

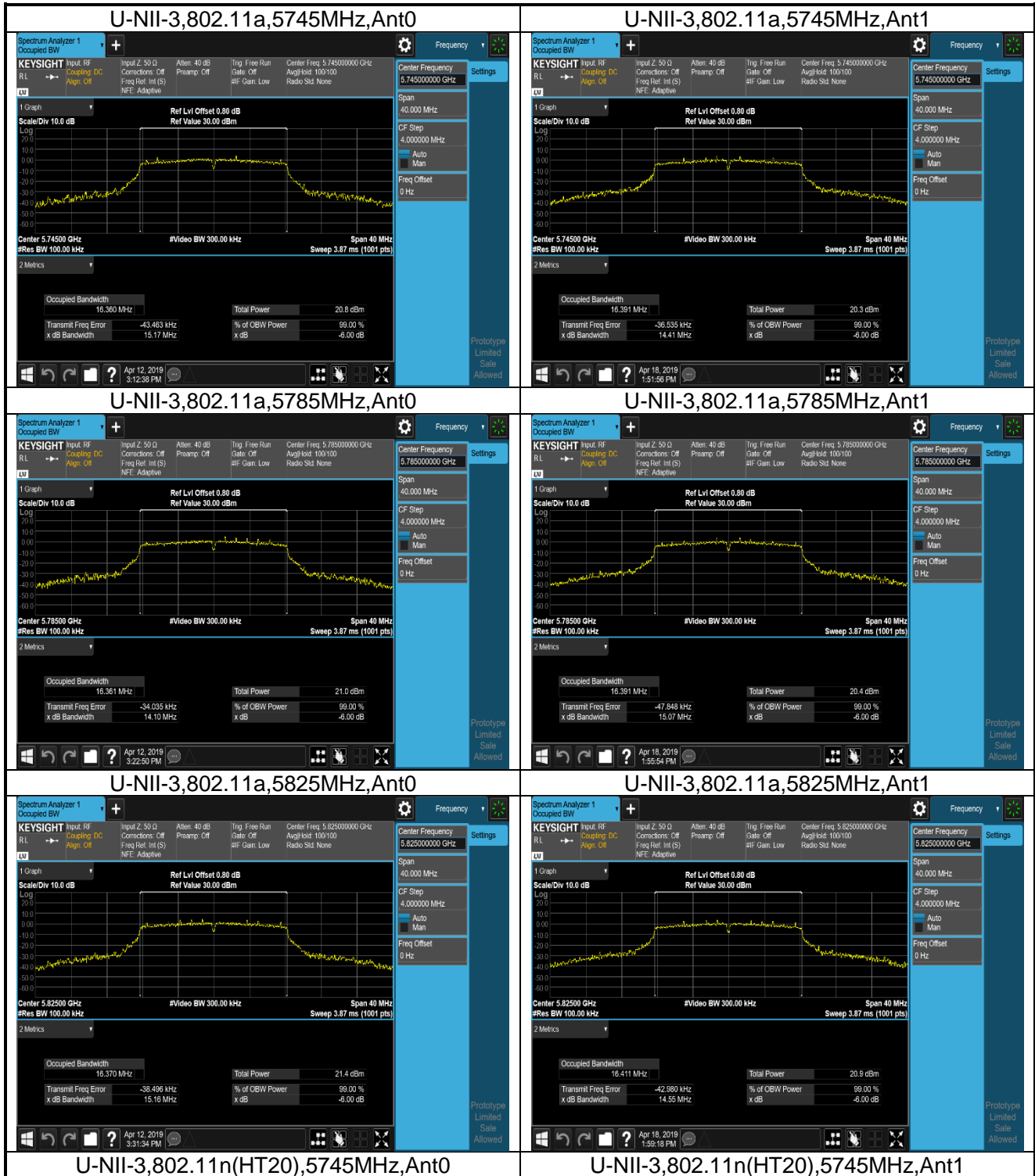
Appendix A4: Test results

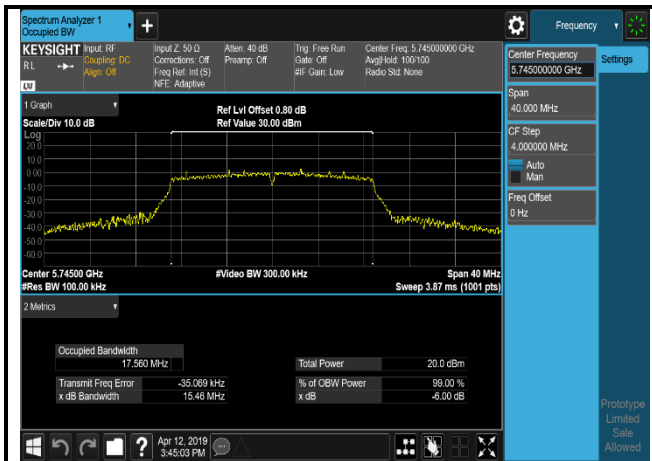
1. Occupied N dB Bandwidth

1.1 Test Data

U-NII-3 Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5745	Ant0	15.17	Pass
802.11a	5745	Ant1	14.41	Pass
802.11a	5785	Ant0	14.10	Pass
802.11a	5785	Ant1	15.07	Pass
802.11a	5825	Ant0	15.16	Pass
802.11a	5825	Ant1	14.55	Pass
802.11n (HT20)	5745	Ant0	15.46	Pass
802.11n (HT20)	5745	Ant1	15.16	Pass
802.11n (HT20)	5785	Ant0	11.94	Pass
802.11n (HT20)	5785	Ant1	15.01	Pass
802.11n (HT20)	5825	Ant0	13.38	Pass
802.11n (HT20)	5825	Ant1	15.13	Pass
802.11n (HT40)	5755	Ant0	35.16	Pass
802.11n (HT40)	5755	Ant1	35.14	Pass
802.11n (HT40)	5795	Ant0	35.20	Pass
802.11n (HT40)	5795	Ant1	35.23	Pass
802.11ac (VHT80)	5775	Ant0	75.79	Pass
802.11ac (VHT80)	5775	Ant1	75.97	Pass

