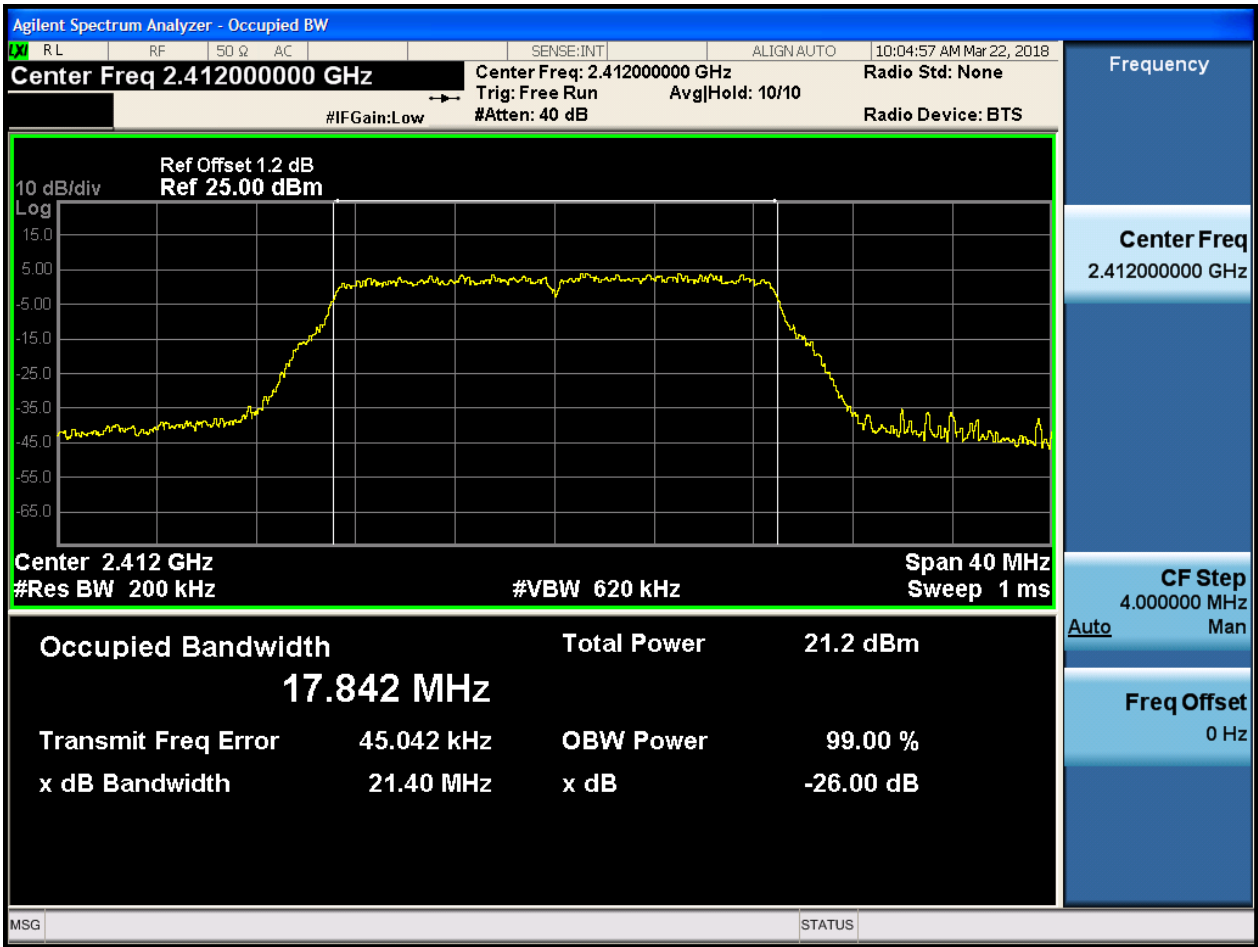


2.30 11N20\_H\_2462@Ant 2



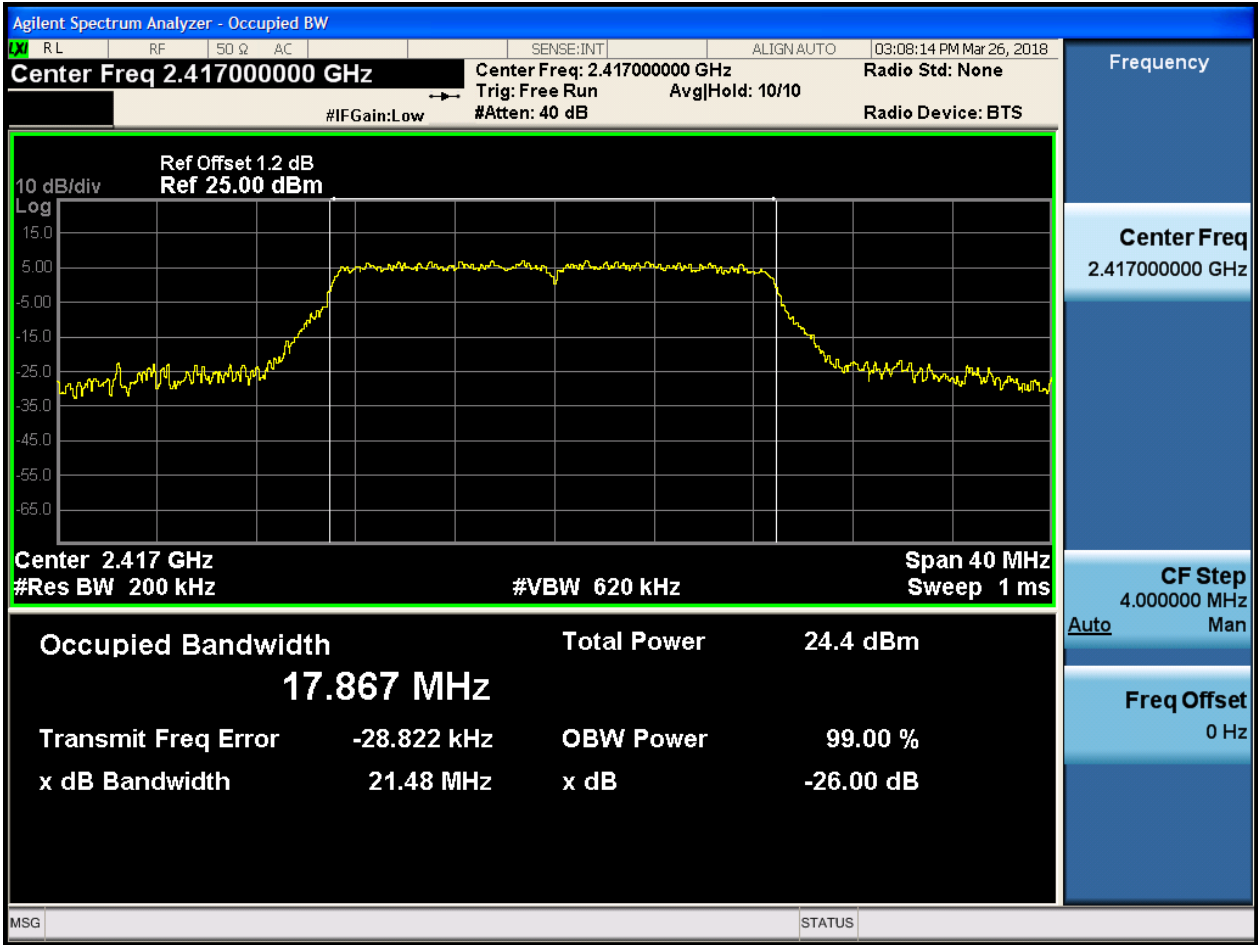


2.31 11N20m\_L\_2412@Ant 1



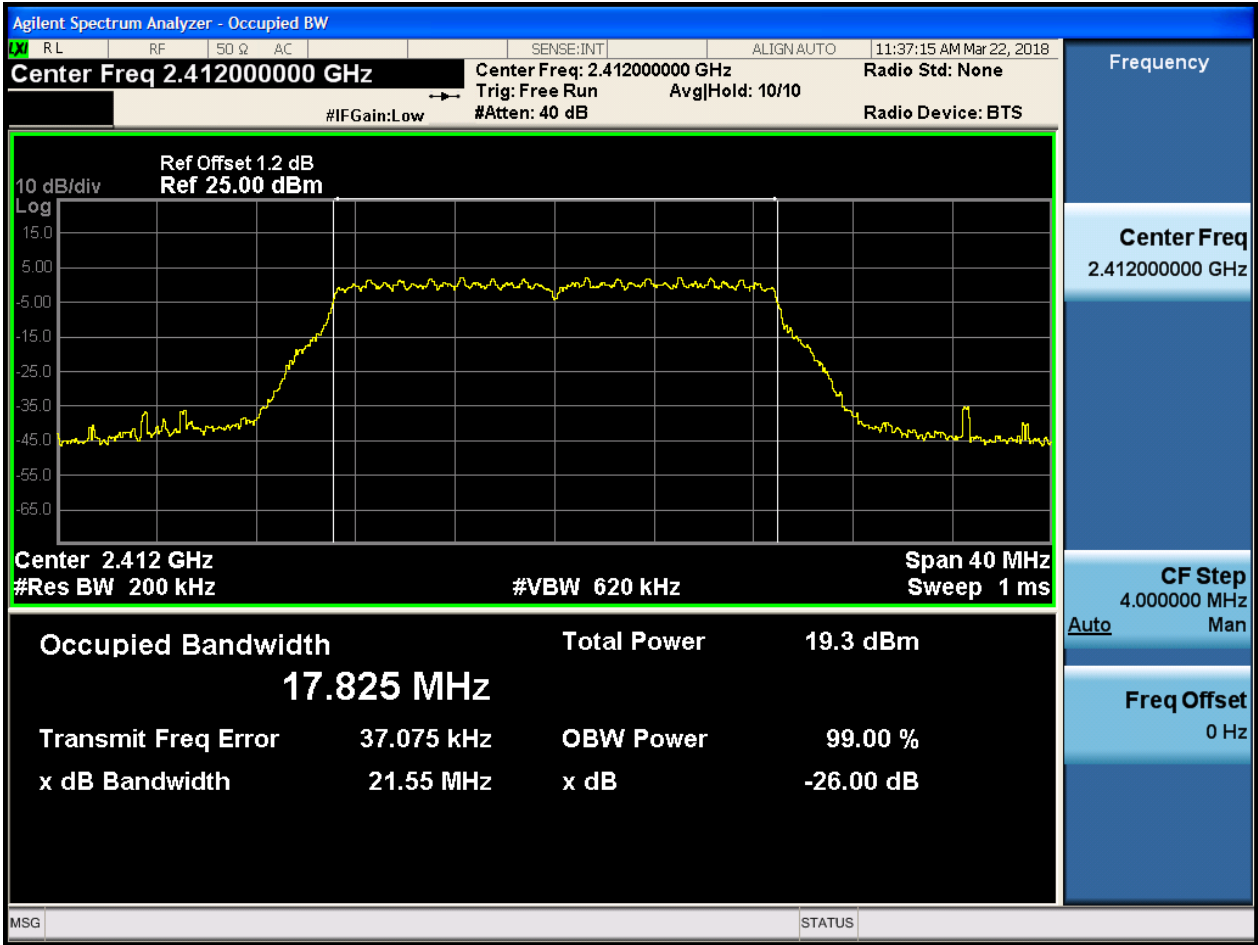


2.32 11N20m\_L\_2417@Ant 1





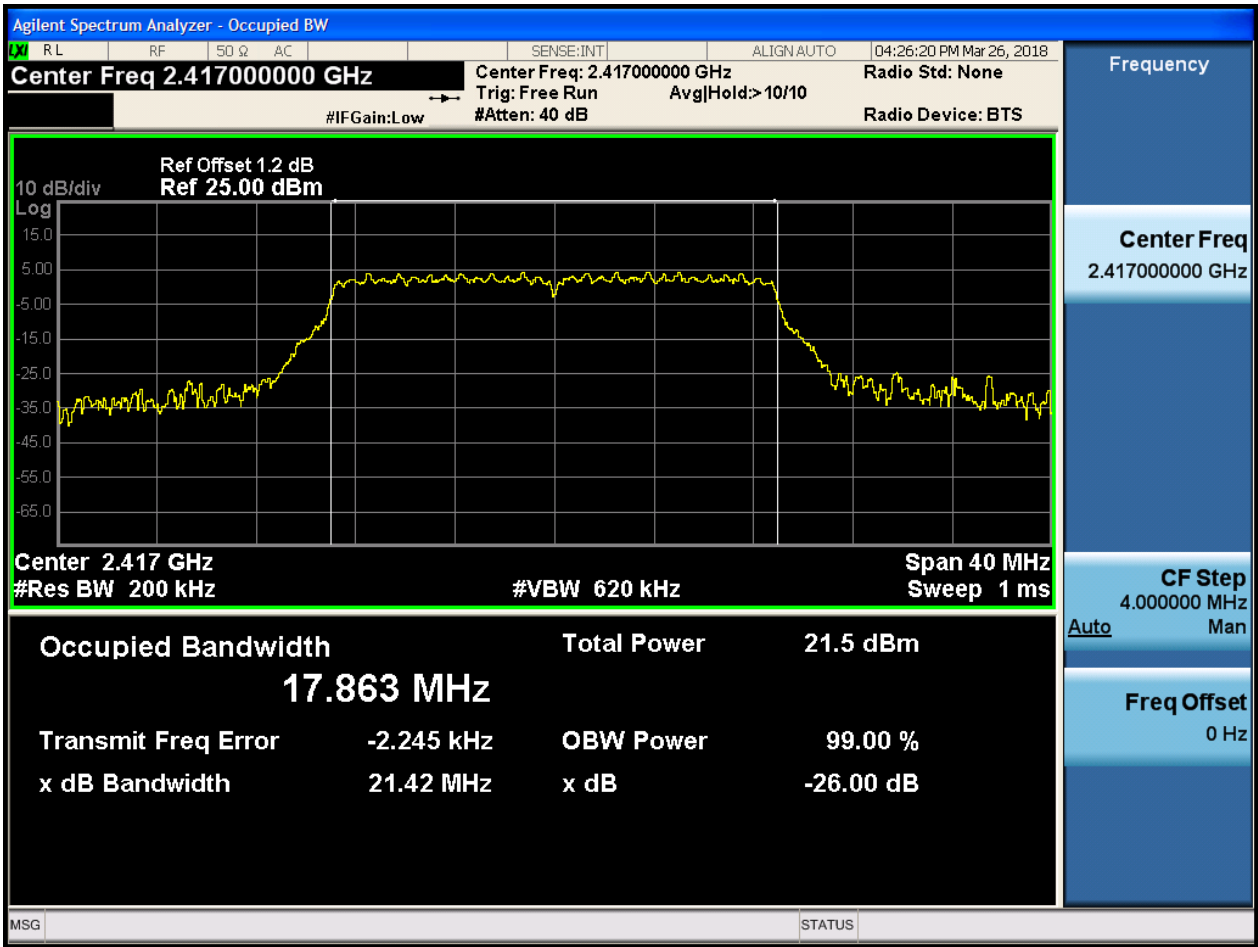
2.33 11N20m\_L\_2412@Ant 2





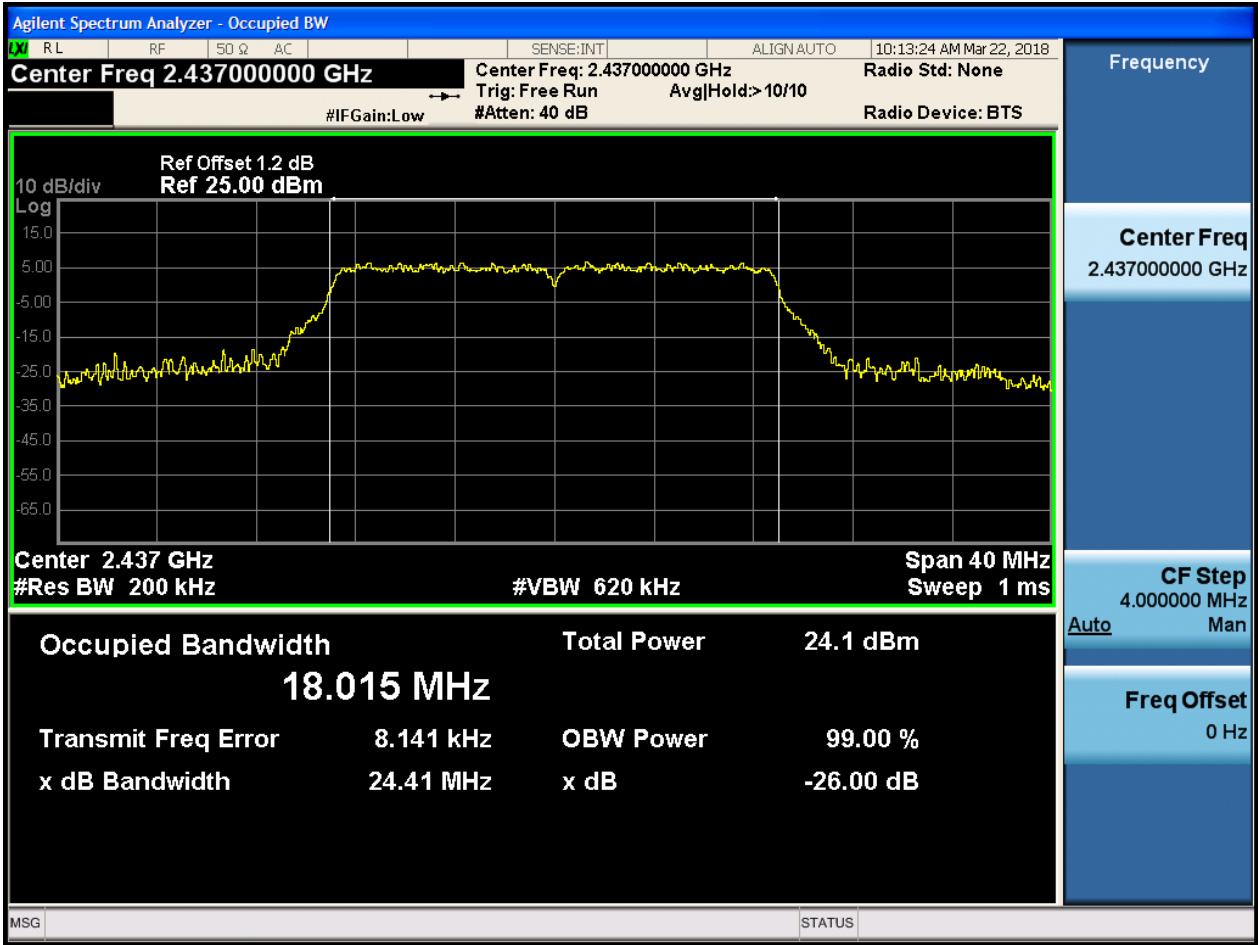


2.34 11N20m\_L\_2417@Ant 2



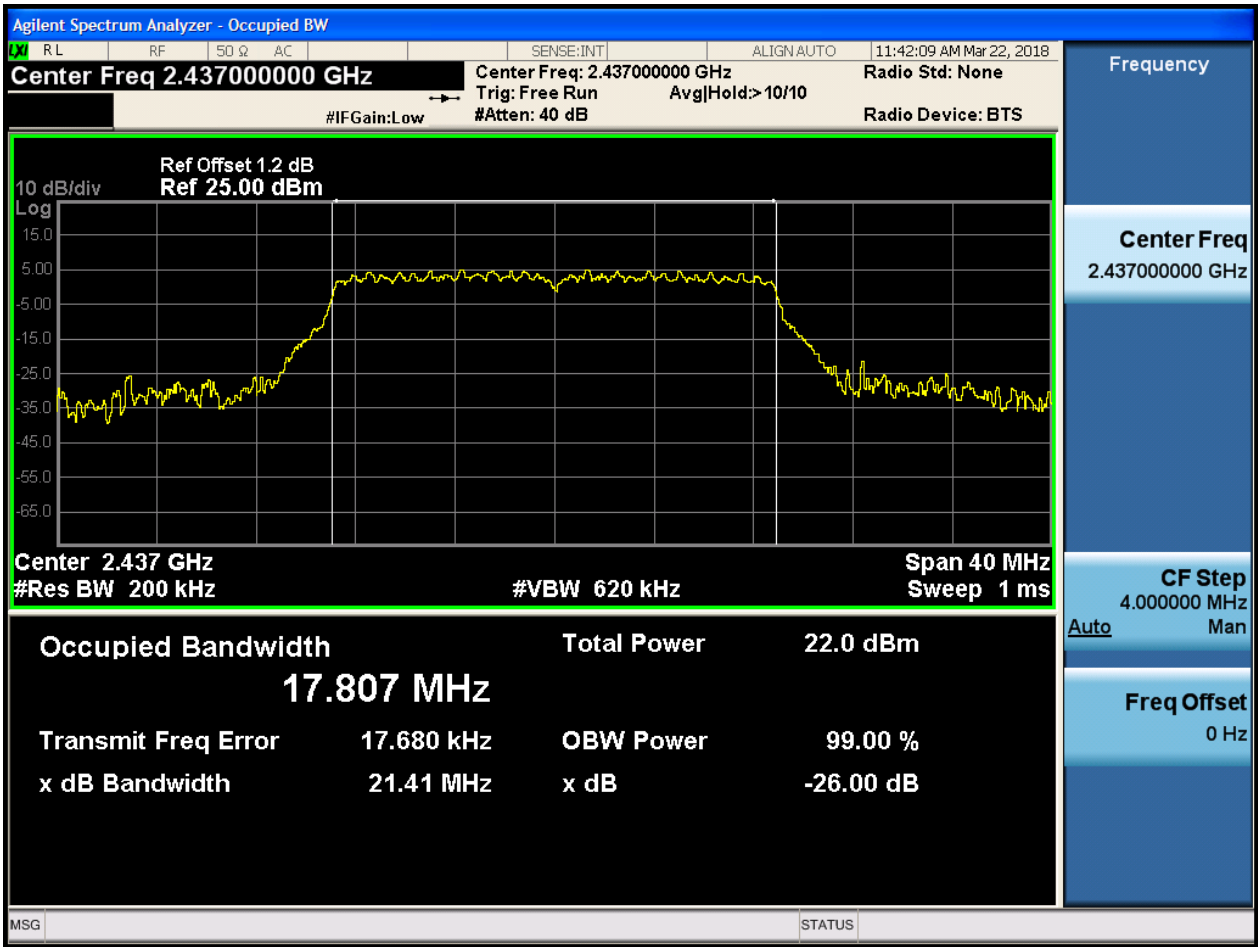


2.35 11N20m\_M@Ant 1



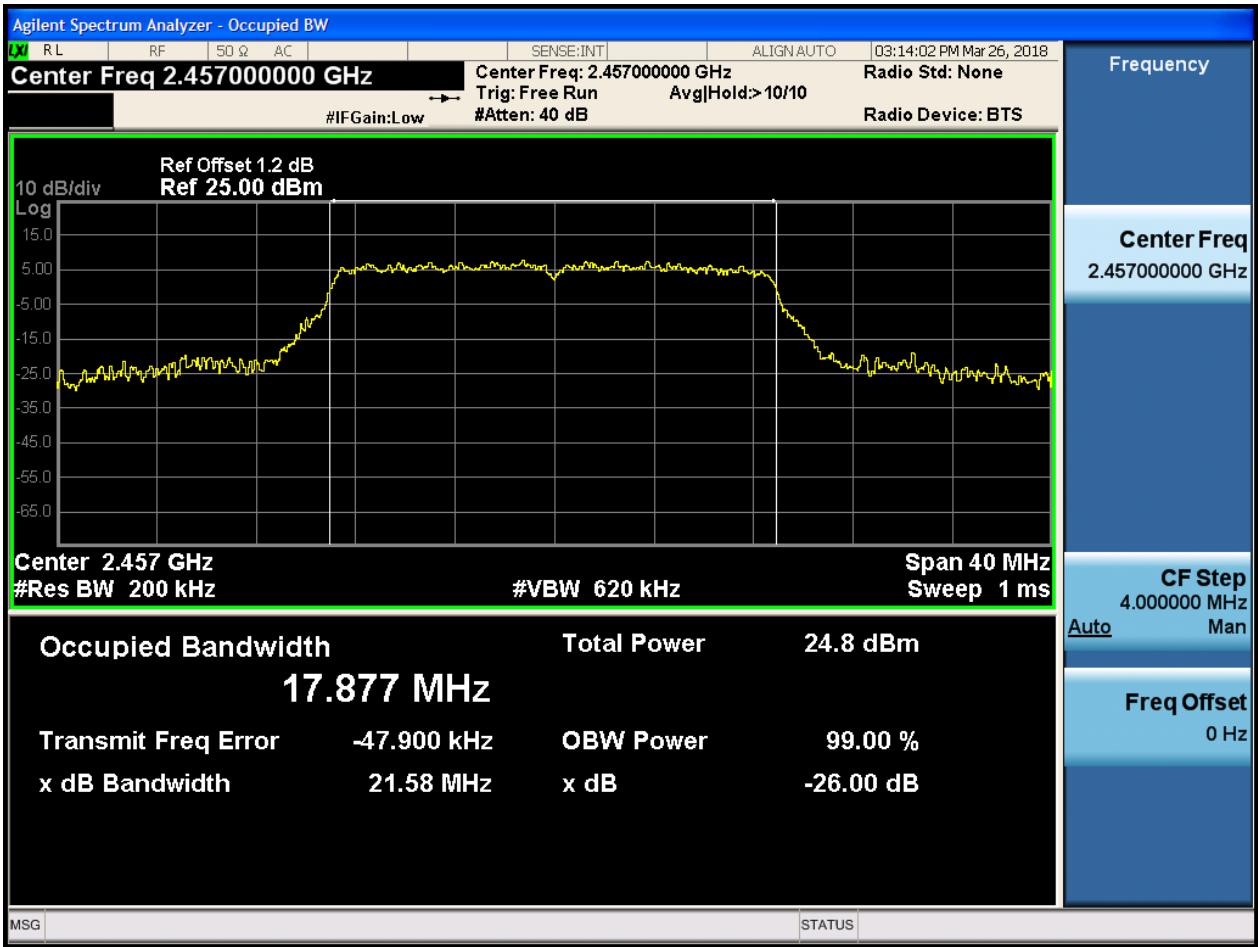


2.36 11N20m\_M@Ant 2



