

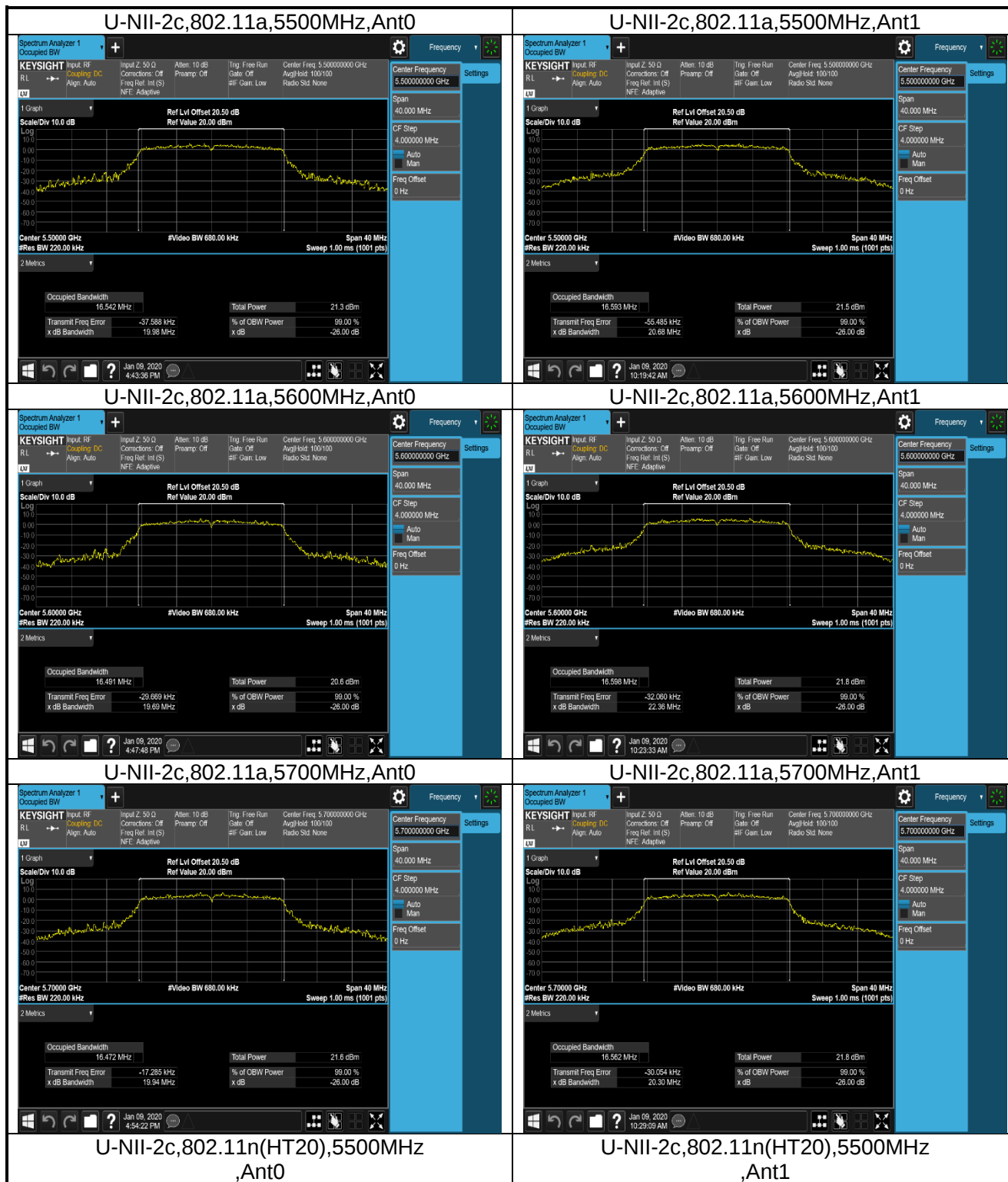
Appendix A: Test results

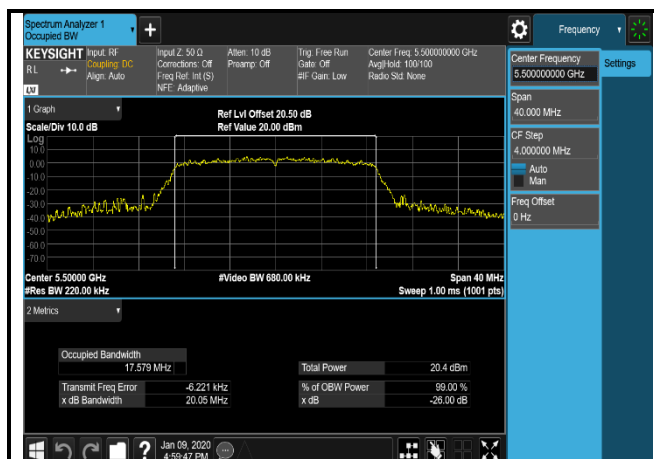
1. Occupied N dB Bandwidth

1.1 Test Data

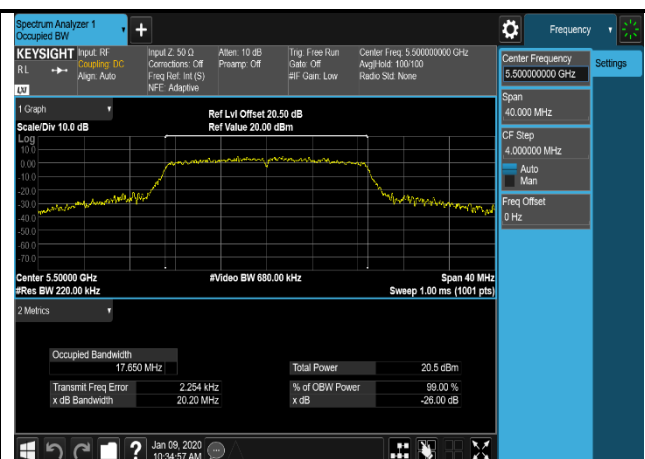
U-NII-2c Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5500	Ant0	19.98	Pass
802.11a	5500	Ant1	20.68	Pass
802.11a	5600	Ant0	19.69	Pass
802.11a	5600	Ant1	22.36	Pass
802.11a	5700	Ant0	19.94	Pass
802.11a	5700	Ant1	20.30	Pass
802.11n (HT20)	5500	Ant0	20.05	Pass
802.11n (HT20)	5500	Ant1	20.20	Pass
802.11n (HT20)	5600	Ant0	20.17	Pass
802.11n (HT20)	5600	Ant1	21.34	Pass
802.11n (HT20)	5700	Ant0	19.98	Pass
802.11n (HT20)	5700	Ant1	20.03	Pass
802.11n (HT40)	5510	Ant0	40.34	Pass
802.11n (HT40)	5510	Ant1	40.98	Pass
802.11n (HT40)	5590	Ant0	40.30	Pass
802.11n (HT40)	5590	Ant1	46.74	Pass
802.11n (HT40)	5670	Ant0	40.21	Pass
802.11n (HT40)	5670	Ant1	45.32	Pass
802.11ac (VHT80)	5530	Ant0	80.39	Pass
802.11ac (VHT80)	5530	Ant1	80.70	Pass
802.11ac (VHT80)	5610	Ant0	80.88	Pass
802.11ac (VHT80)	5610	Ant1	80.36	Pass