1.2 Test Plots

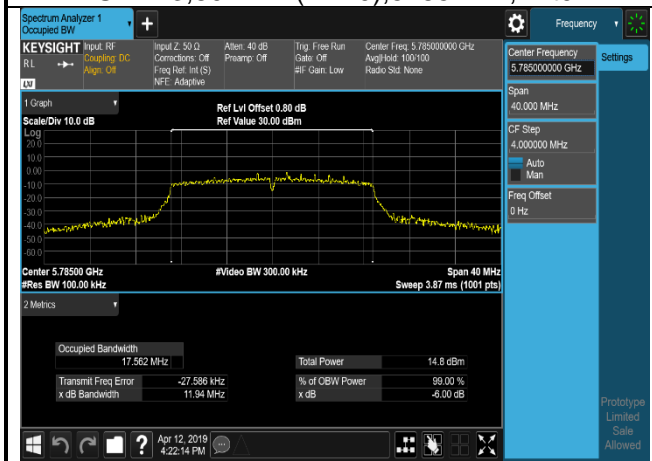




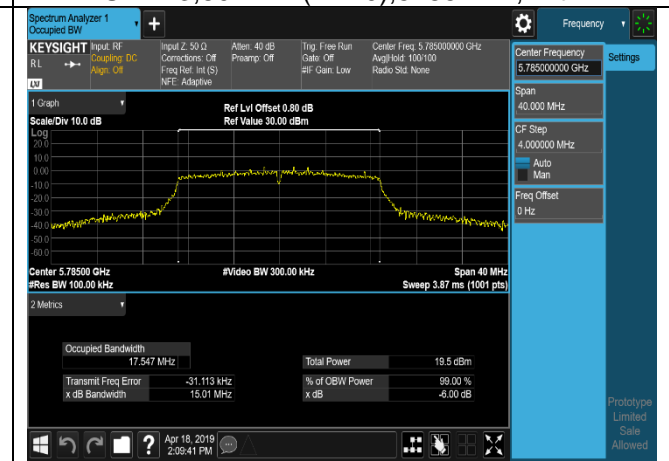
U-NII-3,802.11n(HT20),5785MHz,Ant0



U-NII-3,802.11n(HT20),5785MHz,Ant1



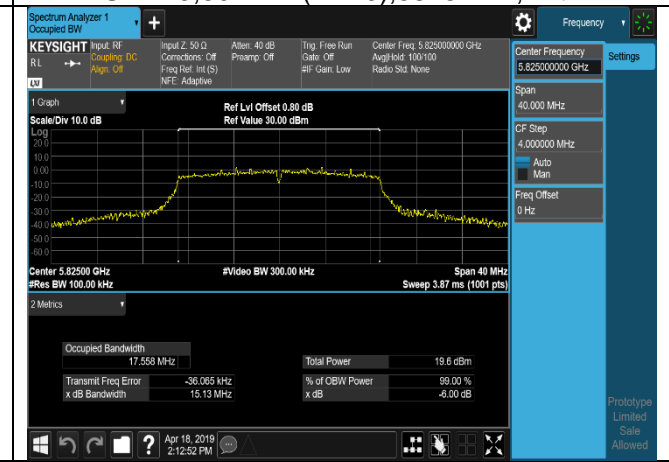
U-NII-3,802.11n(HT20),5825MHz,Ant0



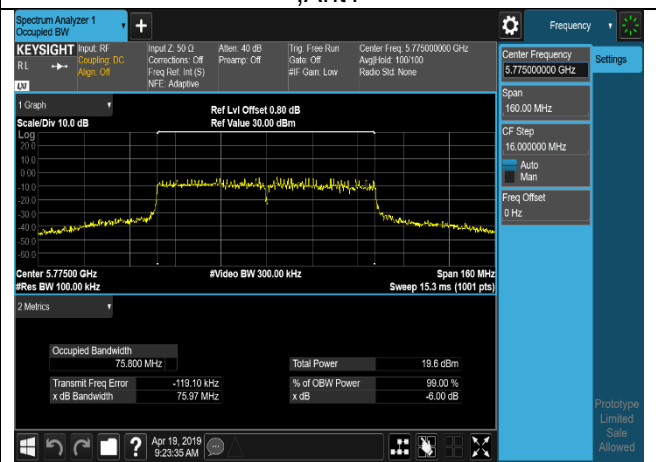
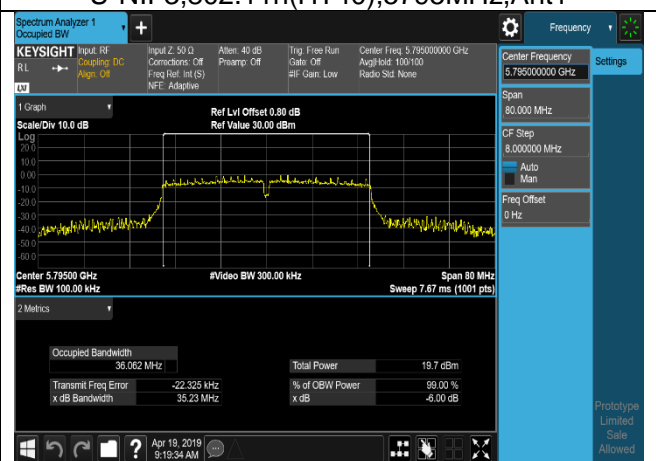
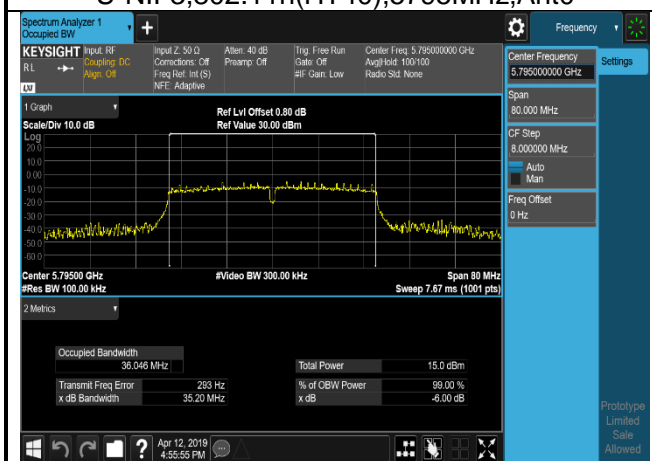
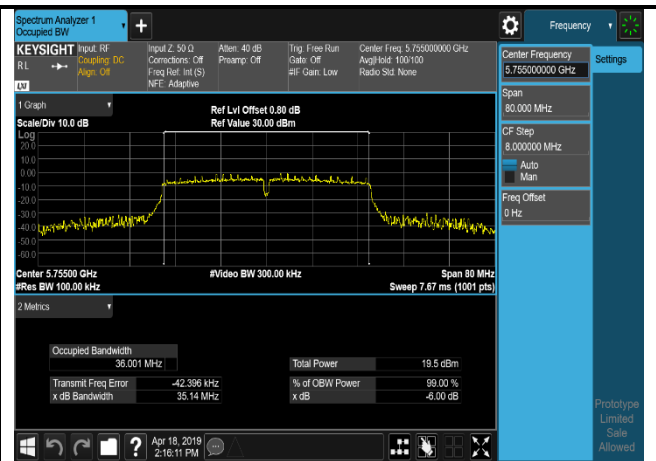
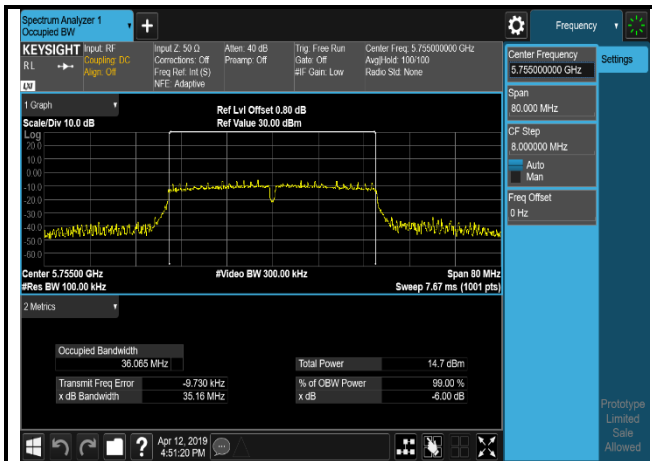
U-NII-3,802.11n(HT20),5825MHz,Ant1