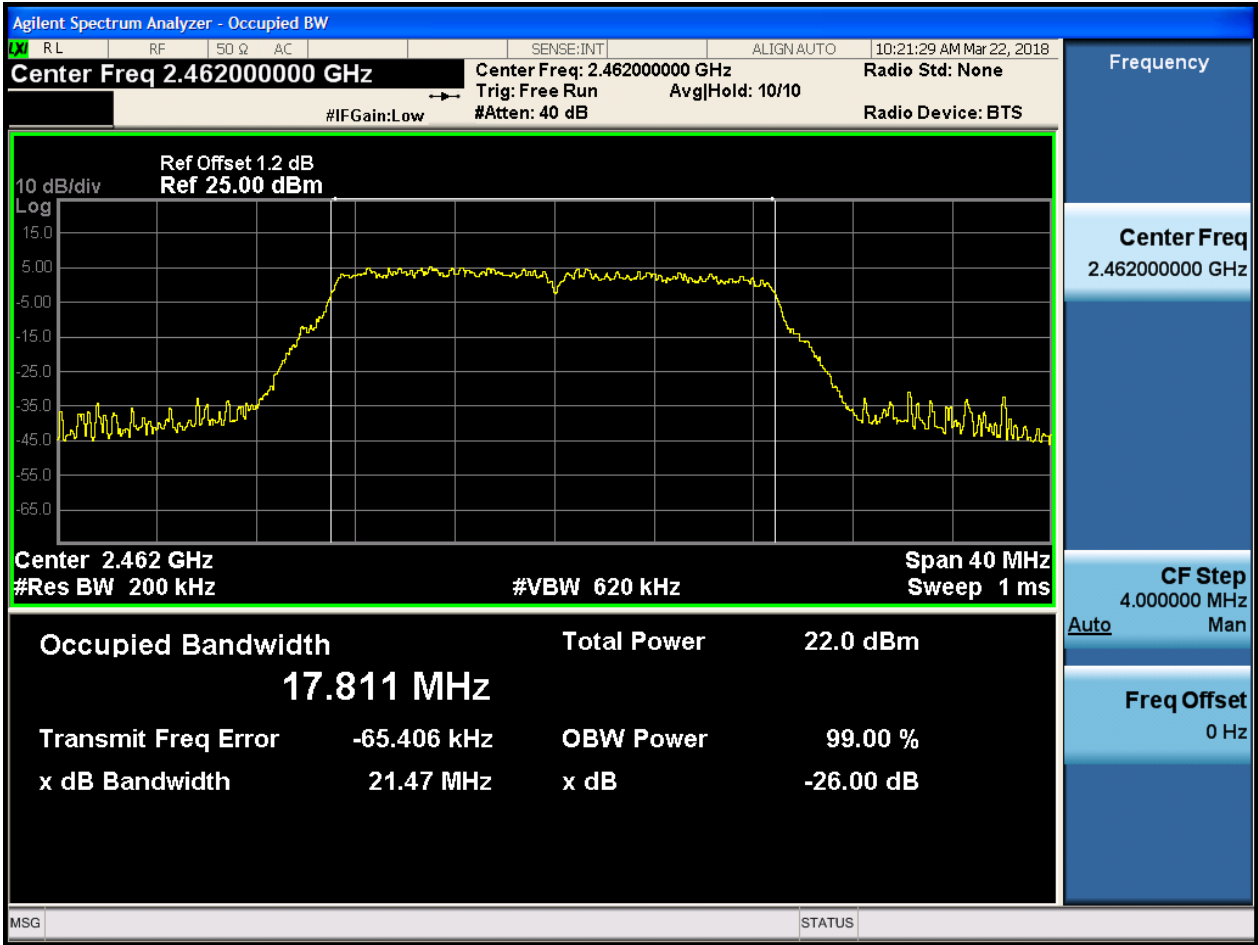


2.37 11N20m\_H\_2457@Ant 1



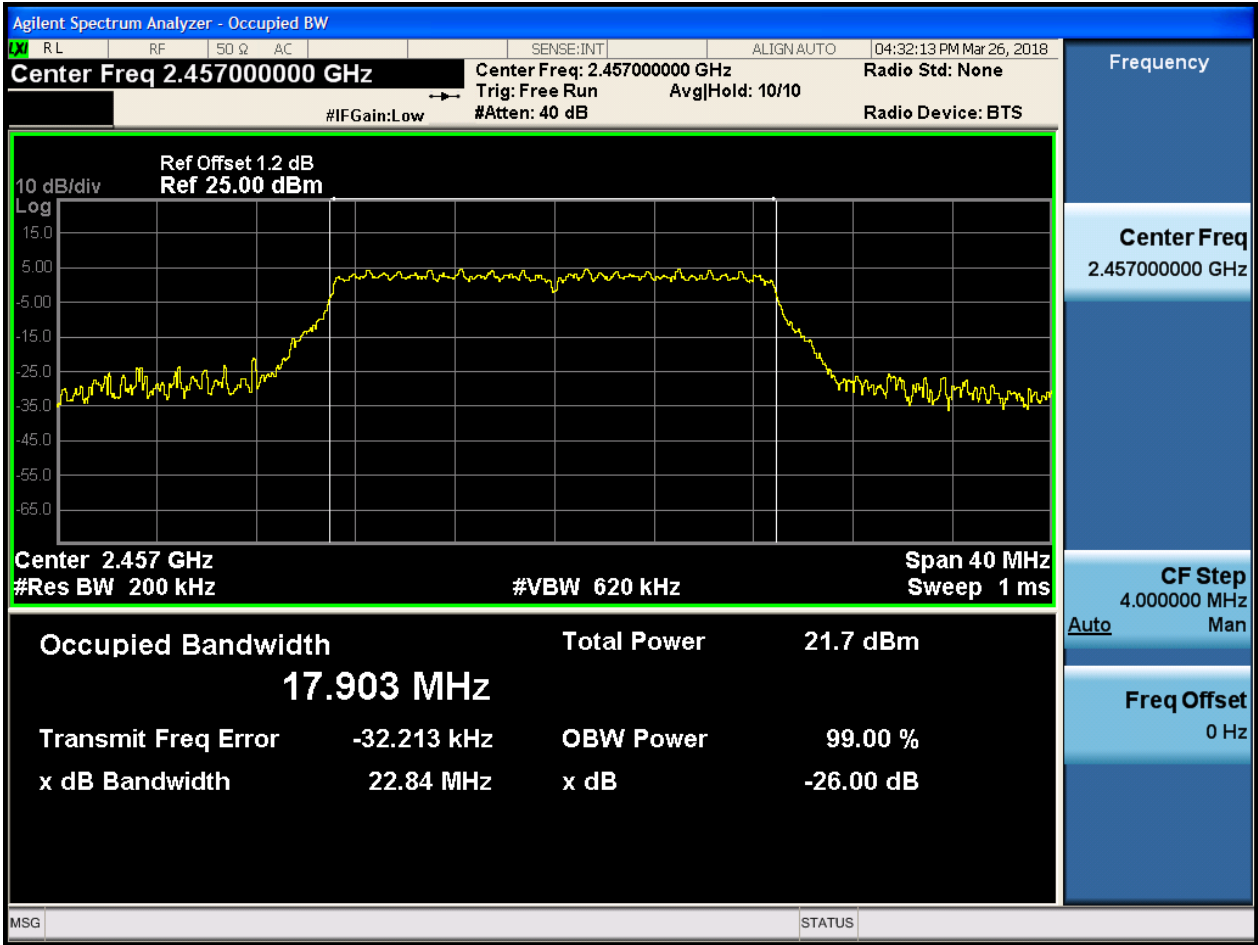


2.38 11N20m\_H\_2462@Ant 1



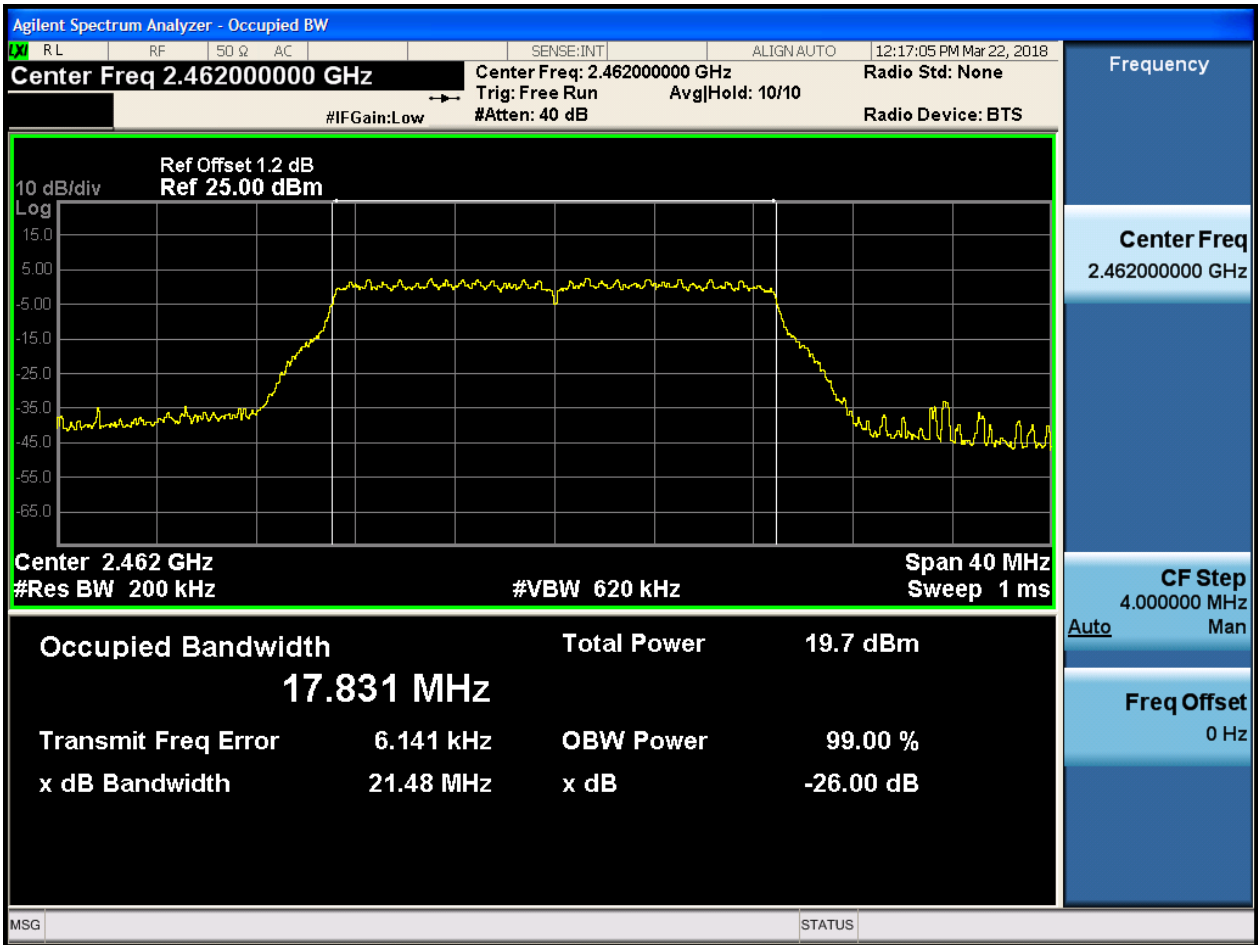


2.39 11N20m\_H\_2457@Ant 2



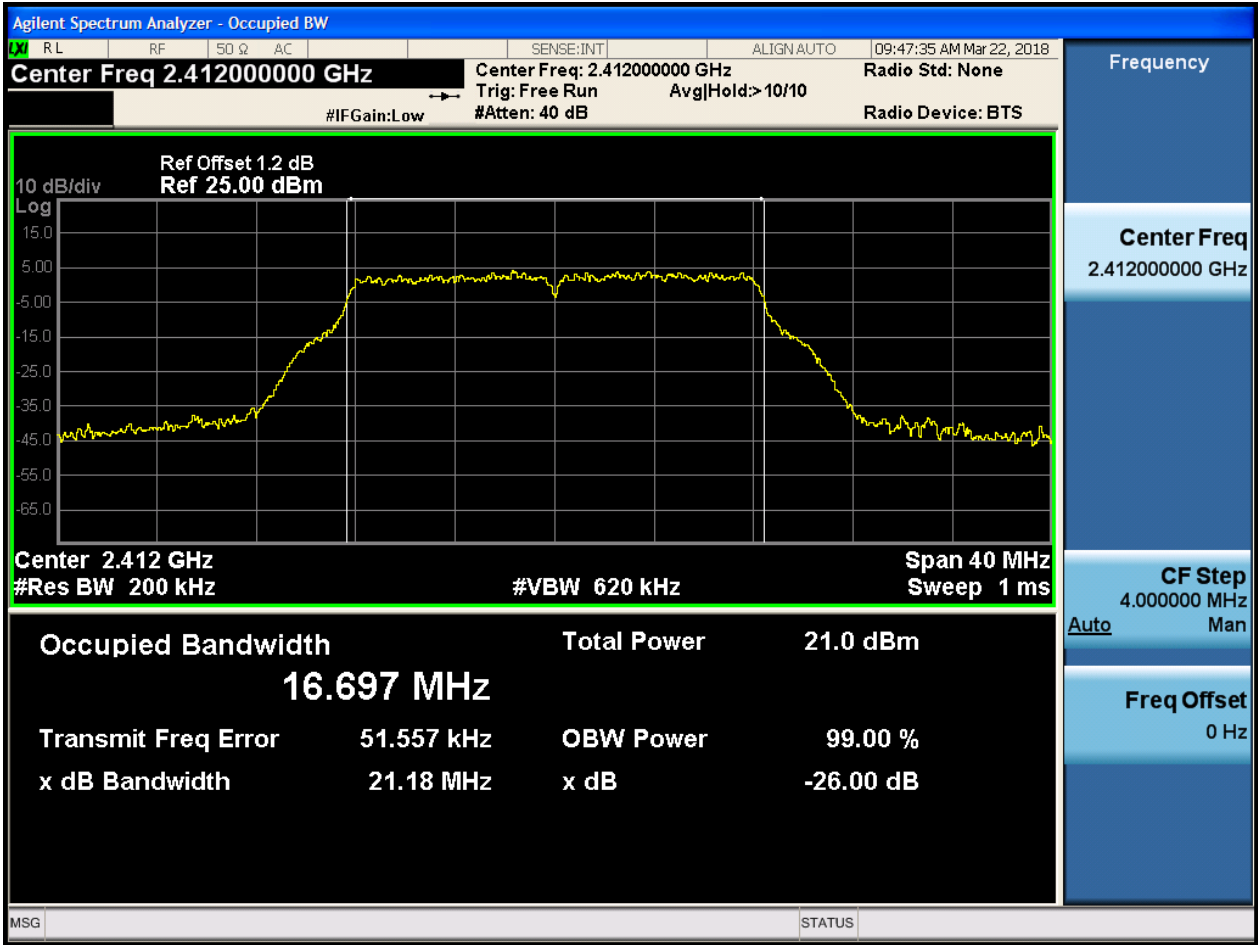


2.40 11N20m\_H\_2462@Ant 2





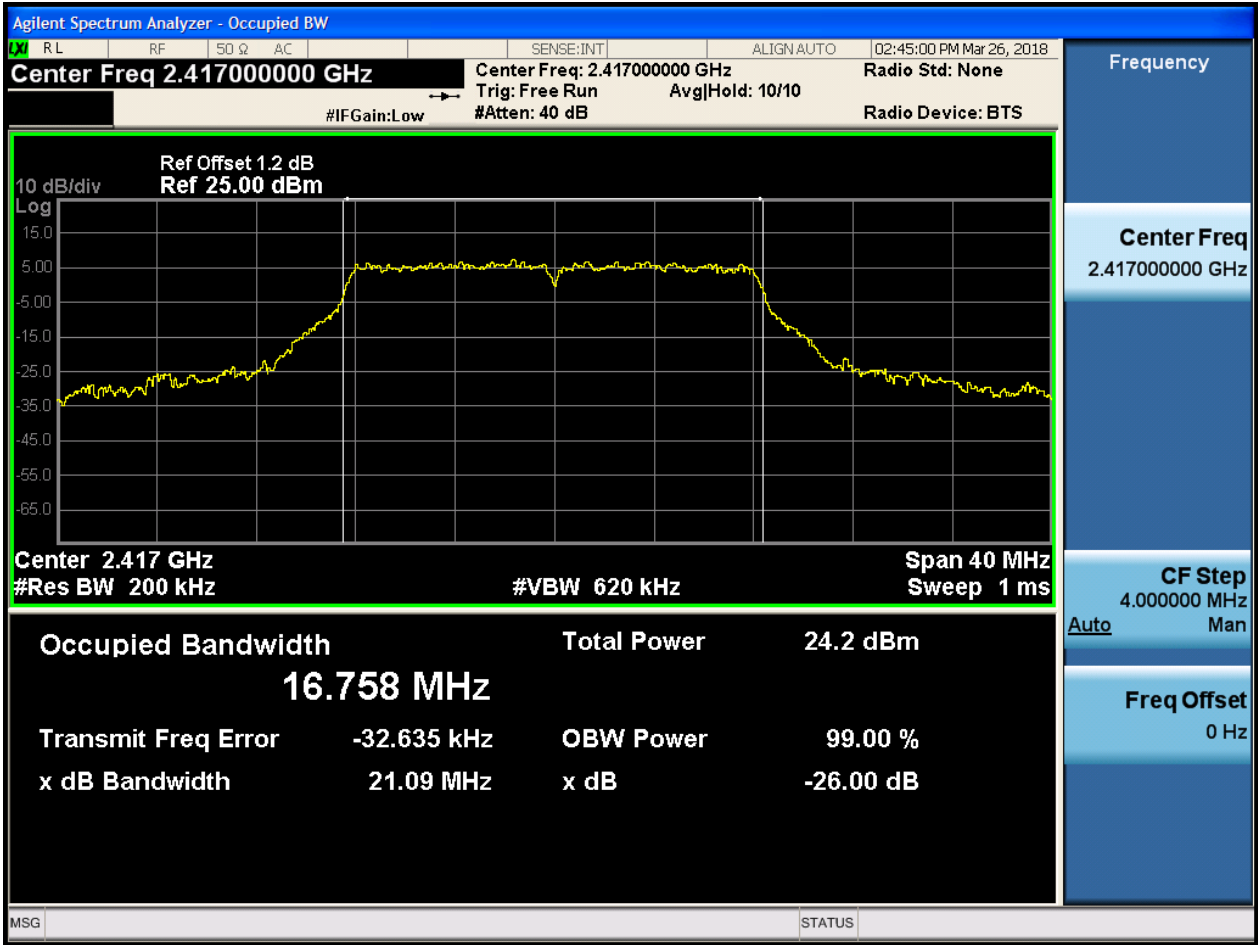
2.41 11G\_CDD\_L\_2412@Ant 1





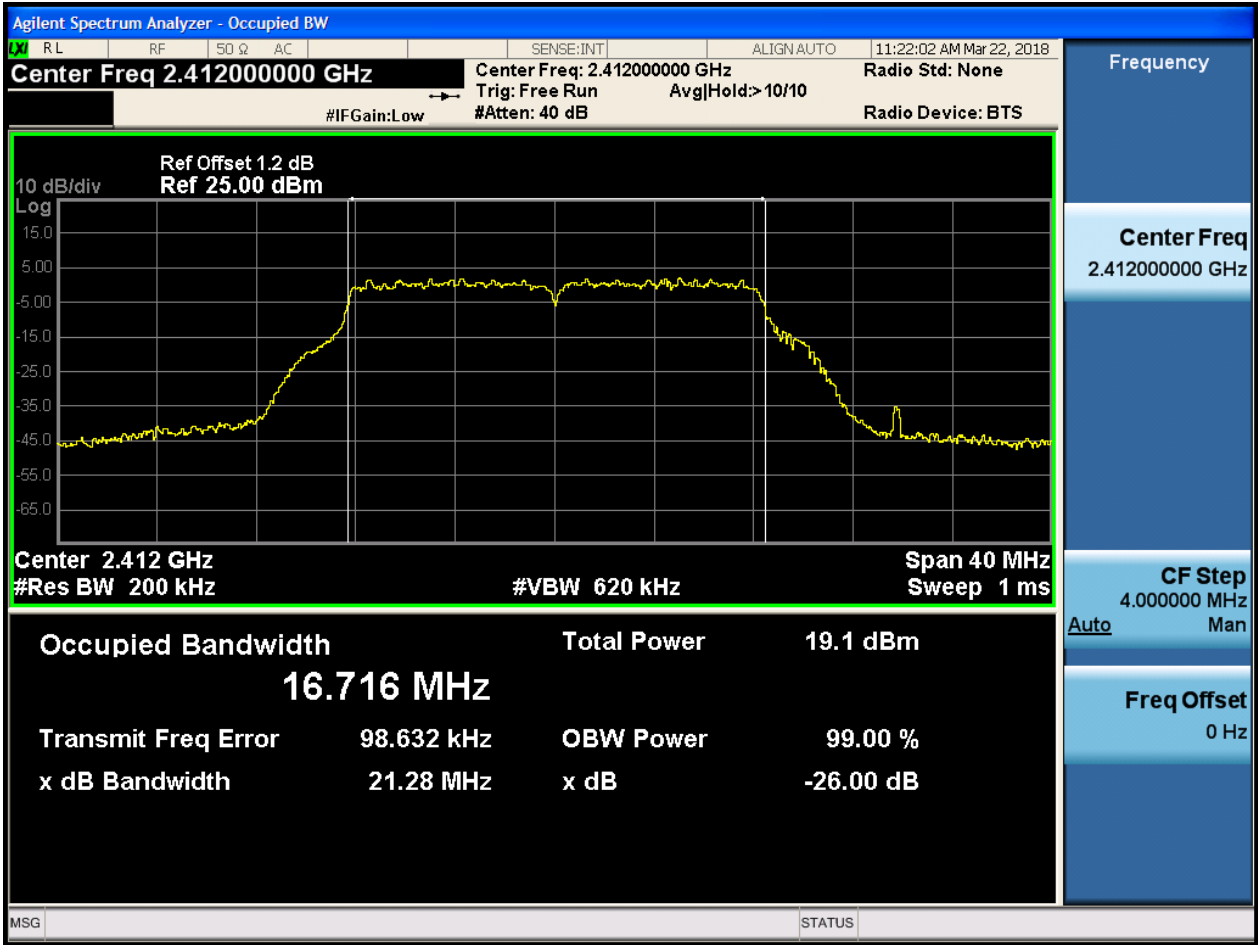


2.42 11G\_CDD\_L\_2417@Ant 1



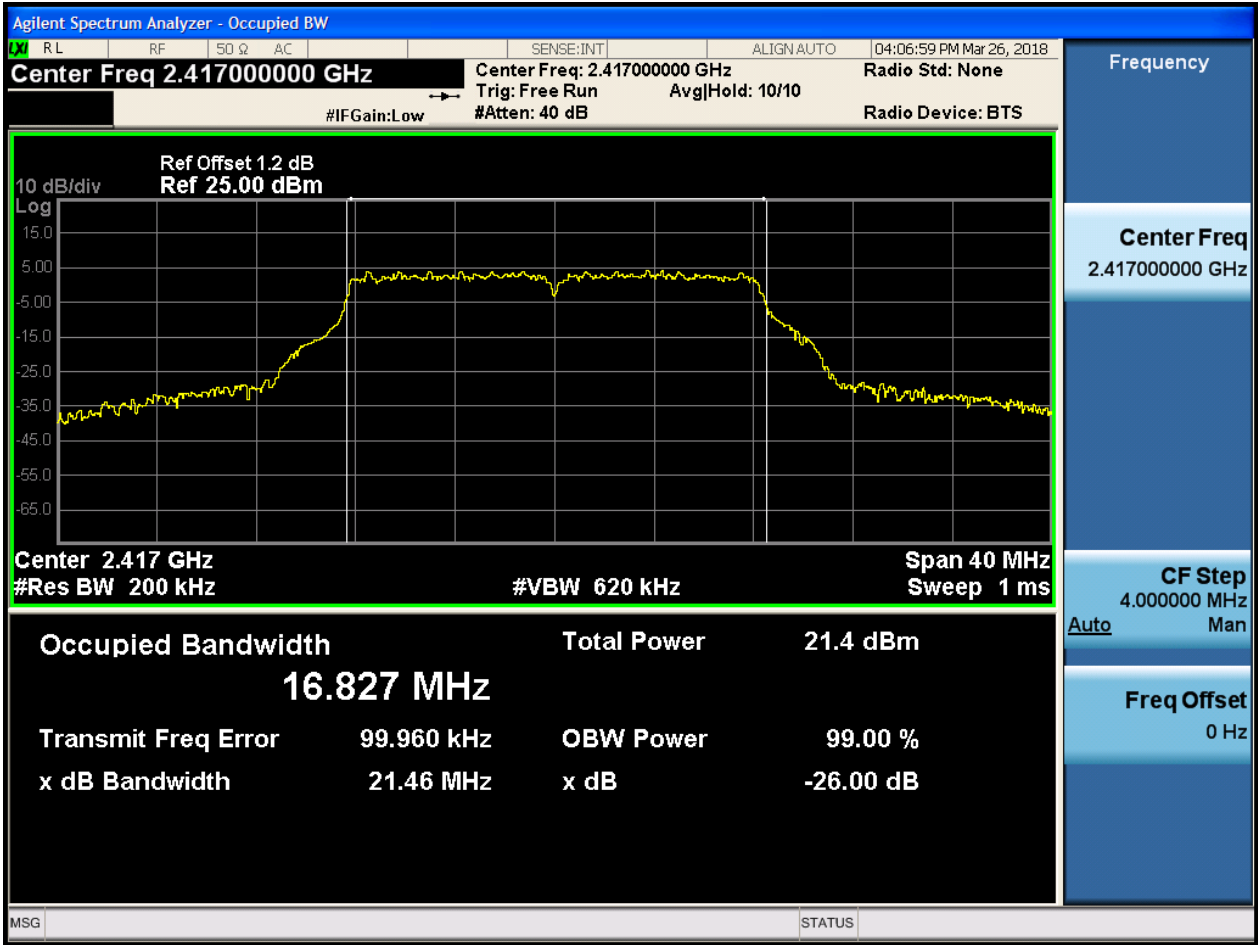


2.43 11G\_CDD\_L\_2412@Ant 2