1.2 Test Plots

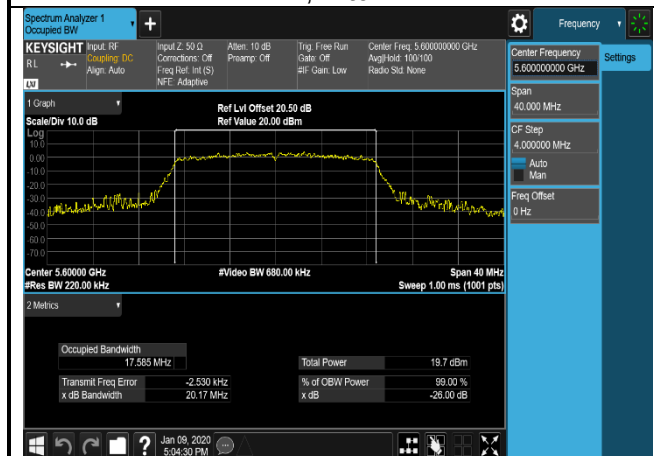




U-NII-2c,802.11n(HT20),5600MHz
,Ant0



U-NII-2c,802.11n(HT20),5600MHz
,Ant1



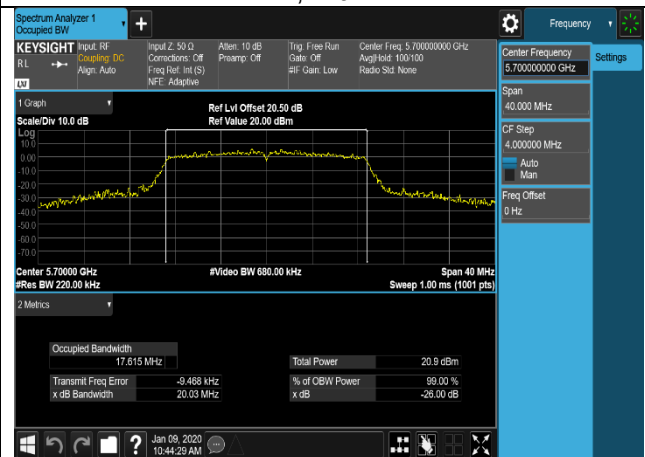
U-NII-2c,802.11n(HT20),5700MHz
,Ant0



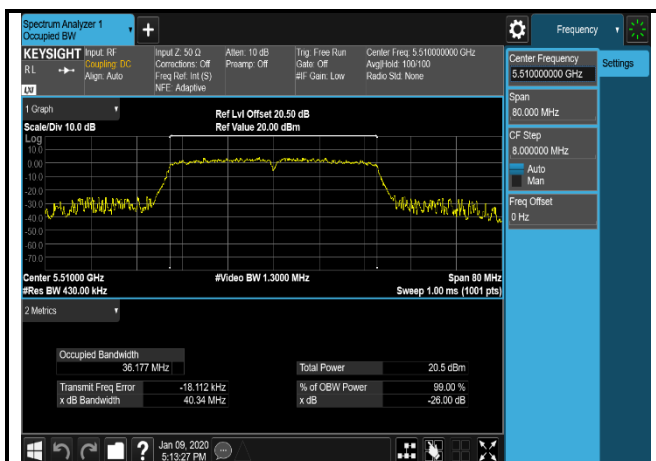
U-NII-2c,802.11n(HT20),5700MHz
,Ant1



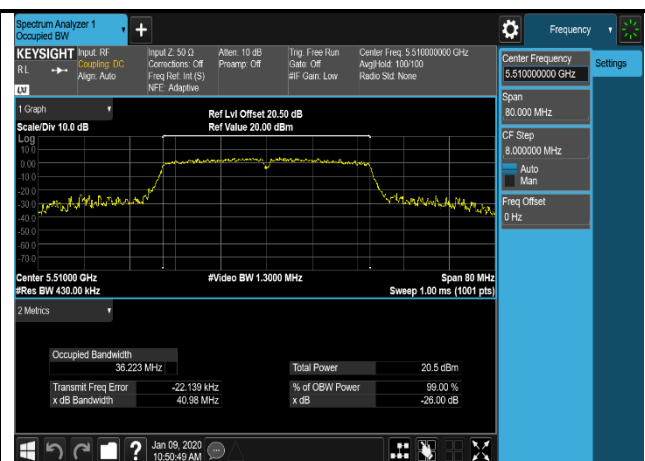