U-NII-3,802.11n(HT40),5755MHz,Ant0



U-NII-3,802.11n(HT40),5755MHz,Ant1

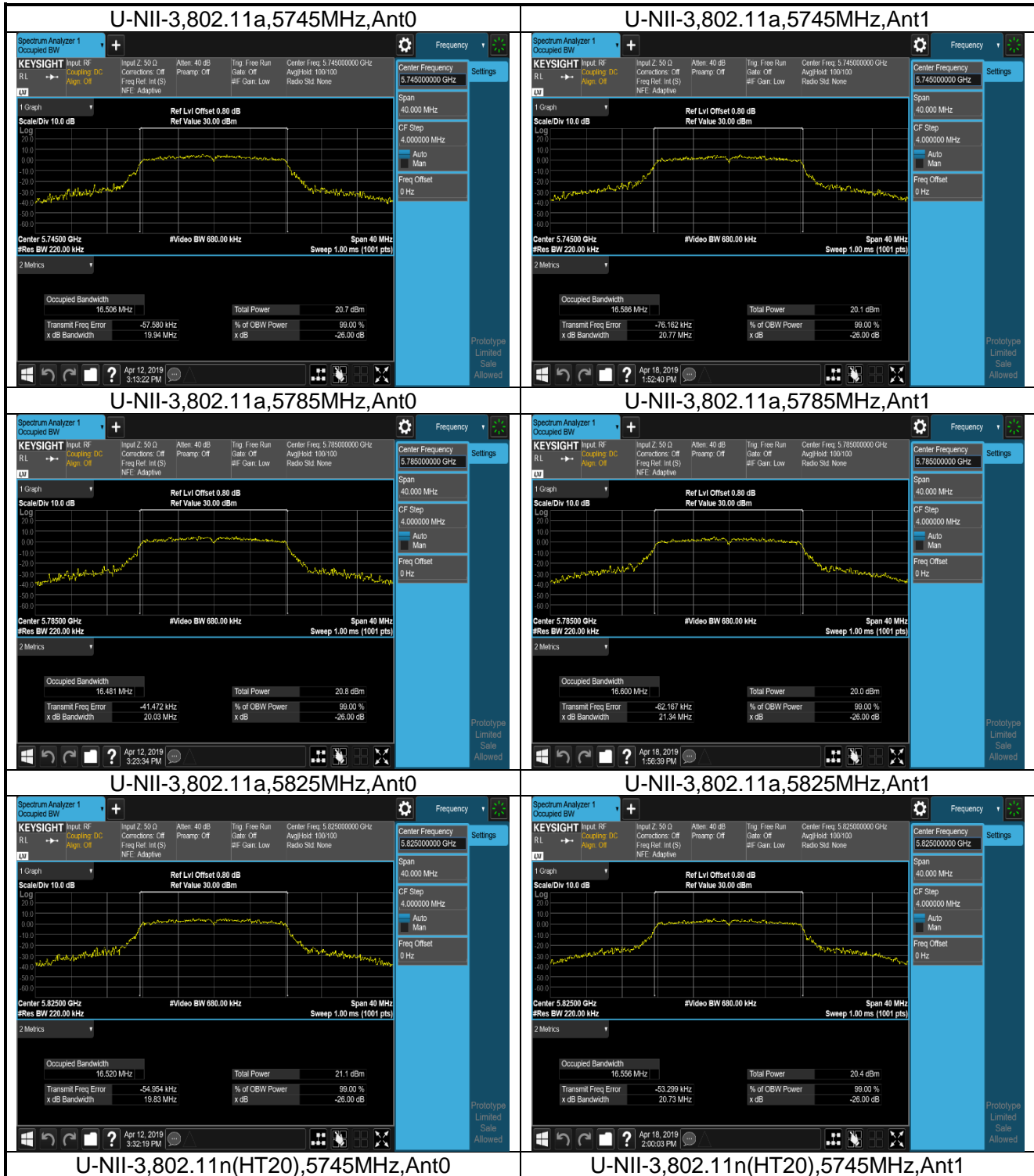


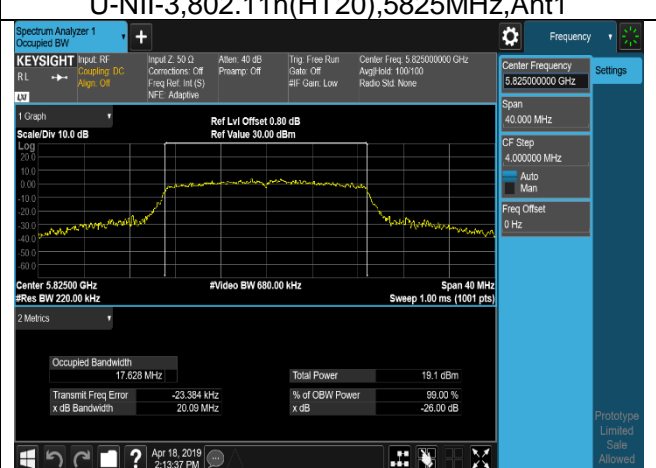
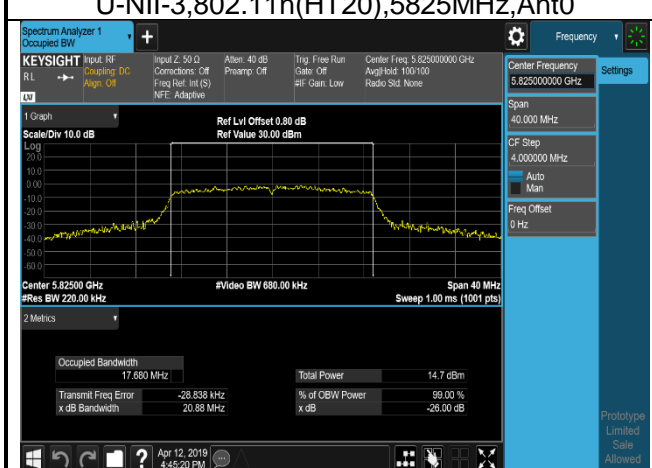
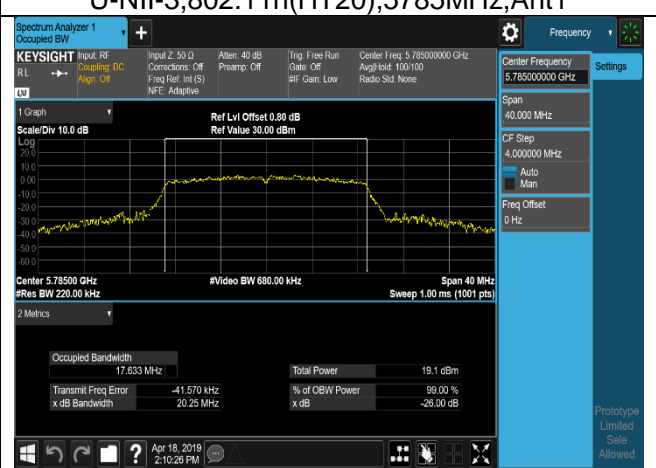
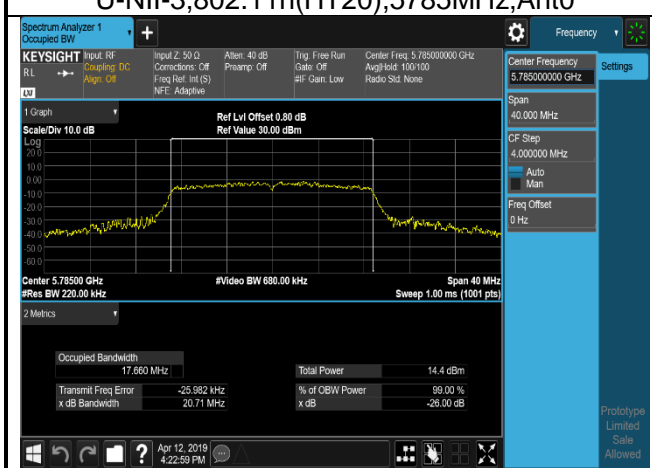
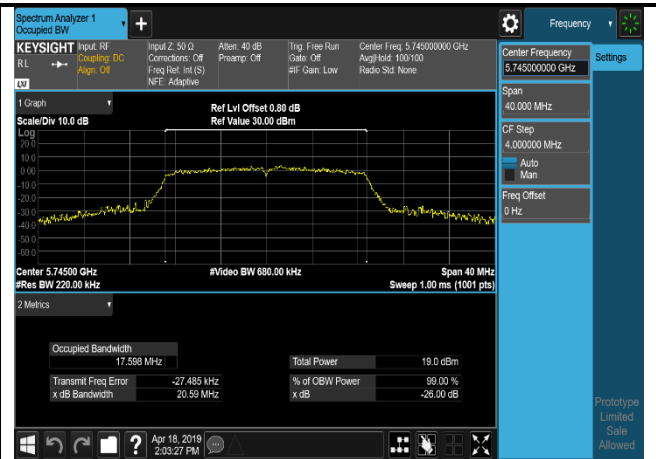
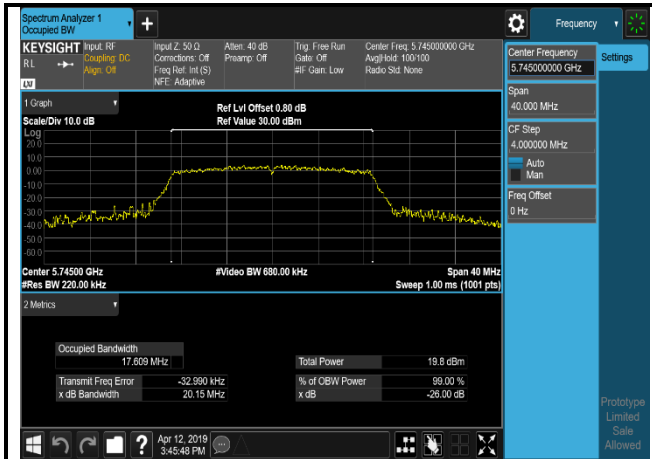
2. 99% Occupied Bandwidth