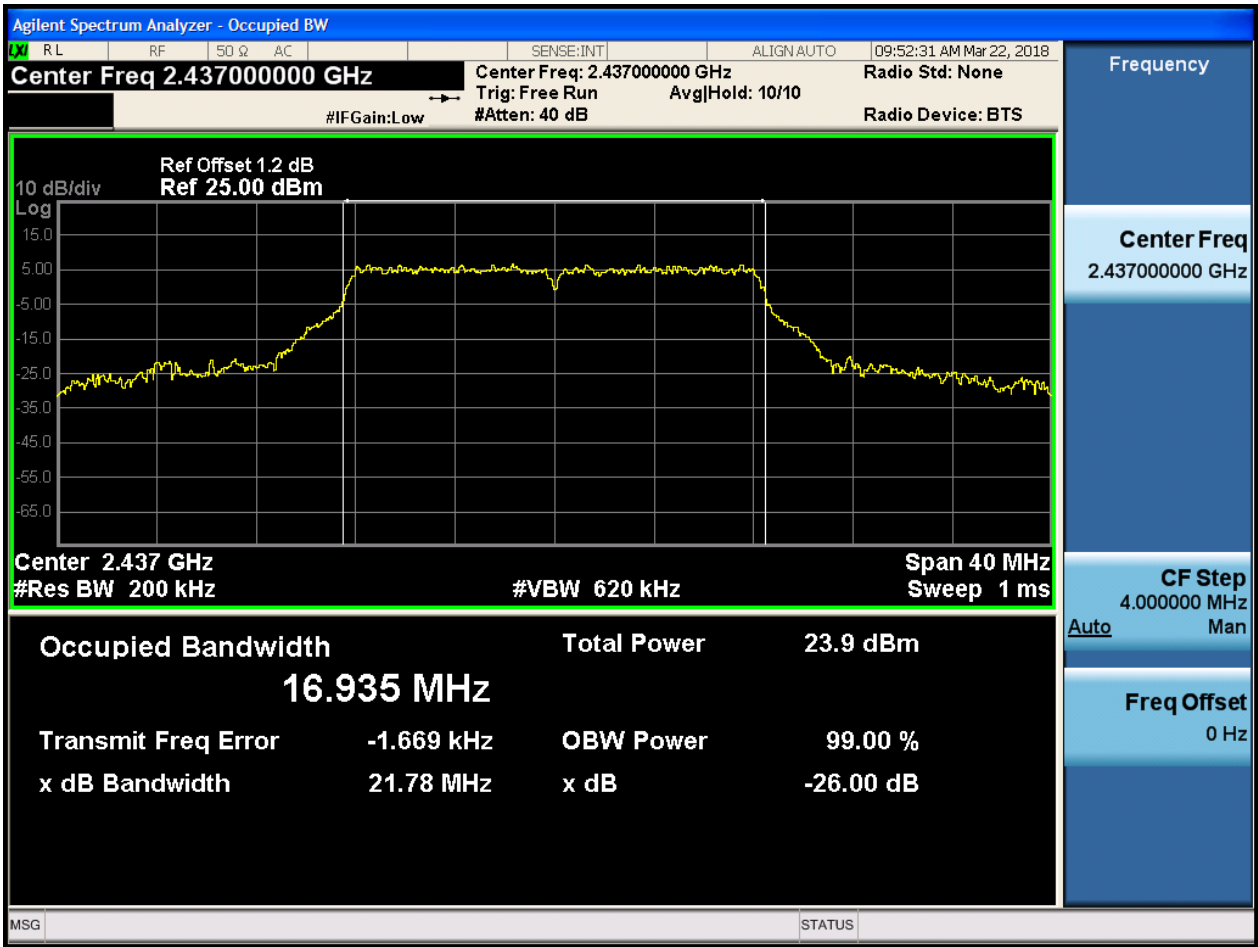


2.44 11G\_CDD\_L\_2417@Ant 2



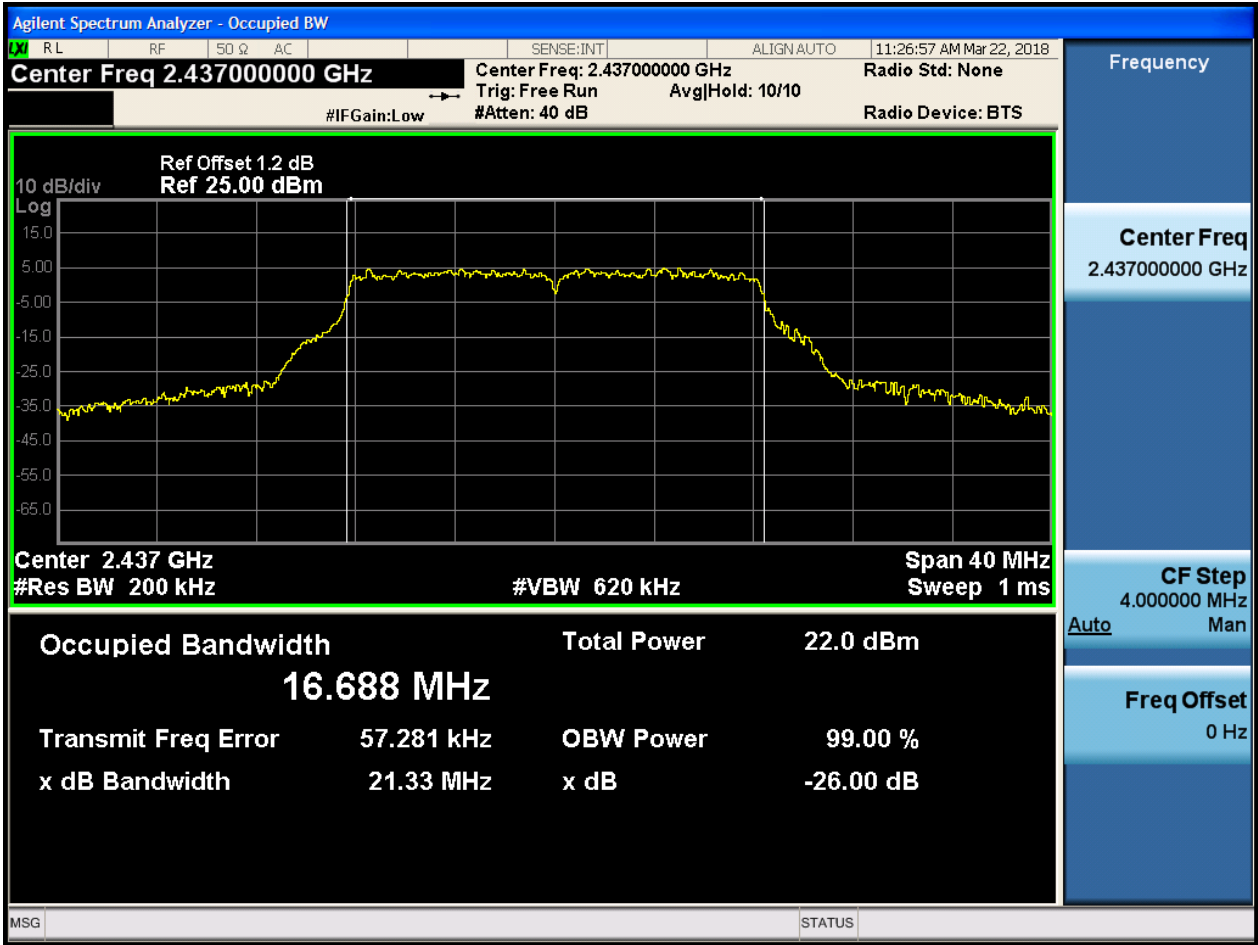


2.45 11G\_CDD\_M@Ant 1



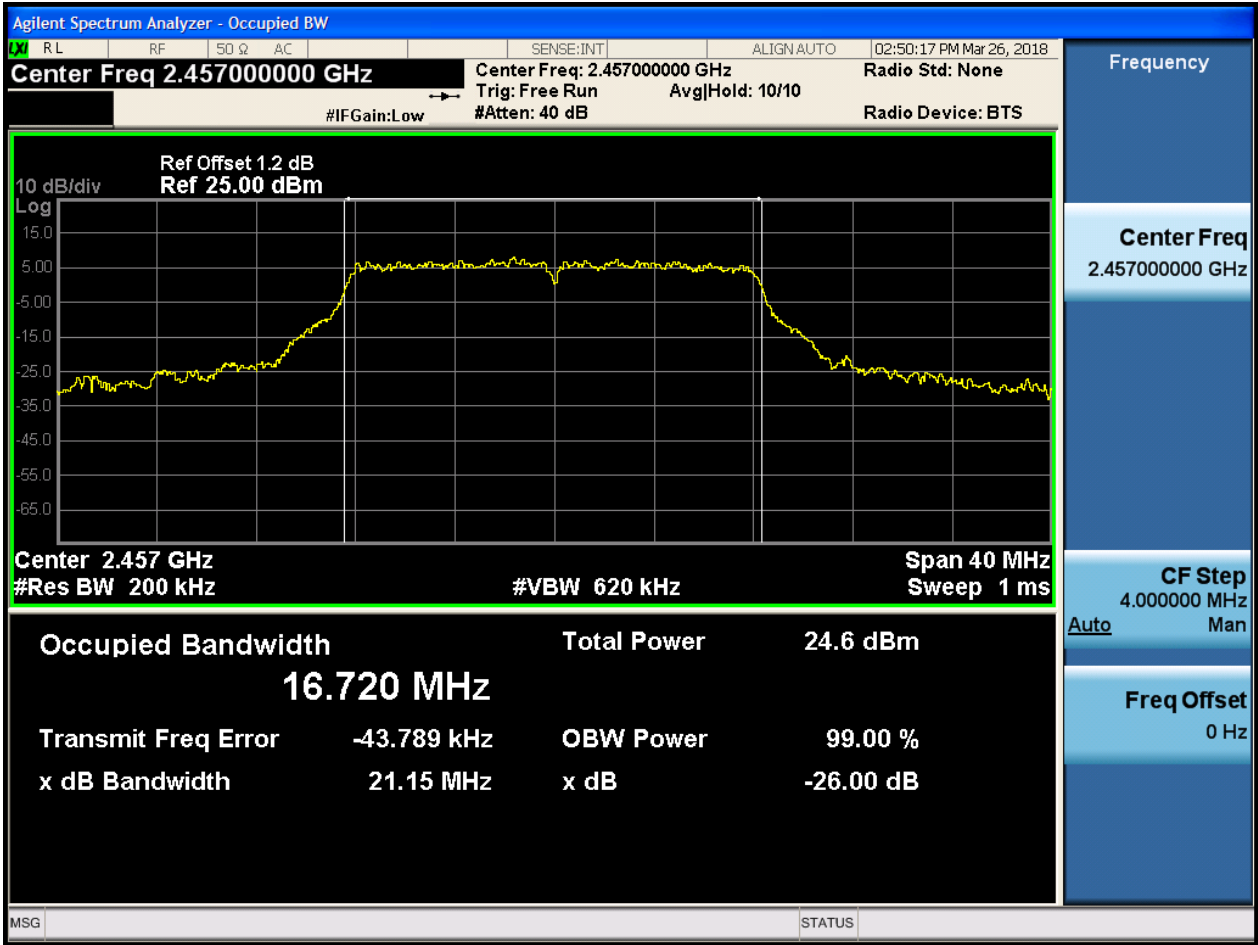


2.46 11G\_CDD\_M@Ant 2



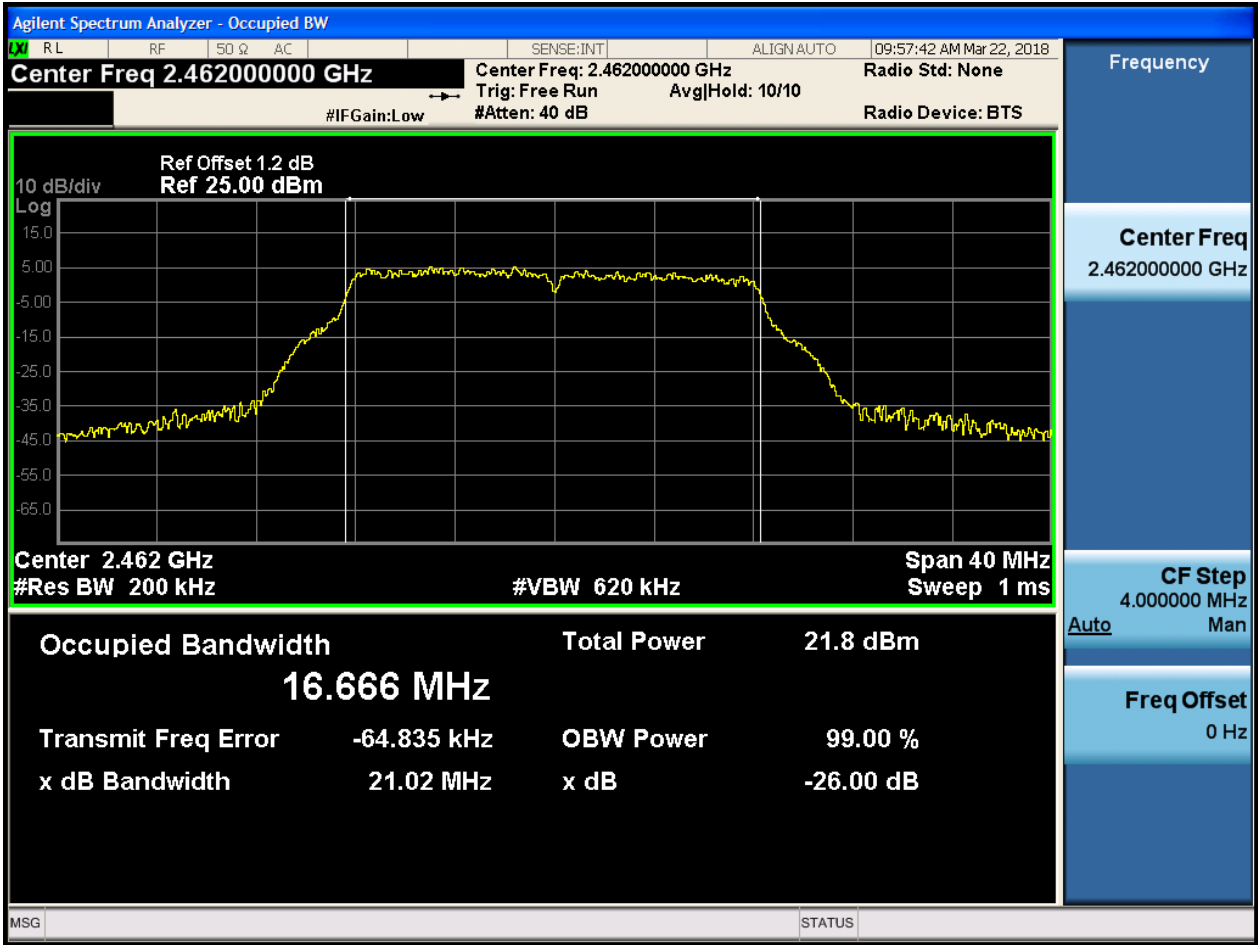


2.47 11G\_CDD\_H\_2457@Ant 1



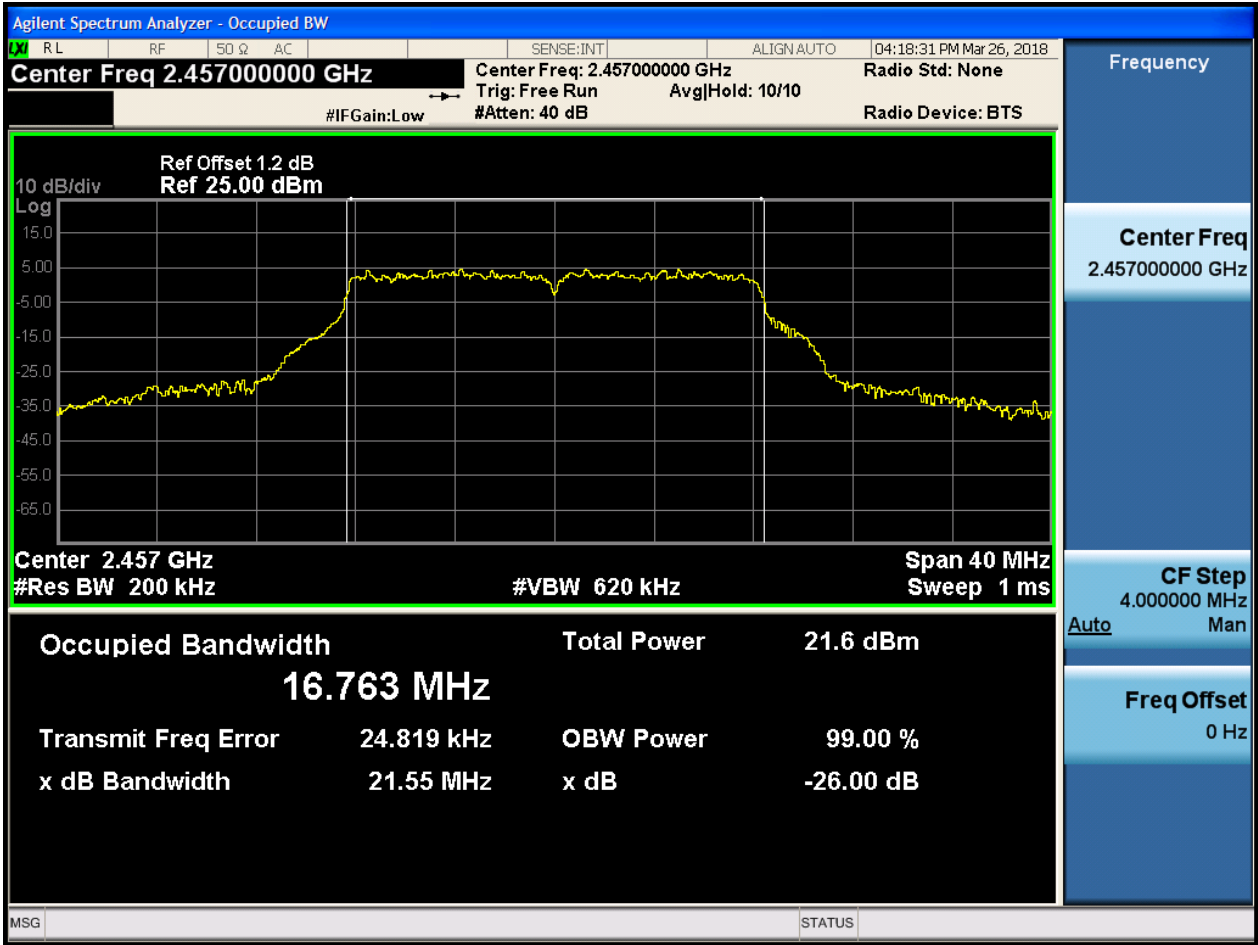


2.48 11G\_CDD\_H\_2462@Ant 1





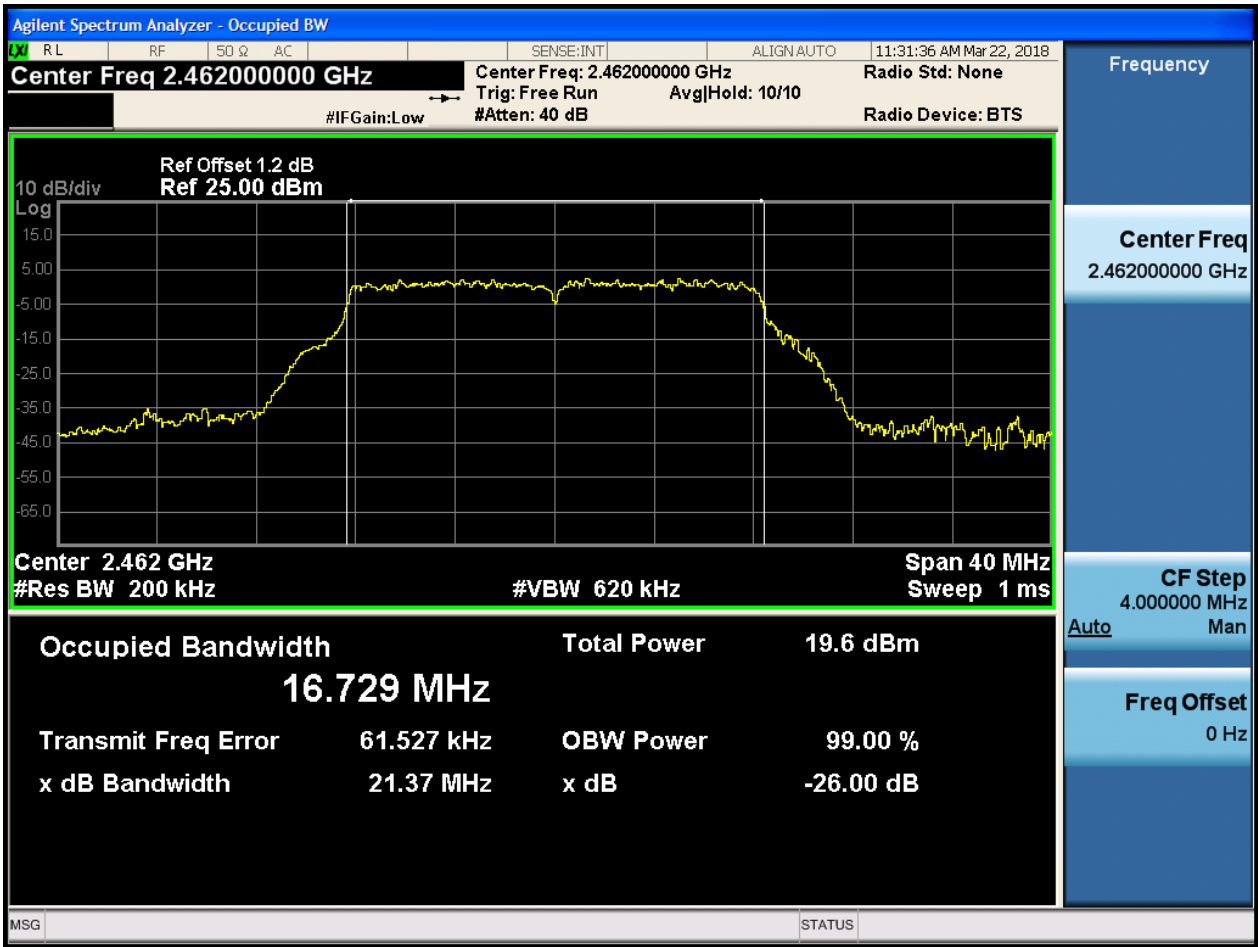
2.49 11G\_CDD\_H\_2457@Ant 2







2.50 11G\_CDD\_H\_2462@Ant 2



## Appendix C: Duty Cycle

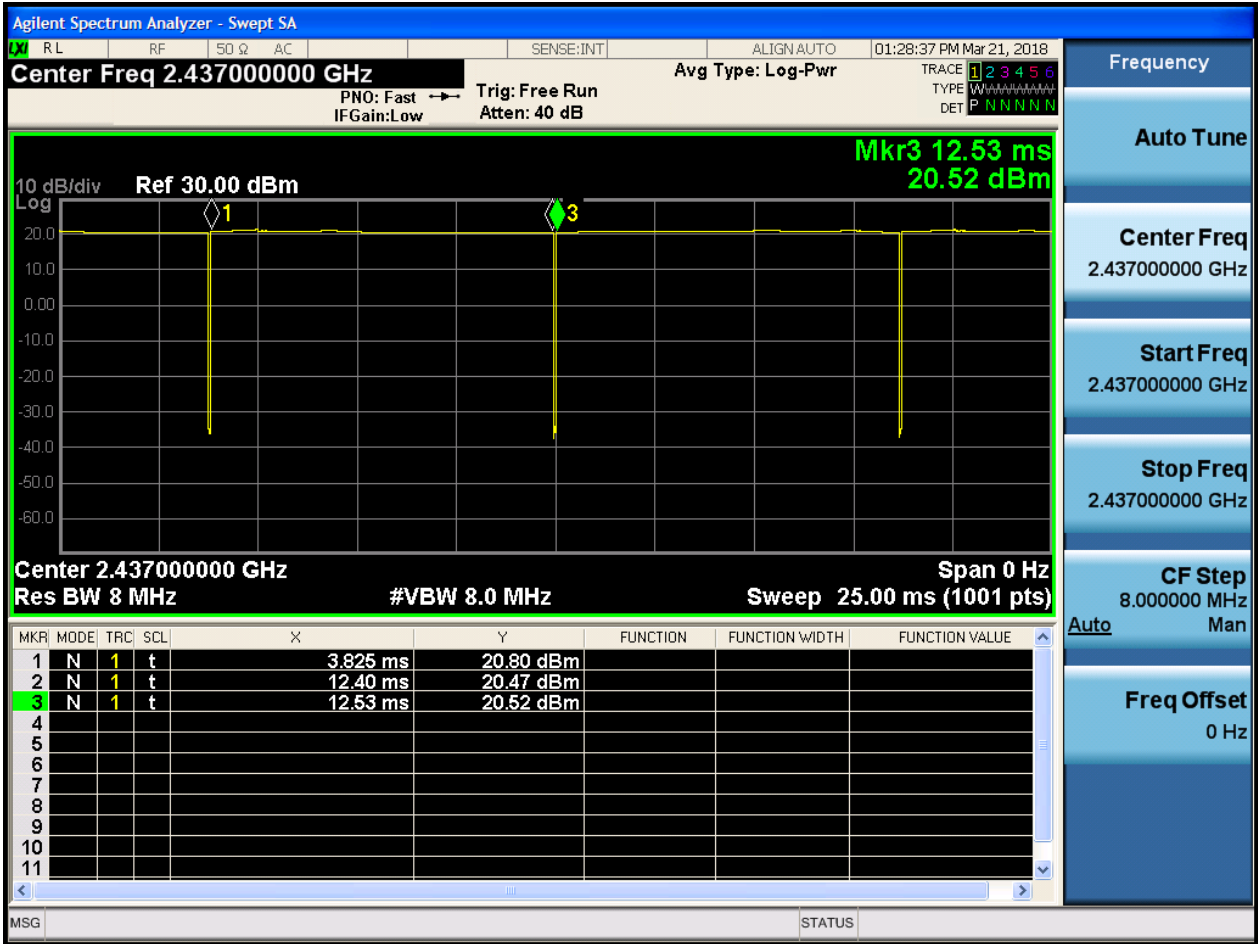
### Part I - Test Results

Test Mode	TX Freq. [MHz]	Ant	Duty cycle [%]
11B	CH1,CH2,CH6,CH10,CH11	Ant 1	98.5
11B	CH1,CH2,CH6,CH10,CH11	Ant 2	98.9
11G	CH1,CH2,CH6,CH10,CH11	Ant 1	93.1
11G	CH1,CH2,CH6,CH10,CH11	Ant 2	93.4
11G CDD	CH1,CH2,CH6,CH10,CH11	Ant 1	93.2
11G CDD	CH1,CH2,CH6,CH10,CH11	Ant 2	93.4
11N20SISO	CH1,CH2,CH6,CH10,CH11	Ant 1	92.7
11N20SISO	CH1,CH2,CH6,CH10,CH11	Ant 2	92.7
11N20MIMO	CH1,CH2,CH6,CH10,CH11	Ant 1	86.6
11N20MIMO	CH1,CH2,CH6,CH10,CH11	Ant 2	86.7