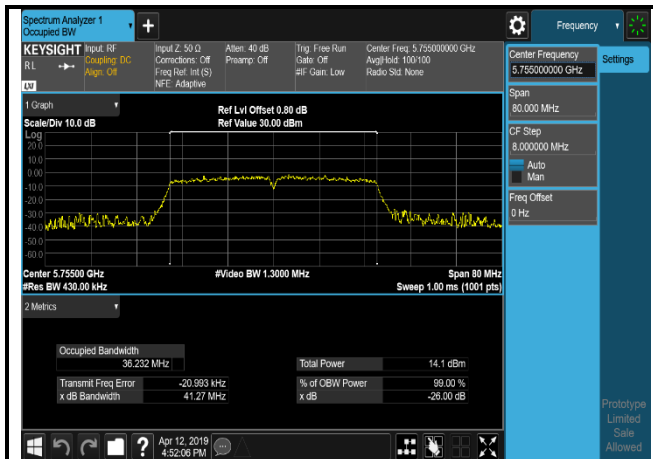
2.1 Test Data

U-NII-3 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5745	Ant0	16.506	Pass
802.11a	5745	Ant1	16.586	Pass
802.11a	5785	Ant0	16.481	Pass
802.11a	5785	Ant1	16.600	Pass
802.11a	5825	Ant0	16.520	Pass
802.11a	5825	Ant1	16.556	Pass
802.11n (HT20)	5745	Ant0	17.609	Pass
802.11n (HT20)	5745	Ant1	17.598	Pass
802.11n (HT20)	5785	Ant0	17.660	Pass
802.11n (HT20)	5785	Ant1	17.633	Pass
802.11n (HT20)	5825	Ant0	17.680	Pass
802.11n (HT20)	5825	Ant1	17.628	Pass
802.11n (HT40)	5755	Ant0	36.232	Pass
802.11n (HT40)	5755	Ant1	36.189	Pass
802.11n (HT40)	5795	Ant0	36.204	Pass
802.11n (HT40)	5795	Ant1	36.259	Pass
802.11ac (VHT80)	5775	Ant0	75.809	Pass
802.11ac (VHT80)	5775	Ant1	76.365	Pass

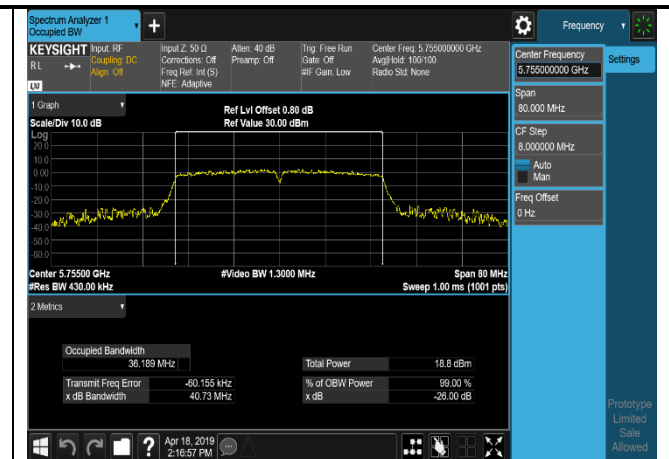
2.2 Test Plots



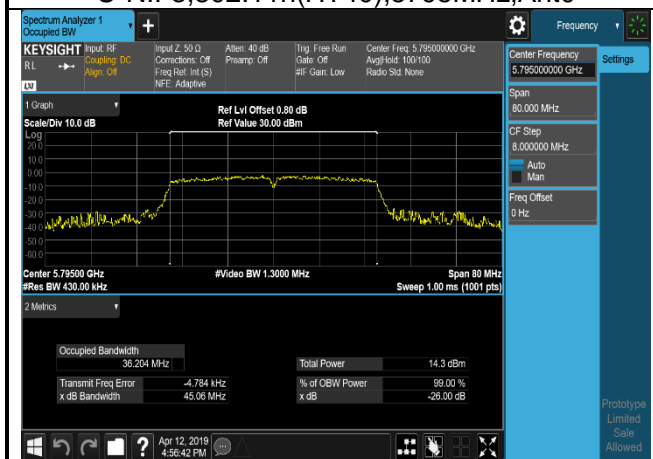




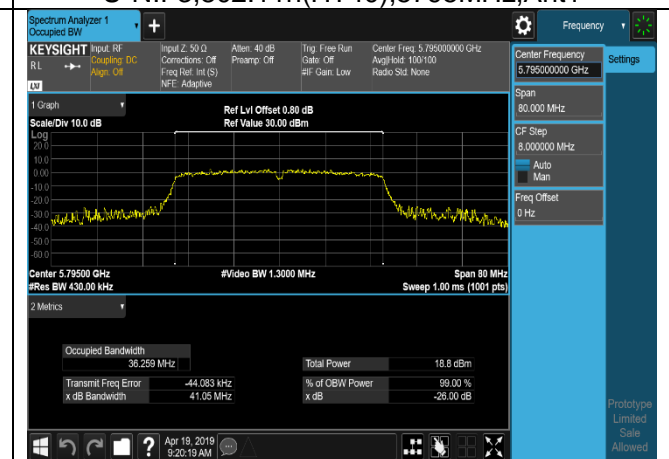
U-NII-3,802.11n(HT40),5795MHz,Ant0



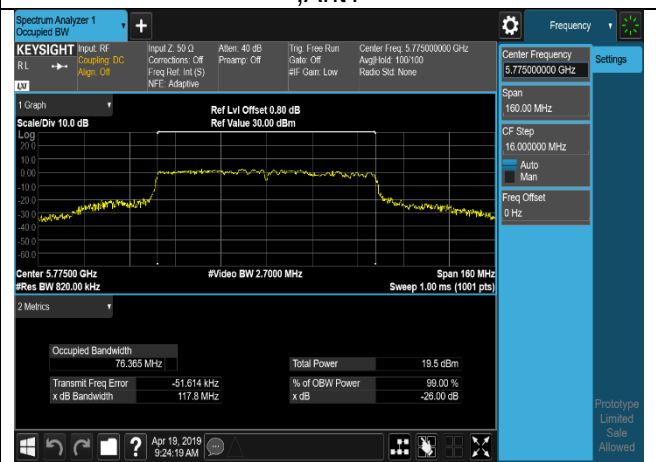
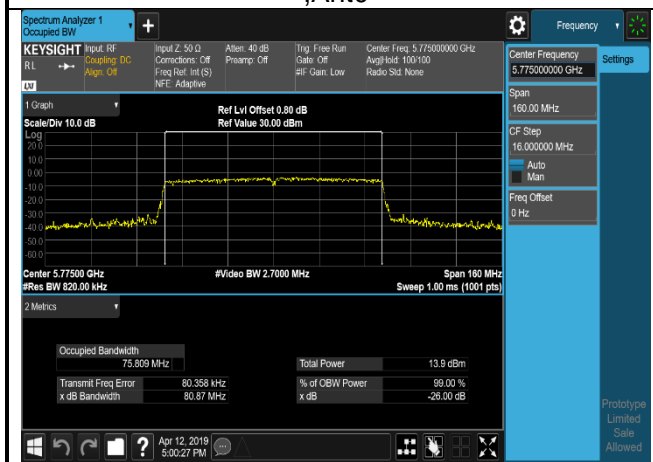
U-NII-3,802.11n(HT40),5795MHz,Ant1



U-NII-3,802.11ac(VHT80),5775MHz,Ant0



U-NII-3,802.11ac(VHT80),5775MHz,Ant1

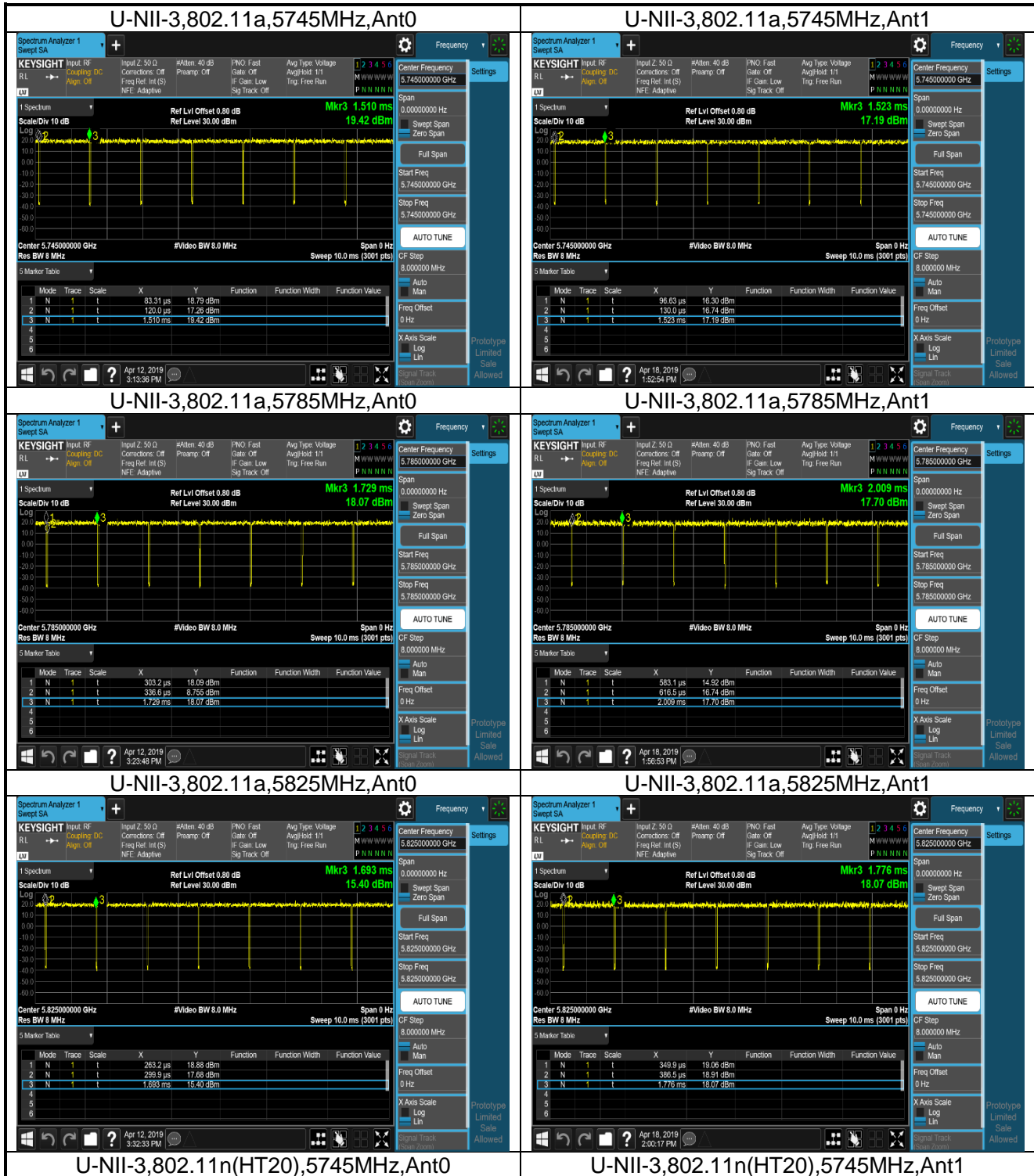


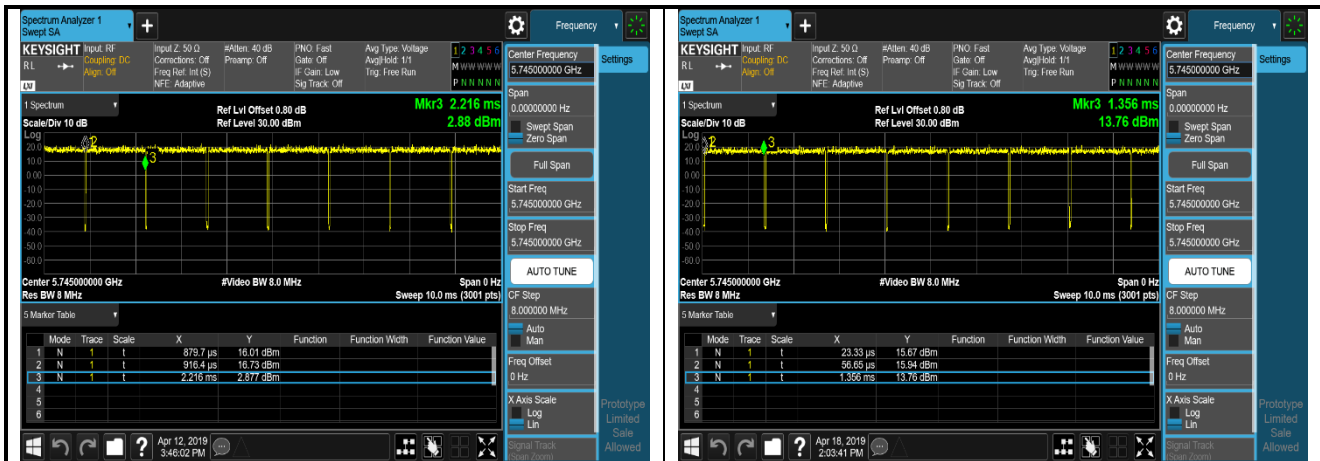
3. Duty Cycle

3.1 Test Data

U-NII-3 Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5745	Ant0	97.43	0.11
802.11a	5745	Ant1	97.66	0.10
802.11a	5785	Ant0	97.66	0.10
802.11a	5785	Ant1	97.66	0.10
802.11a	5825	Ant0	97.44	0.11
802.11a	5825	Ant1	97.43	0.11
802.11n (HT20)	5745	Ant0	97.26	0.12
802.11n (HT20)	5745	Ant1	97.50	0.11
802.11n (HT20)	5785	Ant0	97.50	0.11
802.11n (HT20)	5785	Ant1	97.26	0.12
802.11n (HT20)	5825	Ant0	97.26	0.12
802.11n (HT20)	5825	Ant1	97.26	0.12
802.11n (HT40)	5755	Ant0	94.63	0.24
802.11n (HT40)	5755	Ant1	94.63	0.24
802.11n (HT40)	5795	Ant0	94.63	0.24
802.11n (HT40)	5795	Ant1	95.12	0.22
802.11ac (VHT80)	5775	Ant0	84.13	0.75
802.11ac (VHT80)	5775	Ant1	84.13	0.75