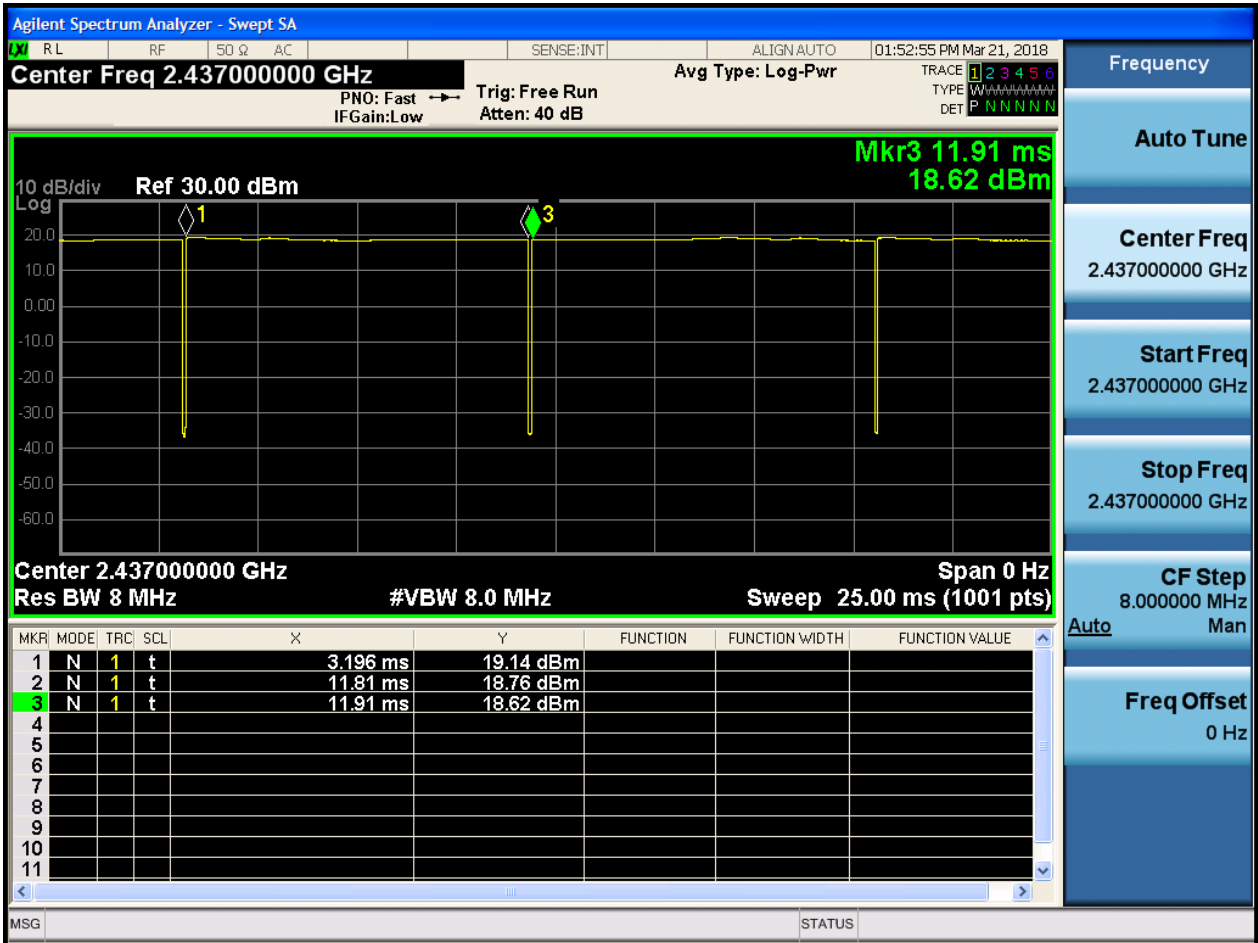
Part II - Test Plots

2.1 11B\_Ant 1

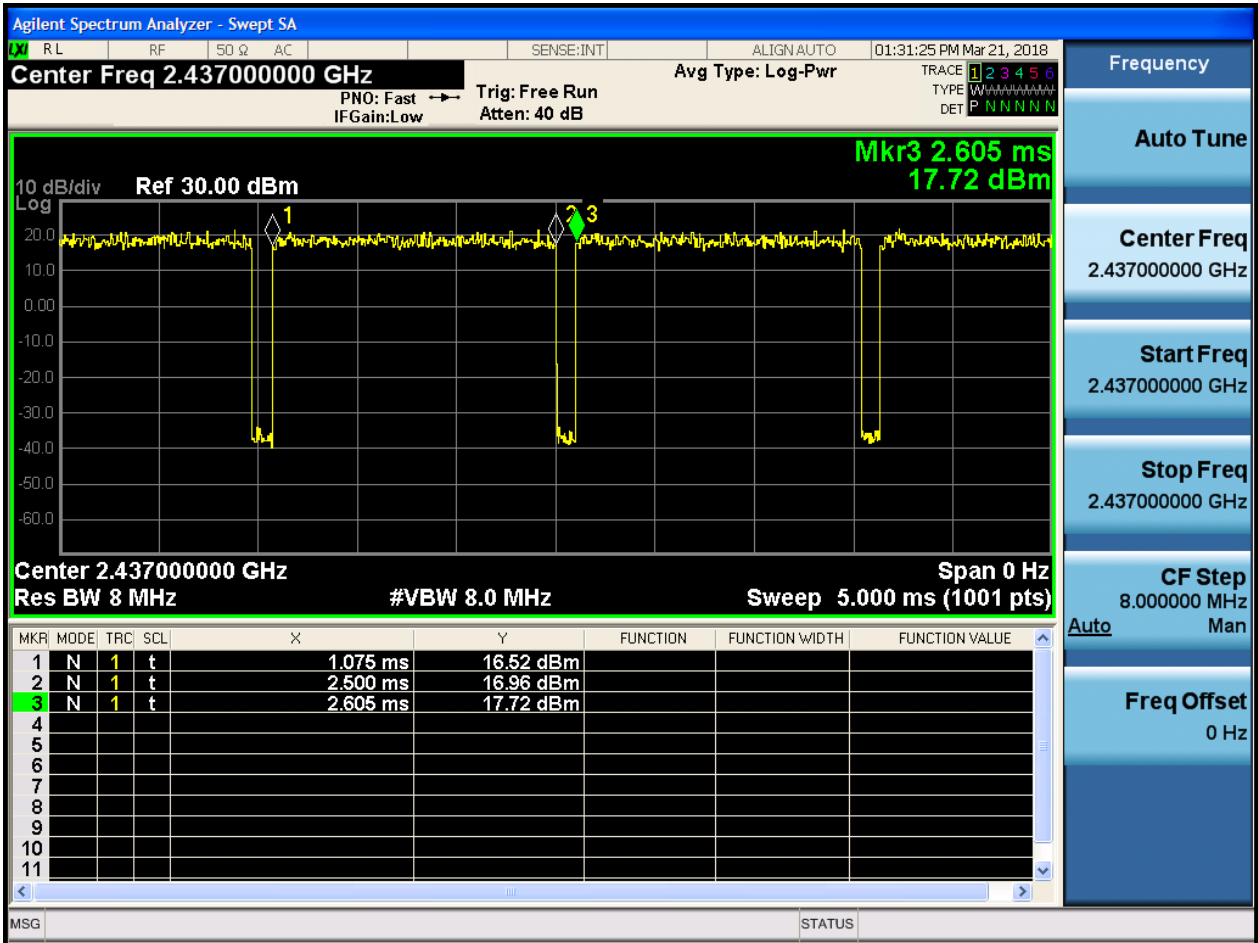




2.2 11B\_Ant 2

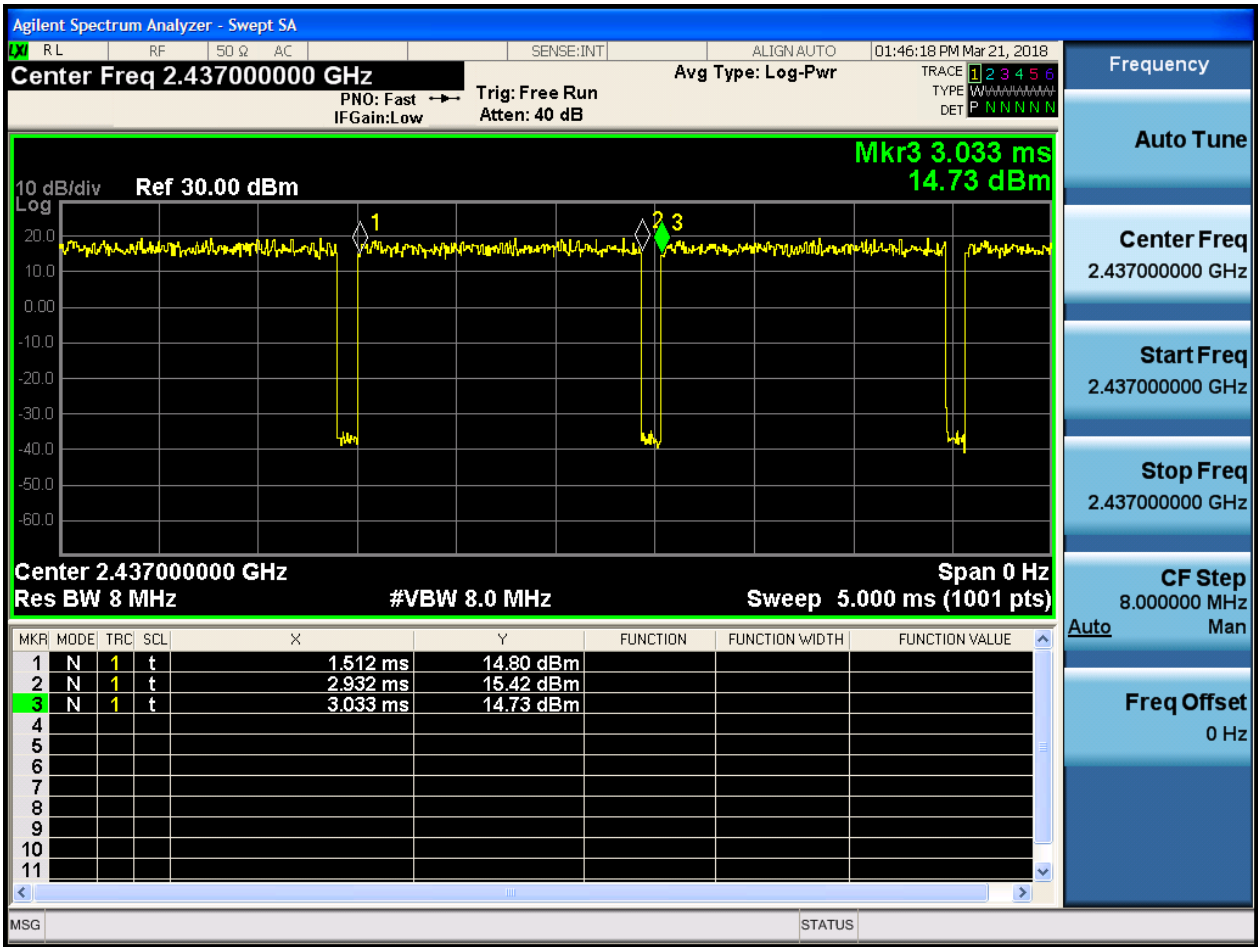


2.3 11G\_Ant 1



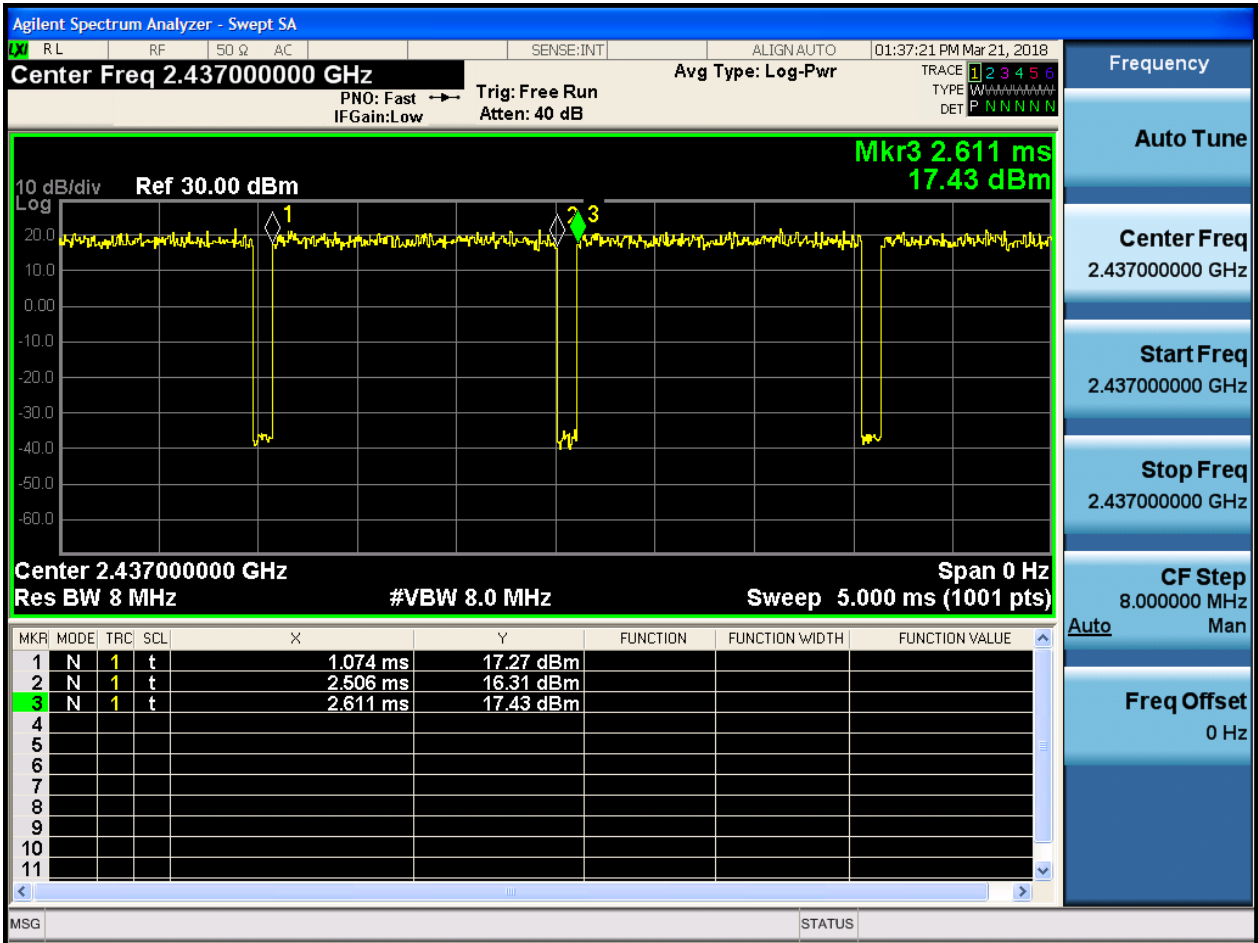


2.4 11G\_Ant 2



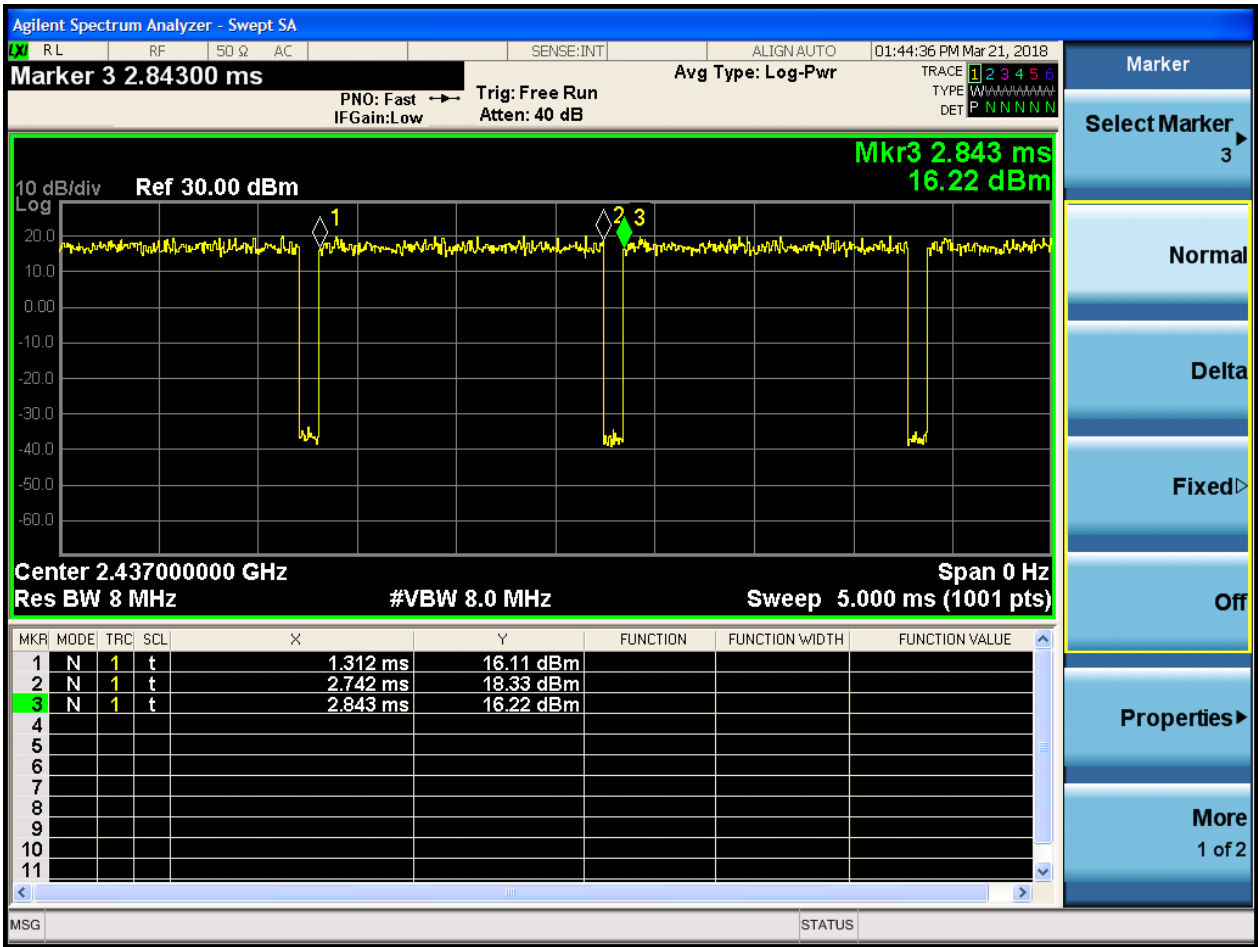


2.5 11GCDD\_Ant 1





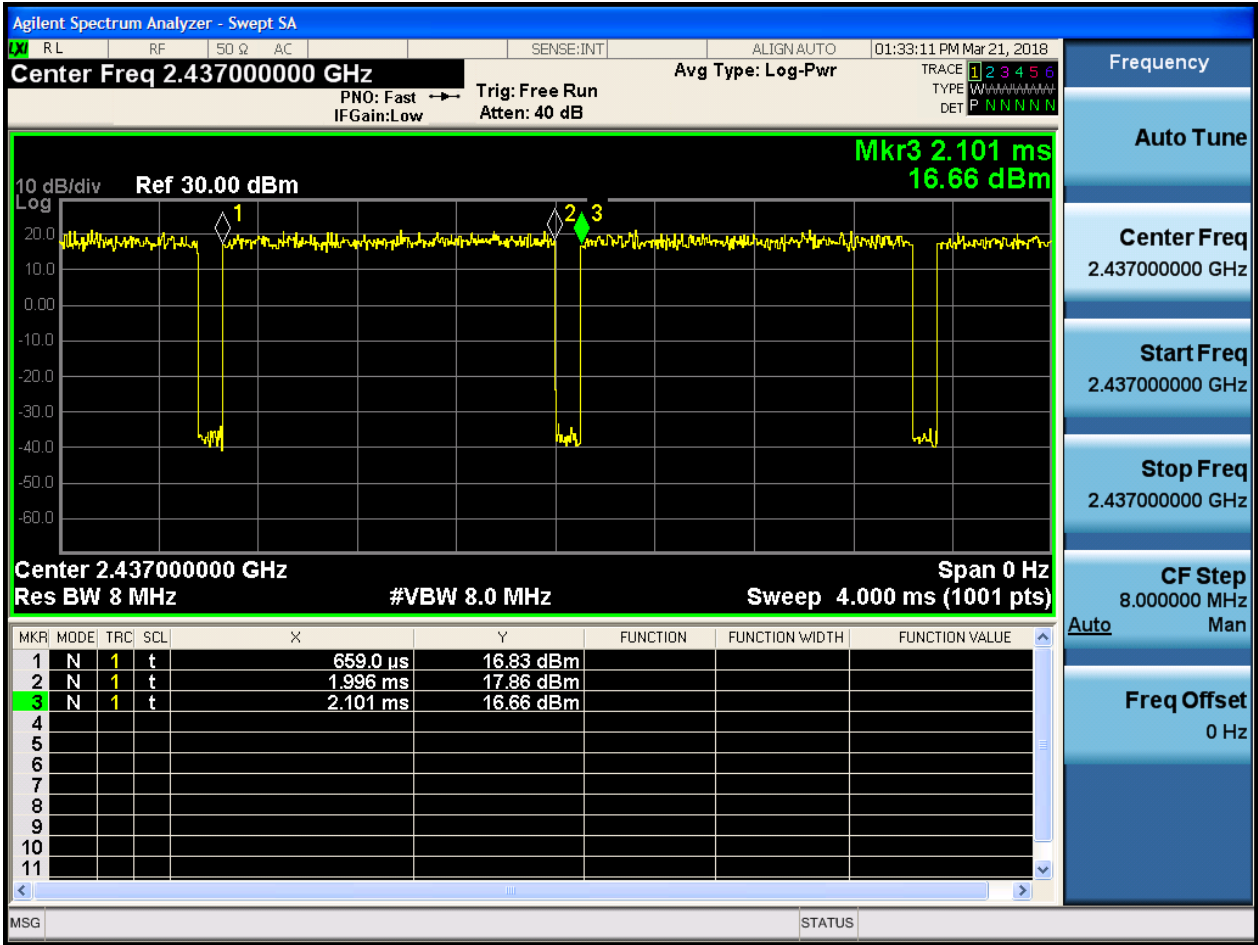
2.6 11GCDD\_Ant 2





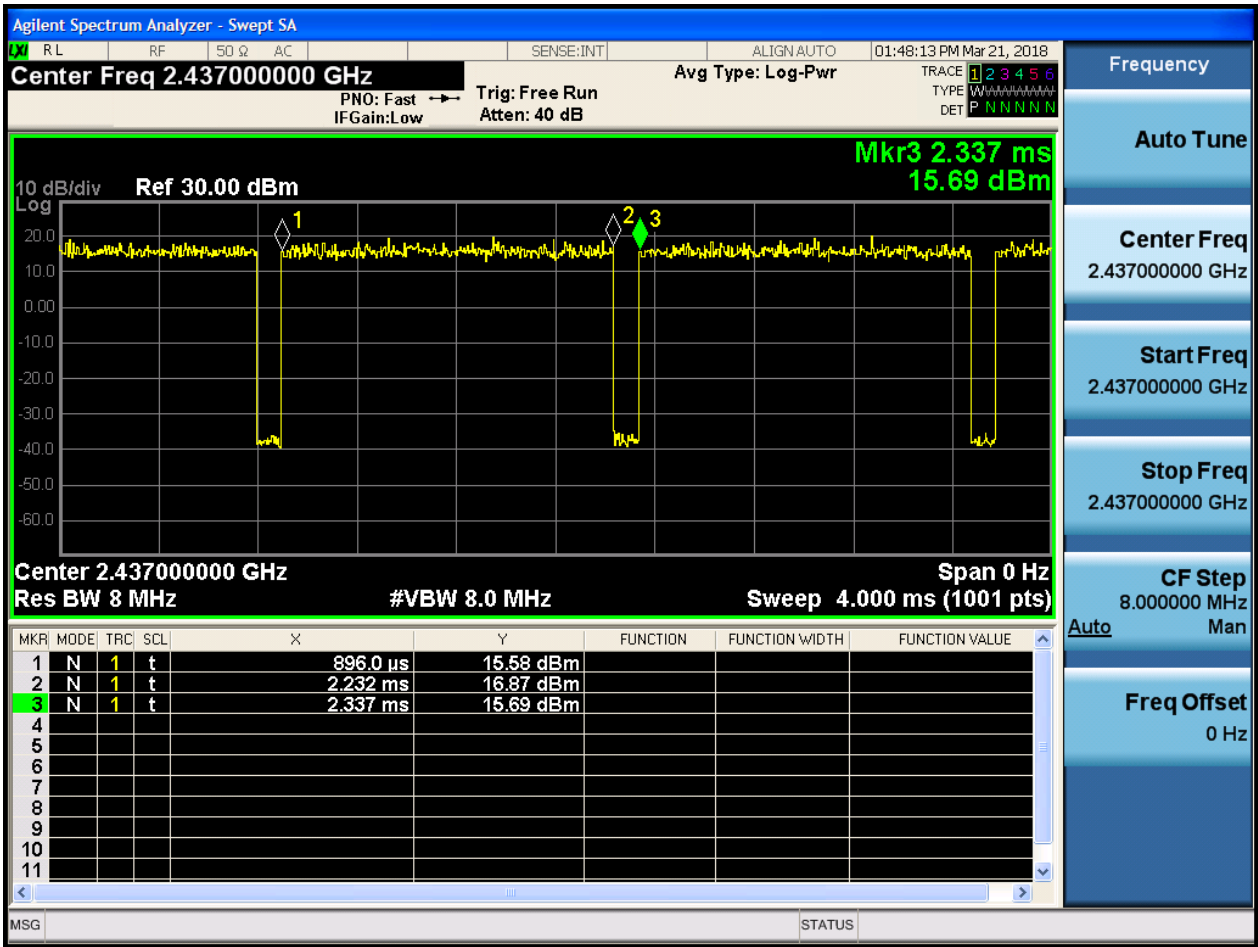


2.7 11N20SISO\_Ant 1



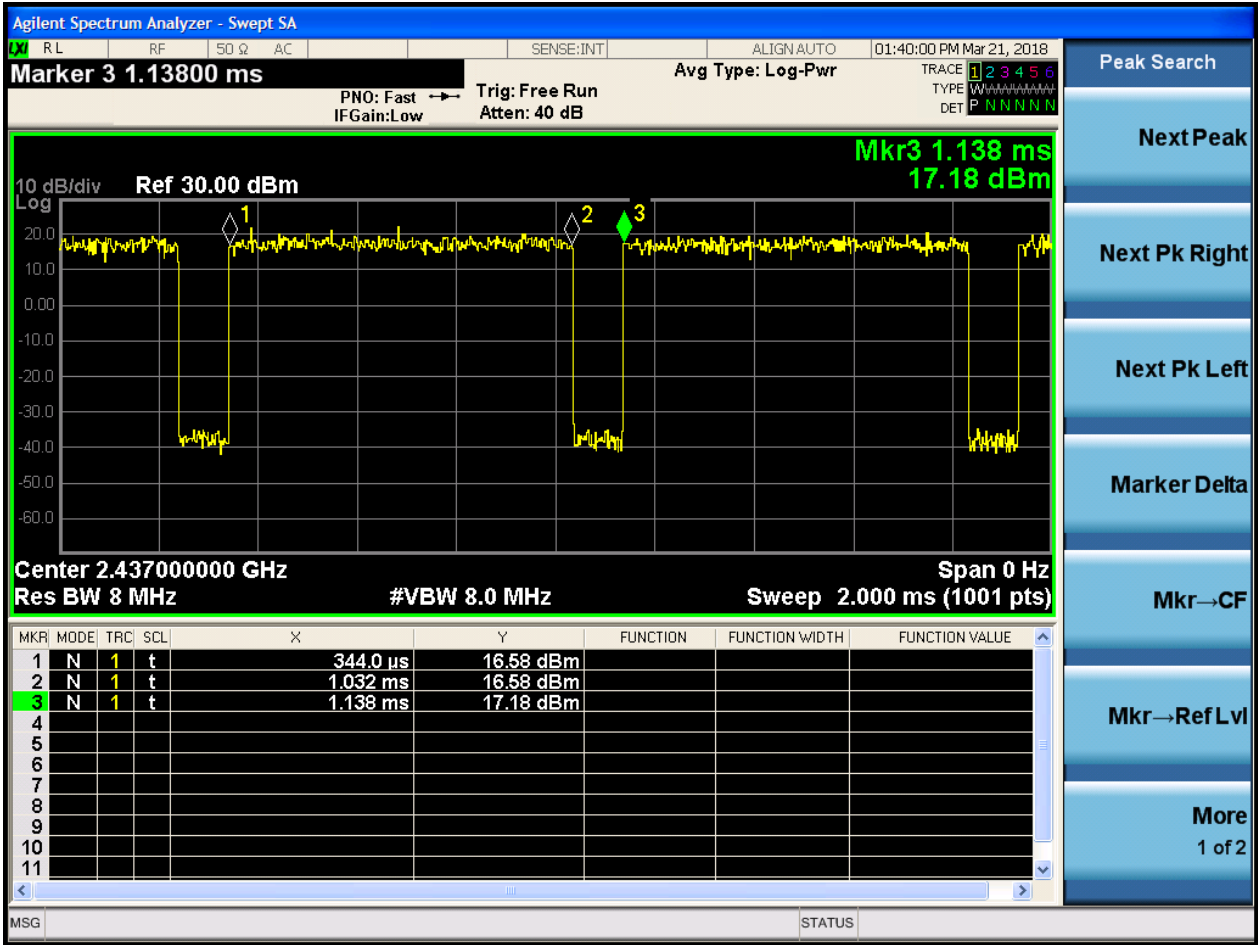


2.8 11N20SISO\_Ant 2



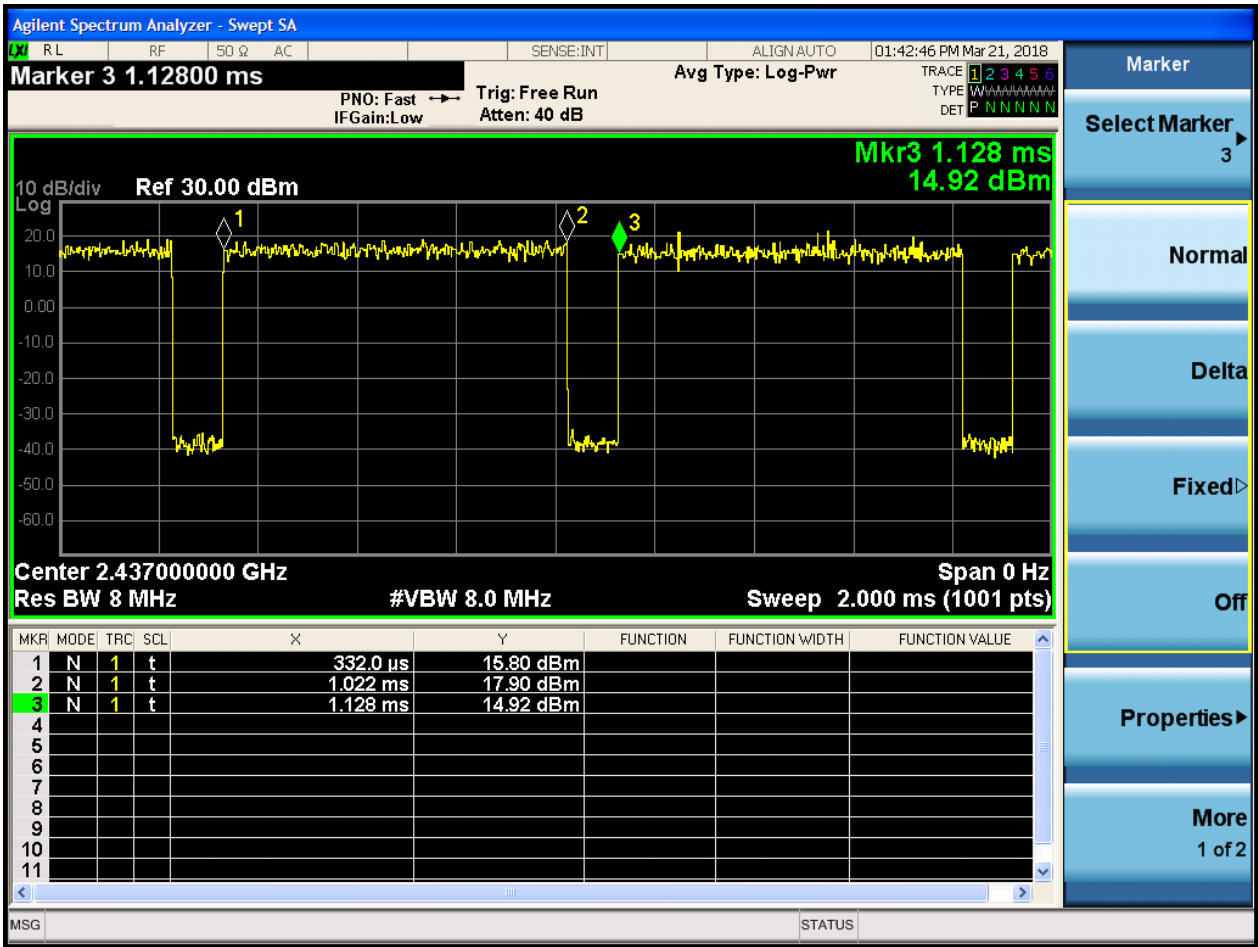


2.9 11N20MIMO\_Ant 1





2.10 11N20MIMO\_Ant 2





## Appendix D: Maximum Conducted Average Output Power

### Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	Power[dBm]	Verdict
11B	L	2412	Ant 1	98.5	14.96	pass
11B	L	2417	Ant 1	98.5	18.43	pass
11B	L	2412	Ant 2	98.9	13.11	pass
11B	L	2417	Ant 2	98.9	15.57	pass
11B	M	2437	Ant 1	98.5	17.84	pass
11B	M	2437	Ant 2	98.9	15.98	pass
11B	H	2457	Ant 1	98.5	18.47	pass
11B	H	2462	Ant 1	98.5	15.70	pass
11B	H	2457	Ant 2	98.9	15.57	pass
11B	H	2462	Ant 2	98.9	13.52	pass
11G	L	2412	Ant 1	93.1	14.00	pass
11G	L	2417	Ant 1	93.1	17.28	pass
11G	L	2412	Ant 2	93.4	12.20	pass
11G	L	2417	Ant 2	93.4	14.37	pass
11G	M	2437	Ant 1	93.1	16.85	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	Power[dBm]	Verdict
11G	M	2437	Ant 2	93.4	14.73	pass
11G	H	2457	Ant 1	93.1	17.45	pass
11G	H	2462	Ant 1	93.1	14.79	pass
11G	H	2457	Ant 2	93.4	15.13	pass
11G	H	2462	Ant 2	93.4	12.75	pass
11N20	L	2412	Ant 1	92.7	14.03	pass