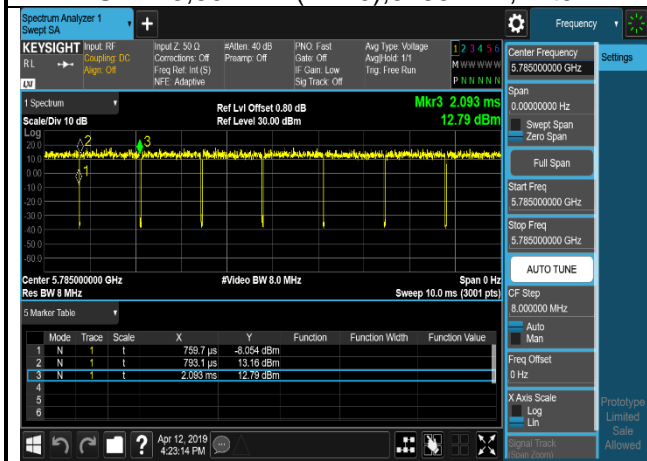
3.2 Test Plots



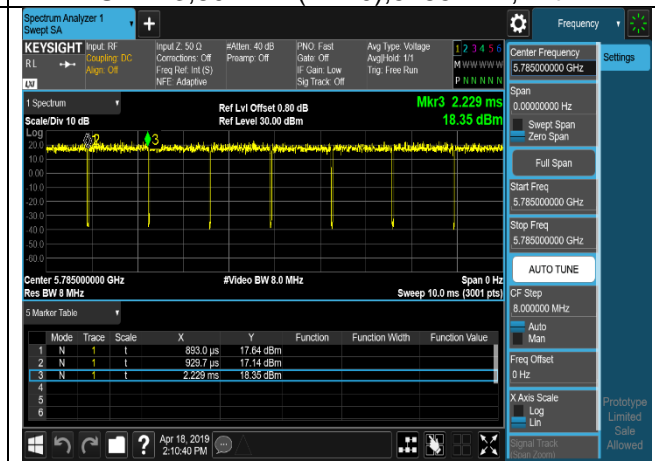


U-NII-3,802.11n(HT20),5785MHz,Ant0

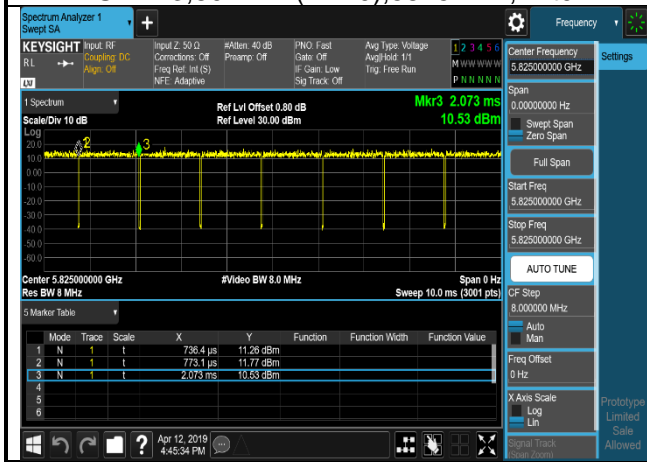
U-NII-3,802.11n(HT20),5785MHz,Ant1



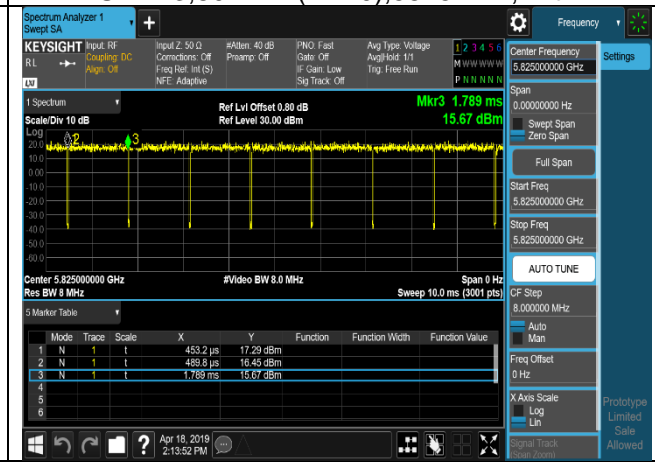
U-NII-3,802.11n(HT20),5825MHz,Ant0



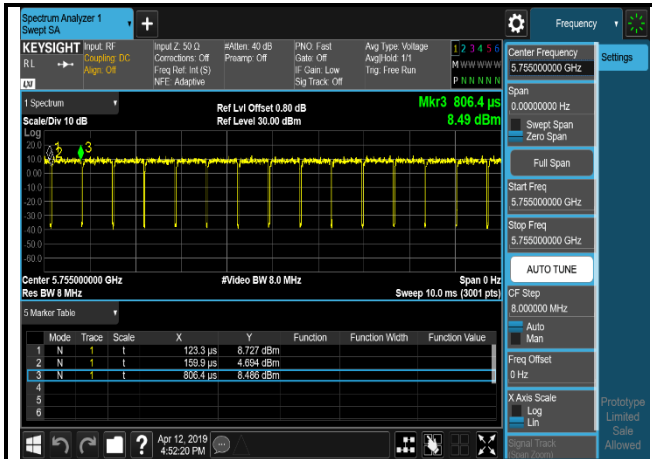
U-NII-3,802.11n(HT20),5825MHz,Ant1



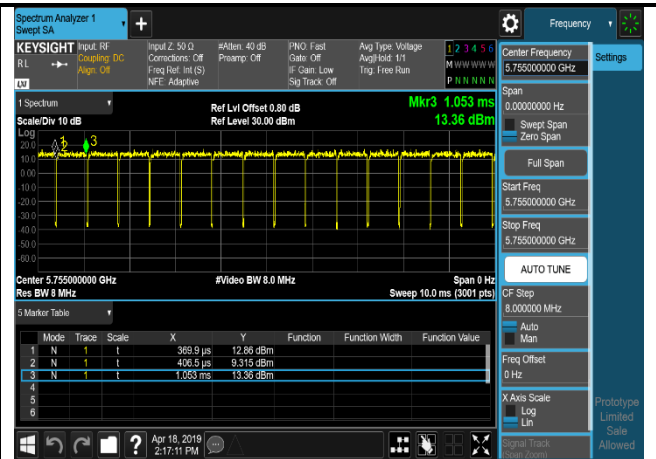
U-NII-3,802.11n(HT40),5755MHz,Ant0



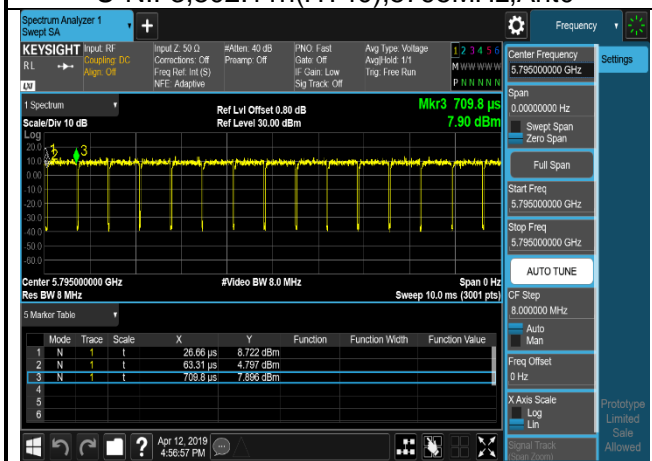
U-NII-3,802.11n(HT40),5755MHz,Ant1



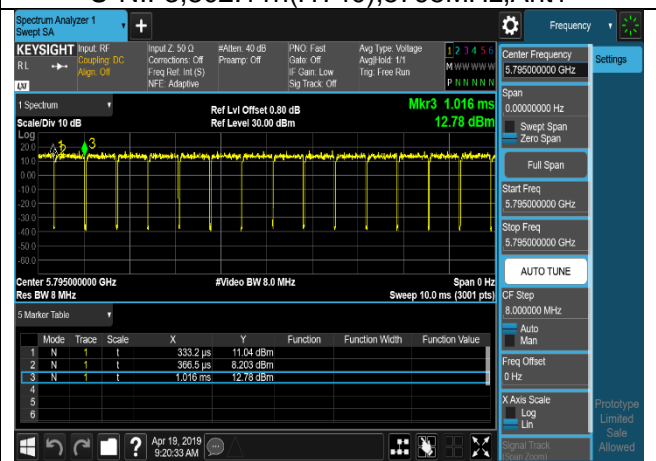
U-NII-3,802.11n(HT40),5795MHz,Ant0



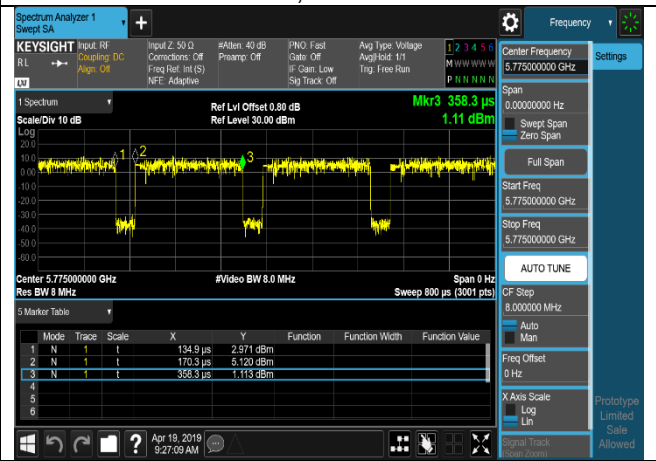
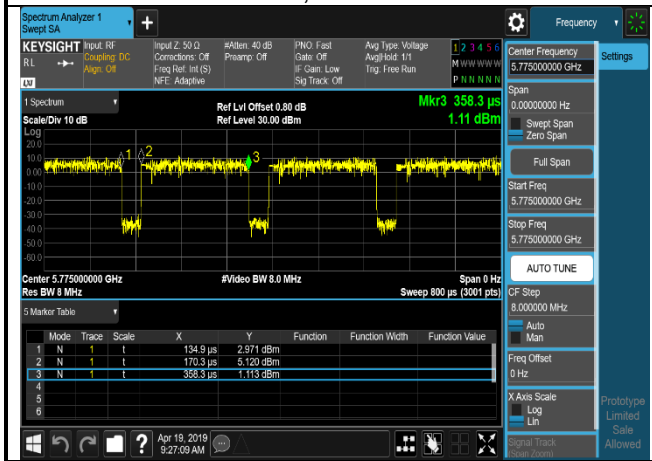
U-NII-3,802.11n(HT40),5795MHz,Ant1