11N20	L	2417	Ant 1	92.7	17.14	pass
11N20	L	2412	Ant 2	92.7	12.25	pass
11N20	L	2417	Ant 2	92.7	14.20	pass
11N20	M	2437	Ant 1	92.7	16.78	pass
11N20	M	2437	Ant 2	92.7	14.72	pass
11N20	H	2457	Ant 1	92.7	17.43	pass
11N20	H	2462	Ant 1	92.7	14.84	pass
11N20	H	2457	Ant 2	92.7	14.58	pass
11N20	H	2462	Ant 2	92.7	12.63	pass
11N20m	L	2412	Ant 1	86.6	14.14	pass
11N20m	L	2412	Ant 2	86.7	12.51	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	Power[dBm]	Verdict
11N20m	L	2412	SUM	--	16.41	pass
11N20m	L	2417	Ant 1	86.6	17.28	pass
11N20m	L	2417	Ant 2	86.7	14.63	pass
11N20m	L	2417	SUM	--	19.16	pass
11N20m	M	2437	Ant 1	86.6	17.08	pass
11N20m	M	2437	Ant 2	86.7	15.29	pass
11N20m	M	2437	SUM	--	19.29	pass
11N20m	H	2457	Ant 1	86.6	17.67	pass
11N20m	H	2457	Ant 2	86.7	14.94	pass
11N20m	H	2457	SUM	--	19.52	pass
11N20m	H	2462	Ant 1	86.6	15.01	pass
11N20m	H	2462	Ant 2	86.7	12.94	pass
11N20m	H	2462	SUM	--	17.11	pass
11G CDD	L	2412	Ant 1	93.2	14.11	pass
11G CDD	L	2412	Ant 2	93.4	12.36	pass
11G CDD	L	2412	SUM	--	16.33	pass
11G CDD	L	2417	Ant 1	93.2	17.24	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	Power[dBm]	Verdict
11G CDD	L	2417	Ant 2	93.4	14.54	pass
11G CDD	L	2417	SUM	--	19.11	pass
11G CDD	M	2437	Ant 1	93.2	16.95	pass
11G CDD	M	2437	Ant 2	93.4	15.20	pass
11G CDD	M	2437	SUM	--	19.17	pass
11G CDD	H	2457	Ant 1	93.2	17.57	pass
11G CDD	H	2457	Ant 2	93.4	14.73	pass
11G CDD	H	2457	SUM	--	19.39	pass
11G CDD	H	2462	Ant 1	93.2	14.99	pass
11G CDD	H	2462	Ant 2	93.4	12.99	pass
11G CDD	H	2462	SUM	--	17.12	pass





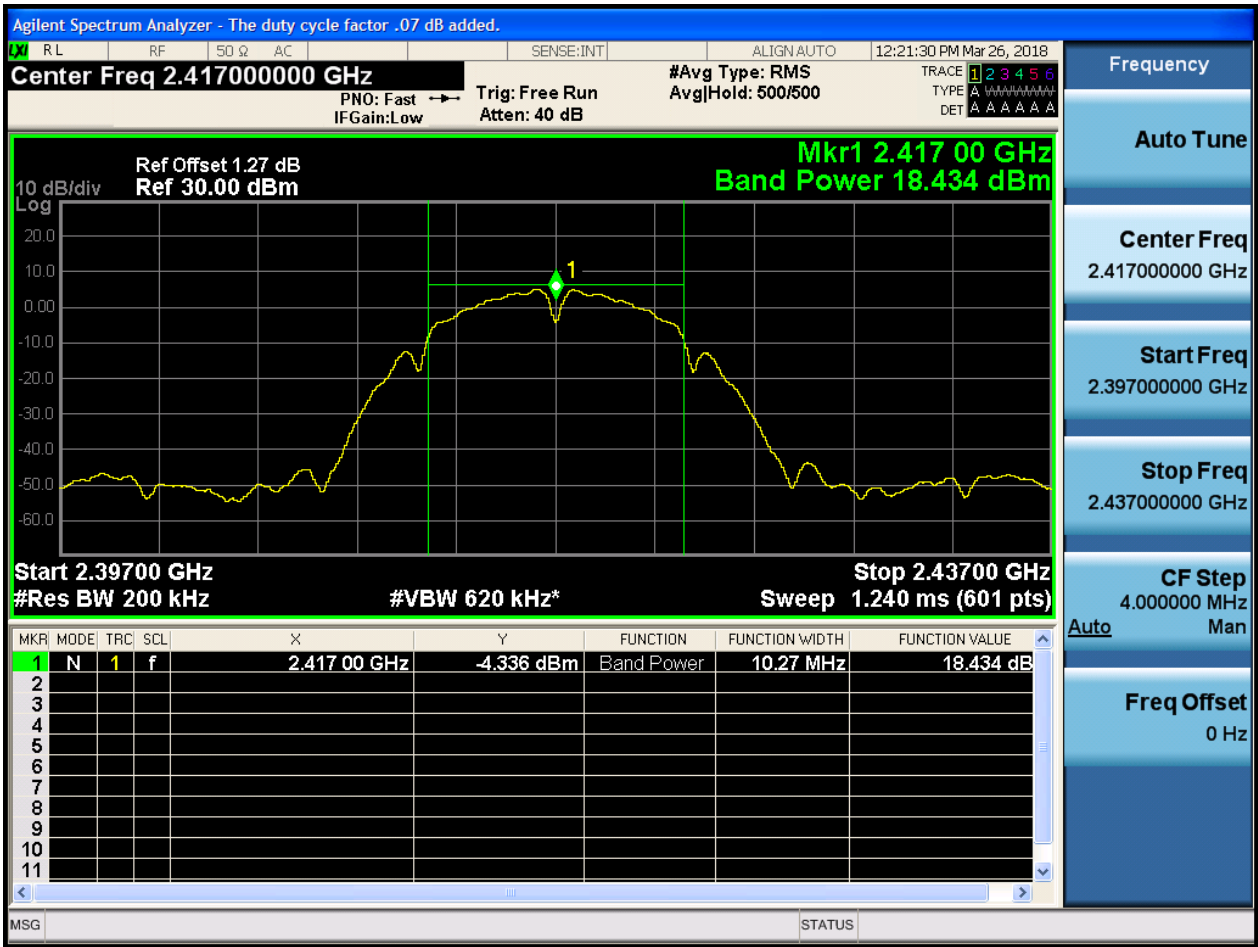
Part II - Test Plots

2.1 11B\_L\_2412@Ant 1



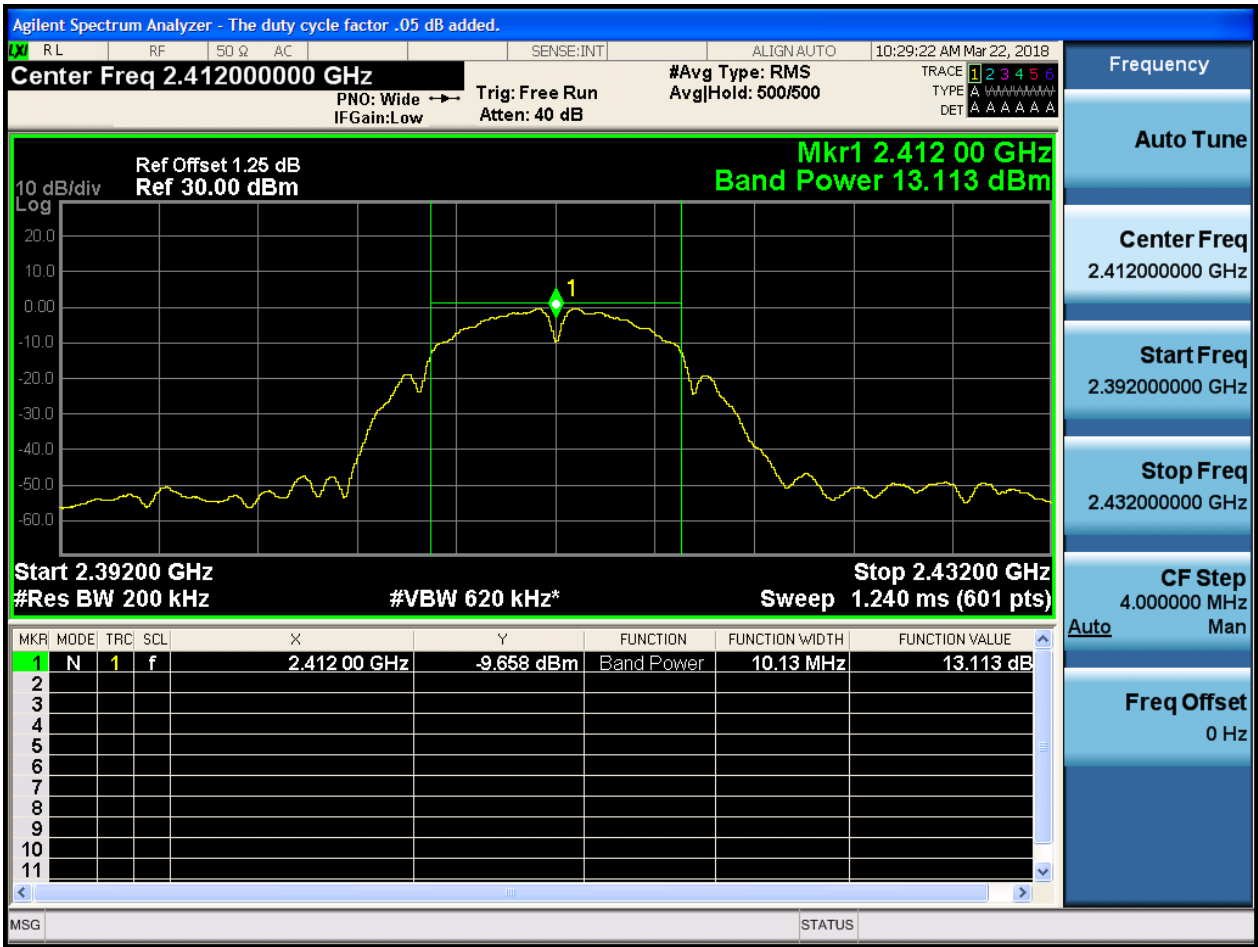


2.2 11B\_L\_2417@Ant 1



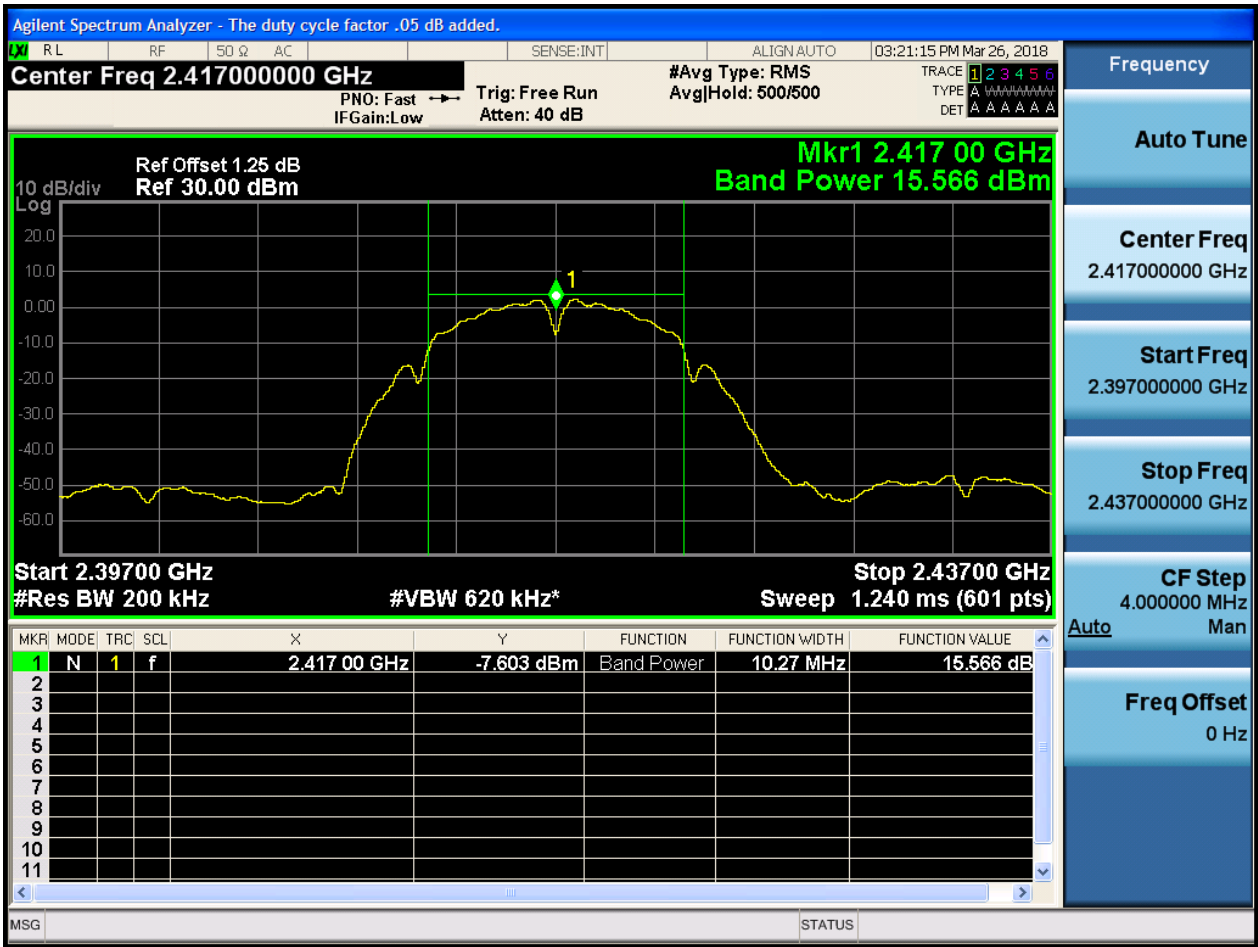


2.3 11B\_L\_2412@Ant 2



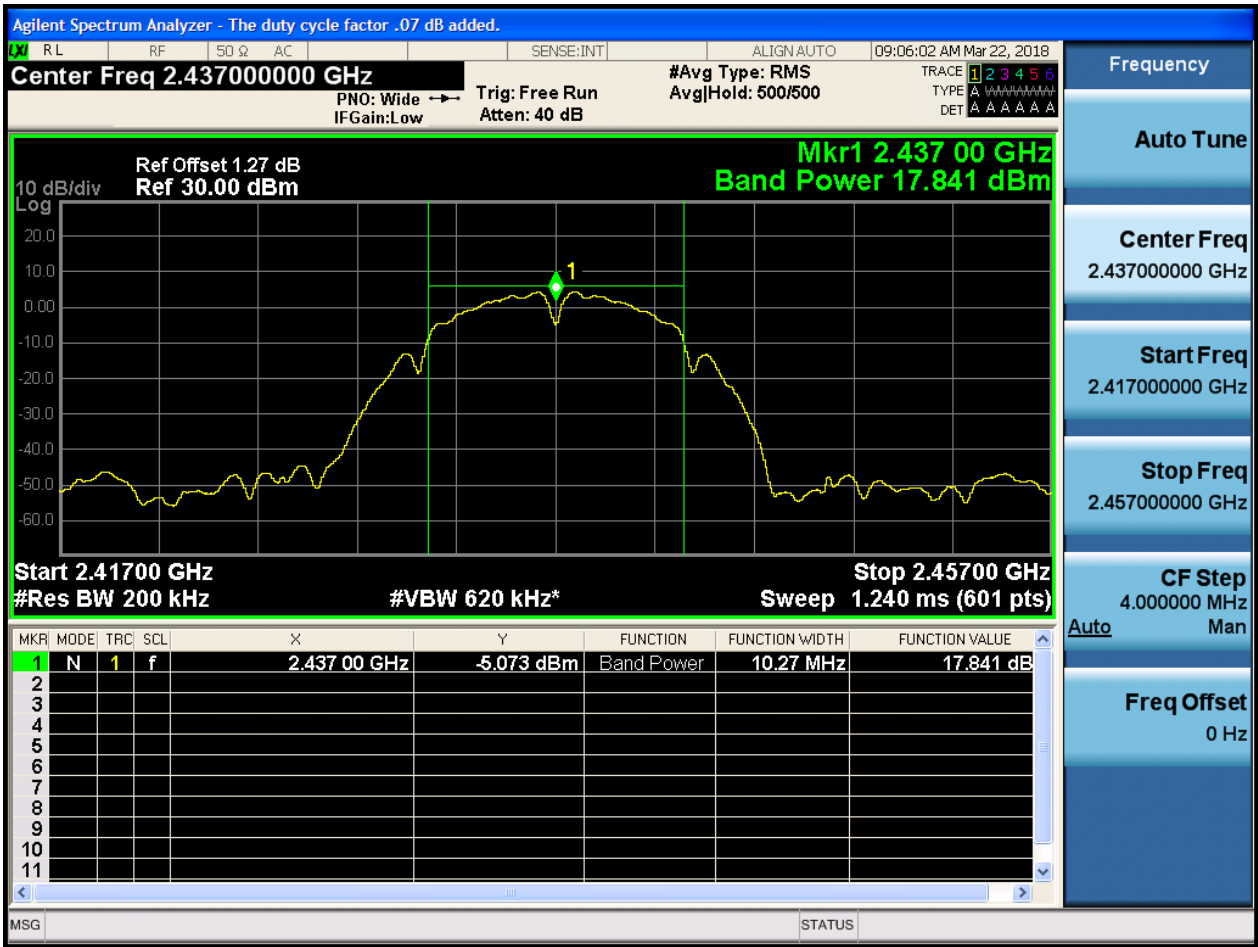


2.4 11B\_L\_2417@Ant 2



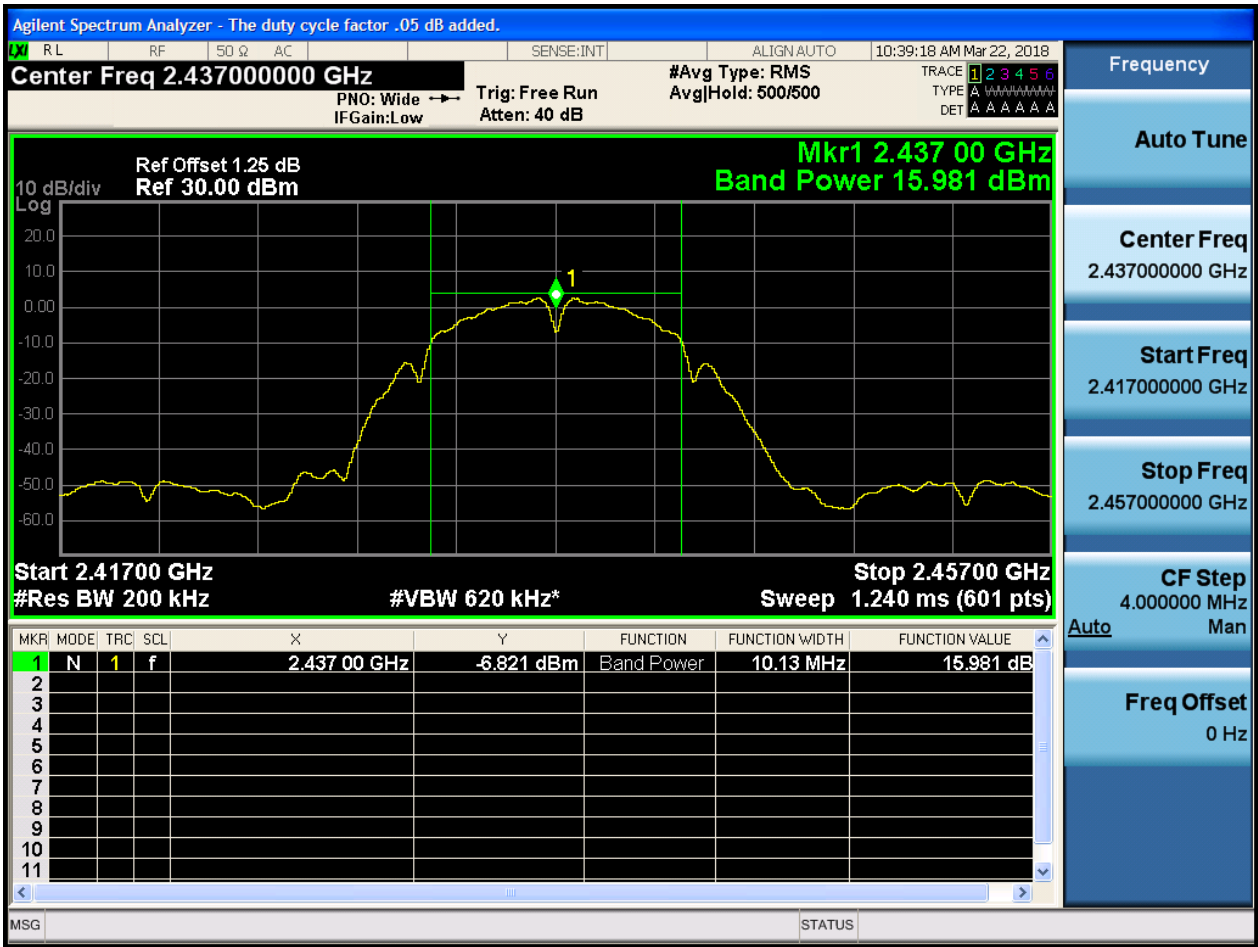


2.5 11B\_M@Ant 1