U-NII-3,802.11ac(VHT80),5775MHz ,Ant0



U-NII-3,802.11ac(VHT80),5775MHz ,Ant1

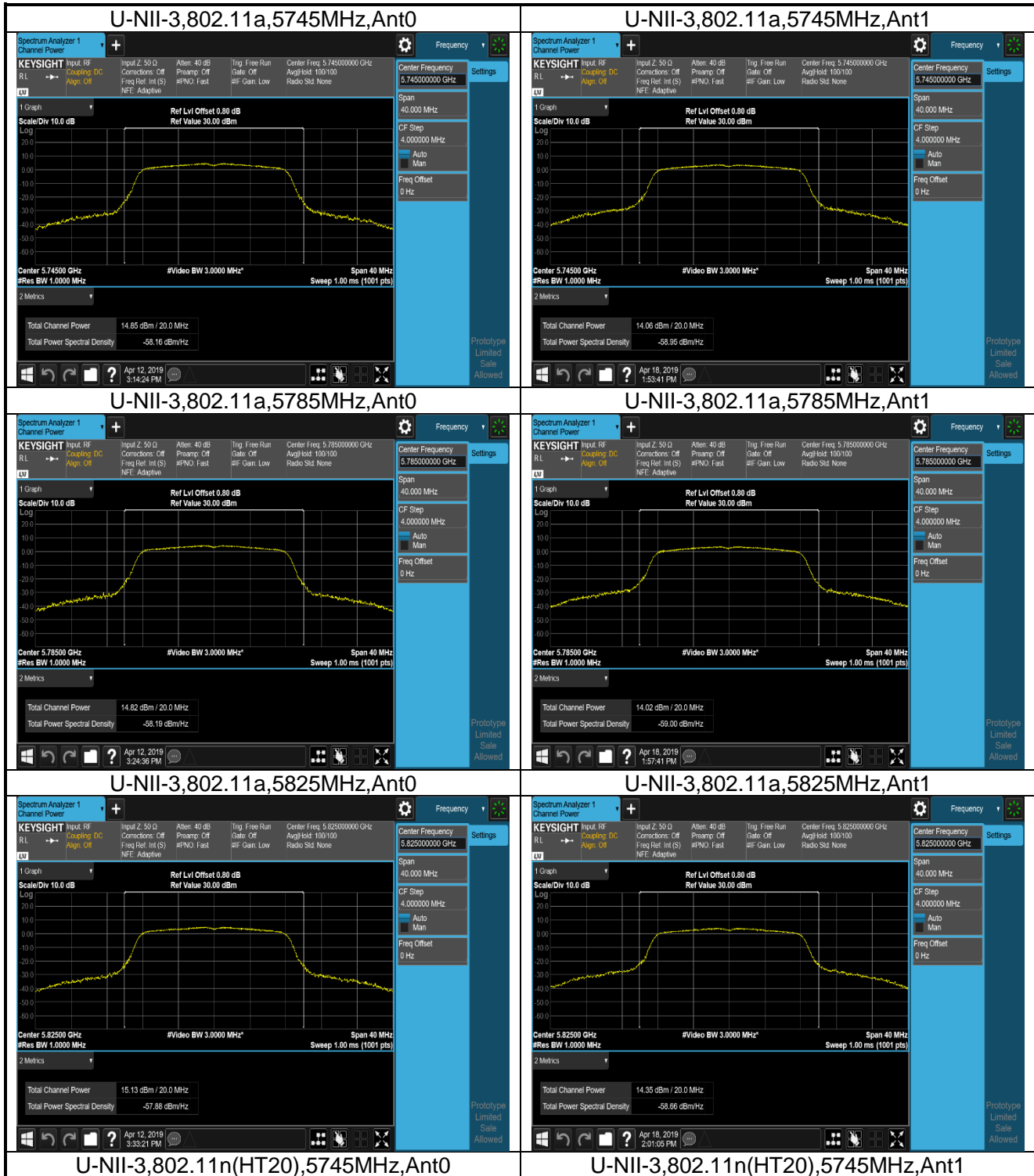


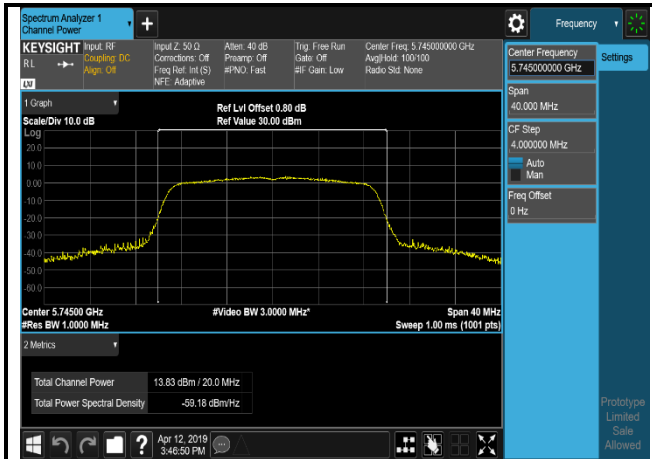
4. AVGSA Output Power

4.1 Test Data

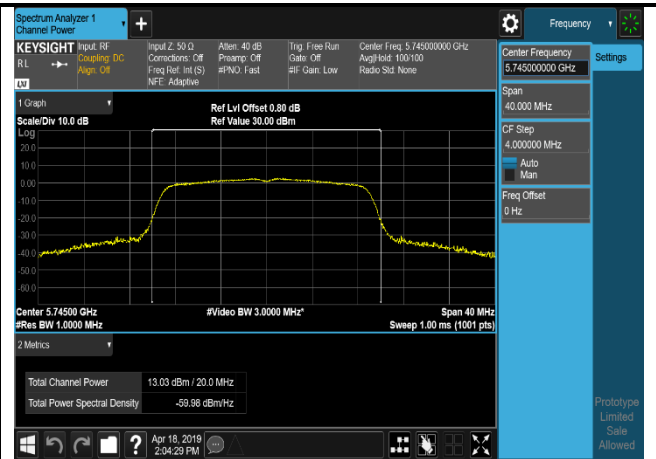
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	Result
802.11a	5745	Ant0	0.11	14.96	14.96	30	18.48	Pass
802.11a	5745	Ant1	0.10	14.16	14.16	30	17.60	Pass
802.11a	5785	Ant0	0.10	14.92	14.92	30	18.44	Pass
802.11a	5785	Ant1	0.10	14.12	14.12	30	17.56	Pass
802.11a	5825	Ant0	0.11	15.24	15.24	30	18.76	Pass
802.11a	5825	Ant1	0.11	14.46	14.46	30	17.90	Pass
802.11n (HT20)	5745	Ant0	0.12	13.95	16.57	30	20.05	Pass
802.11n (HT20)	5745	Ant1	0.11	13.14				
802.11n (HT20)	5785	Ant0	0.11	8.49	14.39	30	17.87	Pass
802.11n (HT20)	5785	Ant1	0.12	13.10				
802.11n (HT20)	5825	Ant0	0.12	8.71	14.56	30	18.04	Pass
802.11n (HT20)	5825	Ant1	0.12	13.25				
802.11n (HT40)	5755	Ant0	0.24	8.16	14.14	30	17.62	Pass
802.11n (HT40)	5755	Ant1	0.24	12.88				
802.11n (HT40)	5795	Ant0	0.24	8.42	14.14	30	17.62	Pass
802.11n (HT40)	5795	Ant1	0.22	12.79				
802.11ac (VHT80)	5775	Ant0	0.75	5.56	11.02	30	14.50	Pass
802.11ac (VHT80)	5775	Ant1	0.75	9.56				

4.2 Test Plots

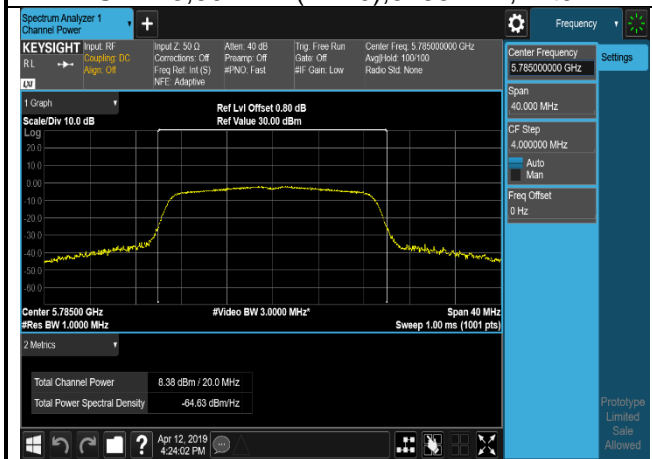




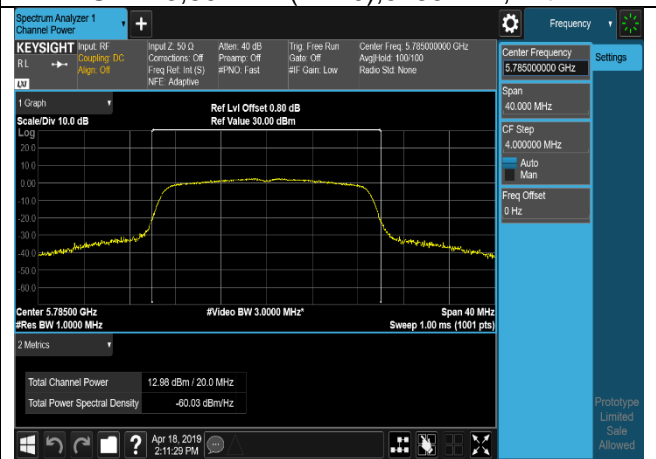
U-NII-3,802.11n(HT20),5785MHz,Ant0



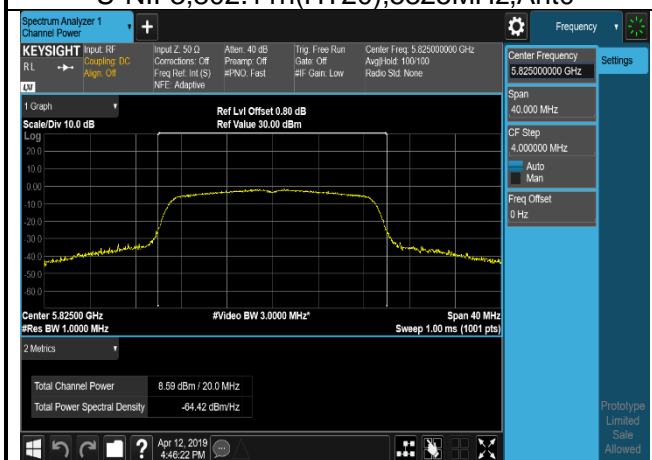
U-NII-3,802.11n(HT20),5785MHz,Ant1



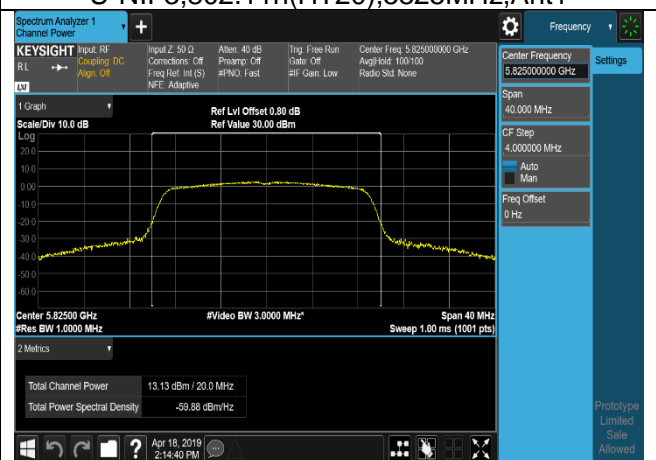
U-NII-3,802.11n(HT20),5825MHz,Ant0



U-NII-3,802.11n(HT20),5825MHz,Ant1



U-NII-3,802.11n(HT40),5755MHz,Ant0



U-NII-3,802.11n(HT40),5755MHz,Ant1