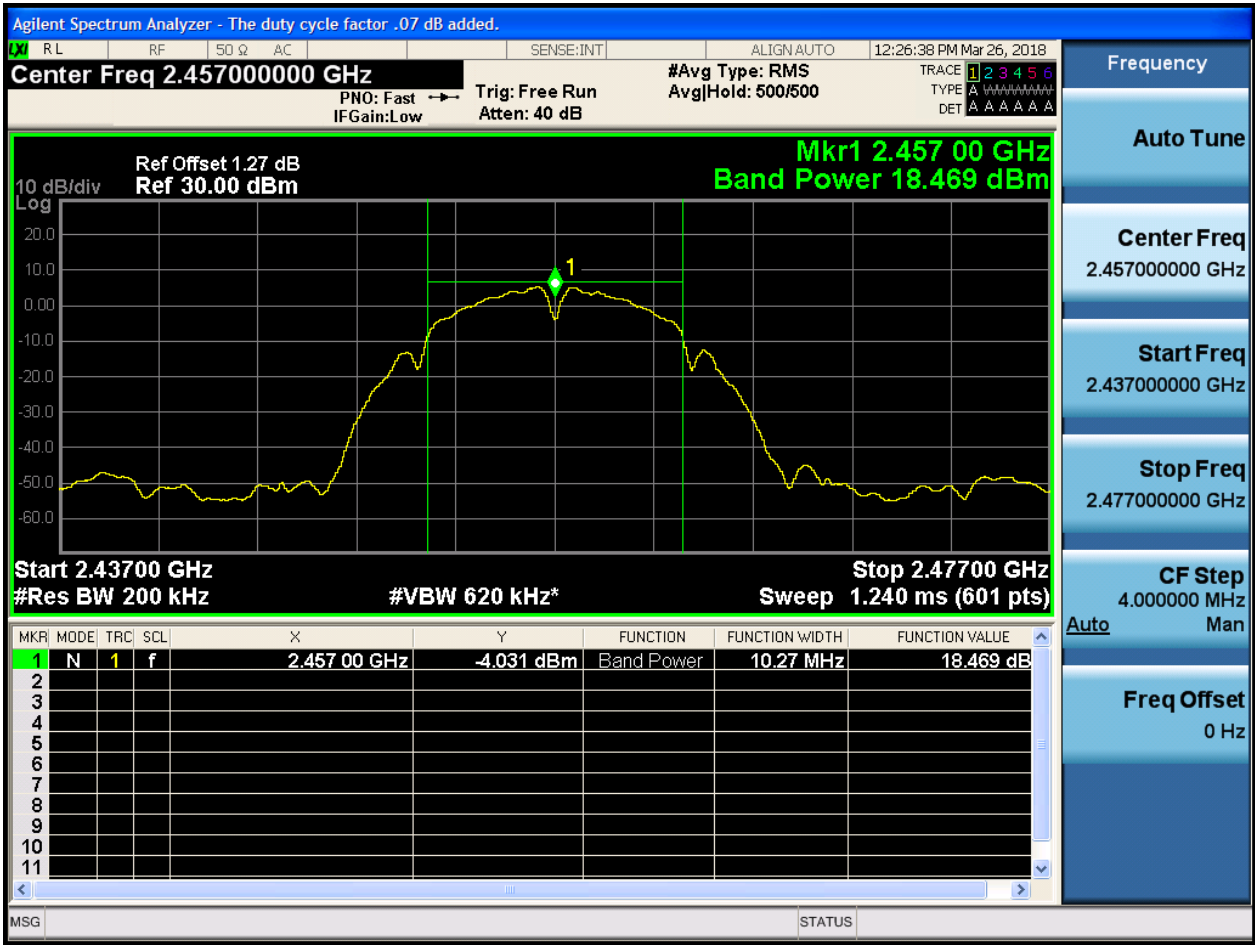


2.6 11B\_M@Ant 2



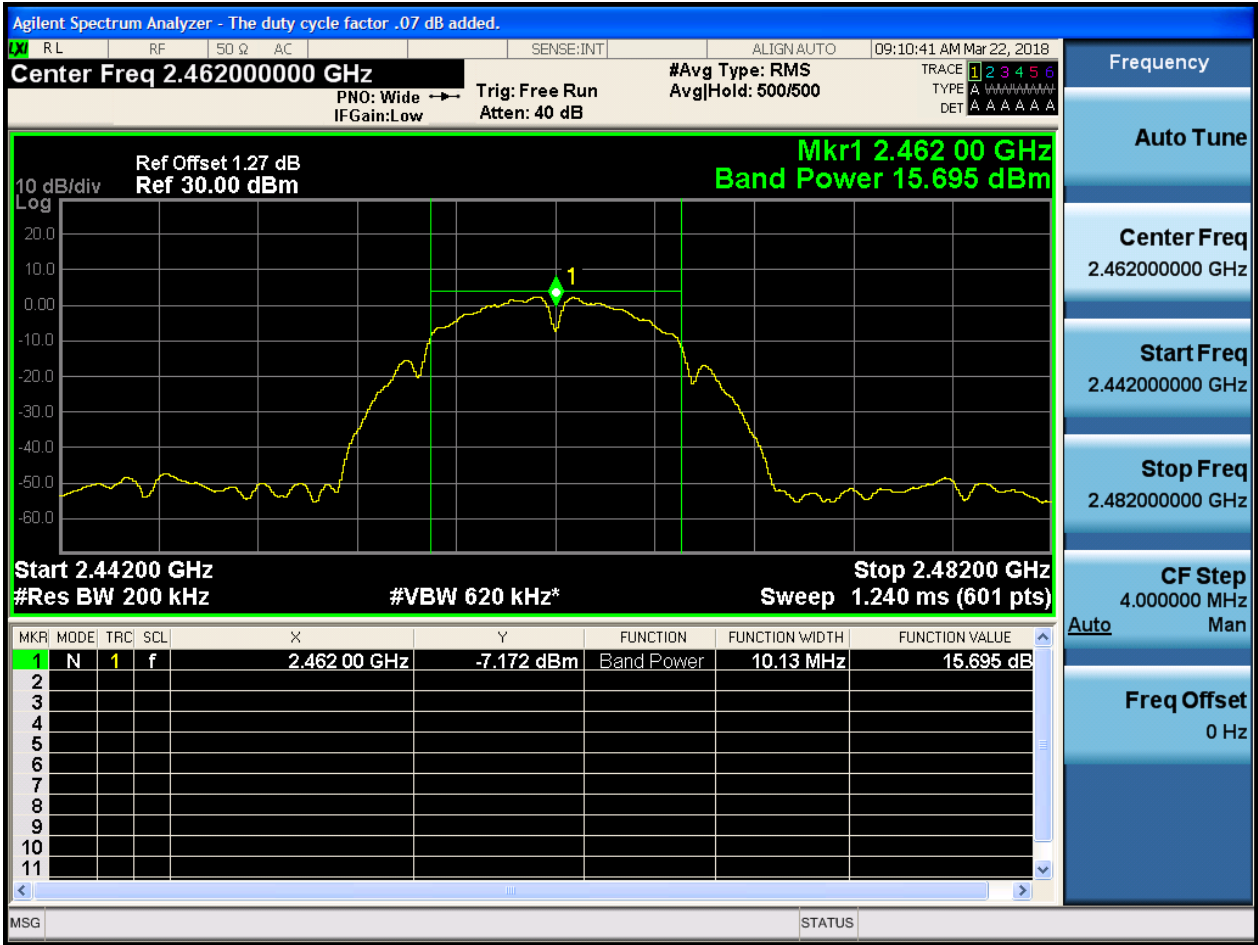


2.7 11B\_H\_2457@Ant 1





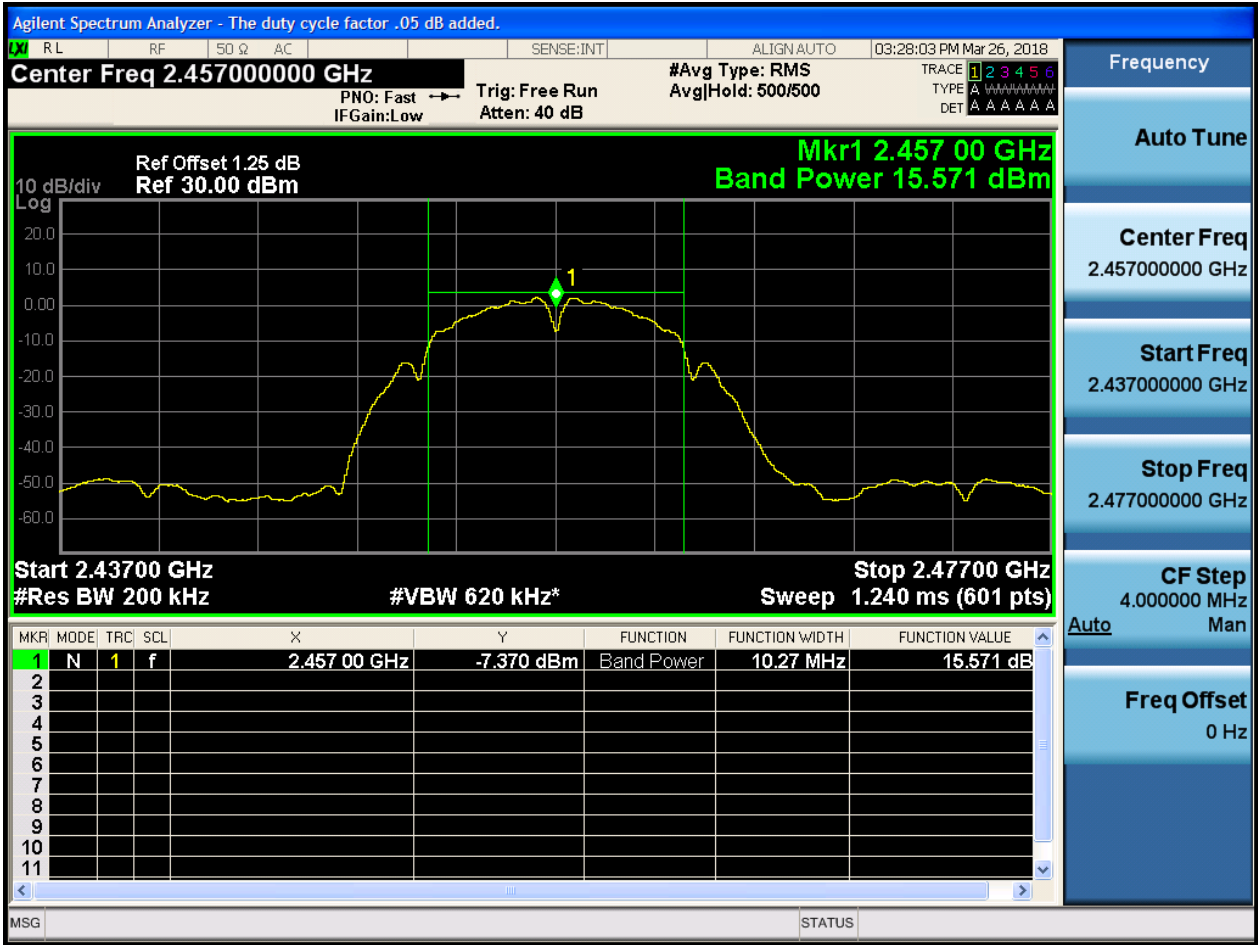
2.8 11B\_H\_2462@Ant 1







2.9 11B\_H\_2457@Ant 2



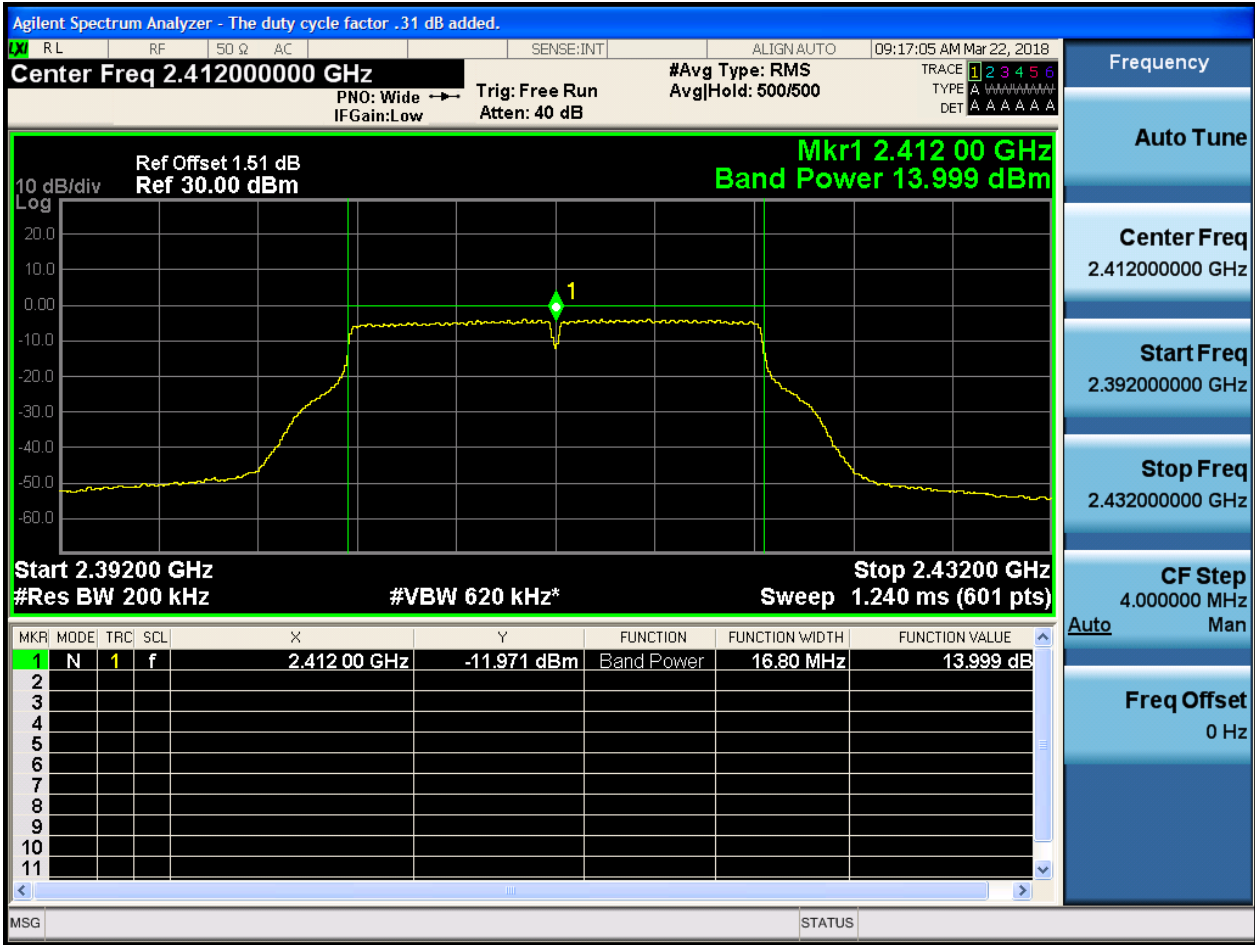


2.10 11B\_H\_2462@Ant 2





2.11 11G\_L\_2412@Ant 1





2.12 11G\_L\_2417@Ant 1