U-NII-2c,802.11n(HT40),5510MHz
,Ant0



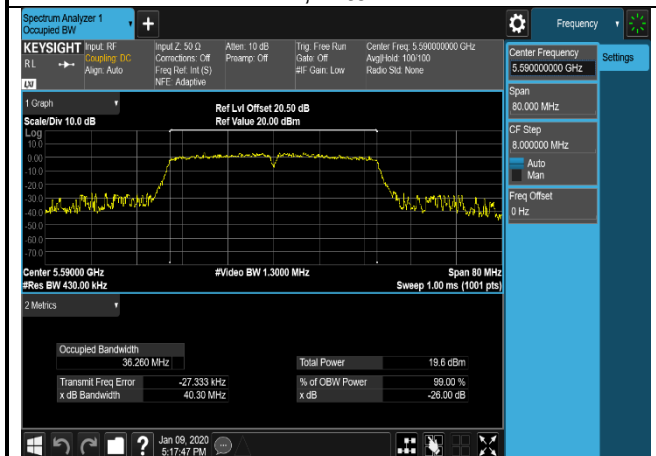
U-NII-2c,802.11n(HT40),5510MHz
,Ant1



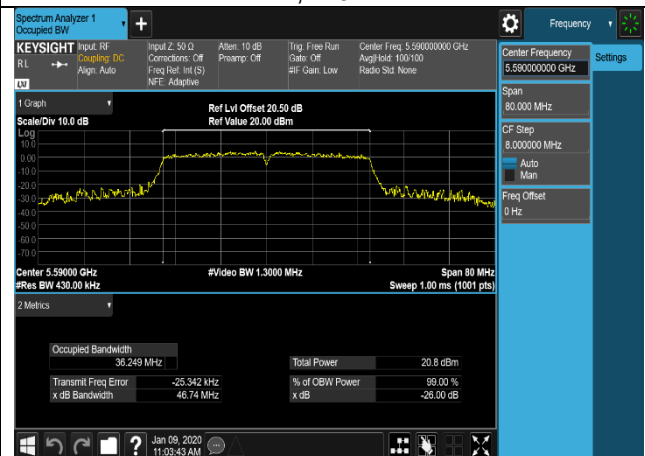
U-NII-2c,802.11n(HT40),5590MHz
,Ant0



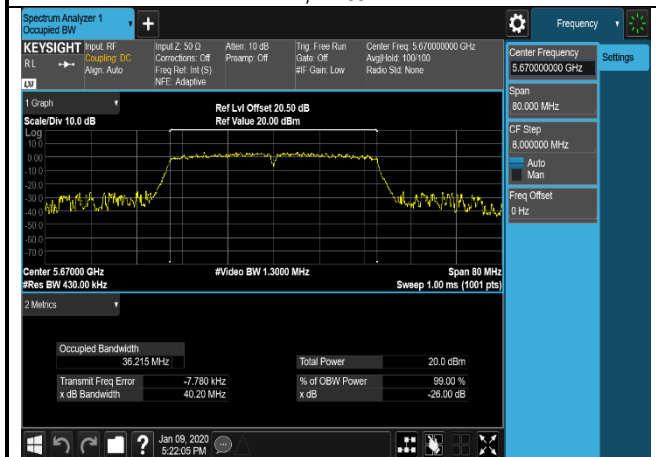
U-NII-2c,802.11n(HT40),5590MHz
,Ant1



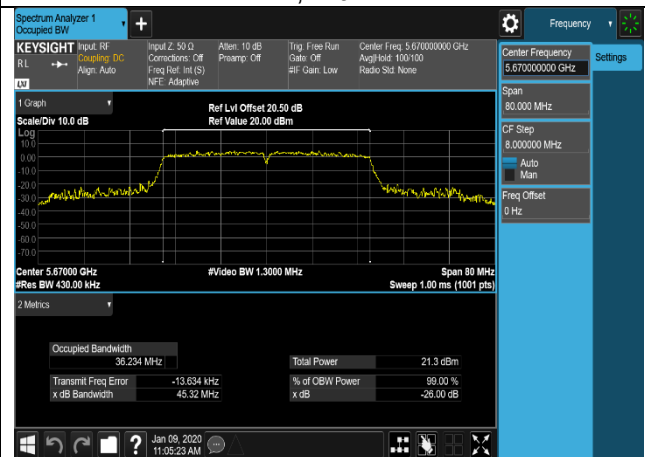
U-NII-2c,802.11n(HT40),5670MHz
,Ant0



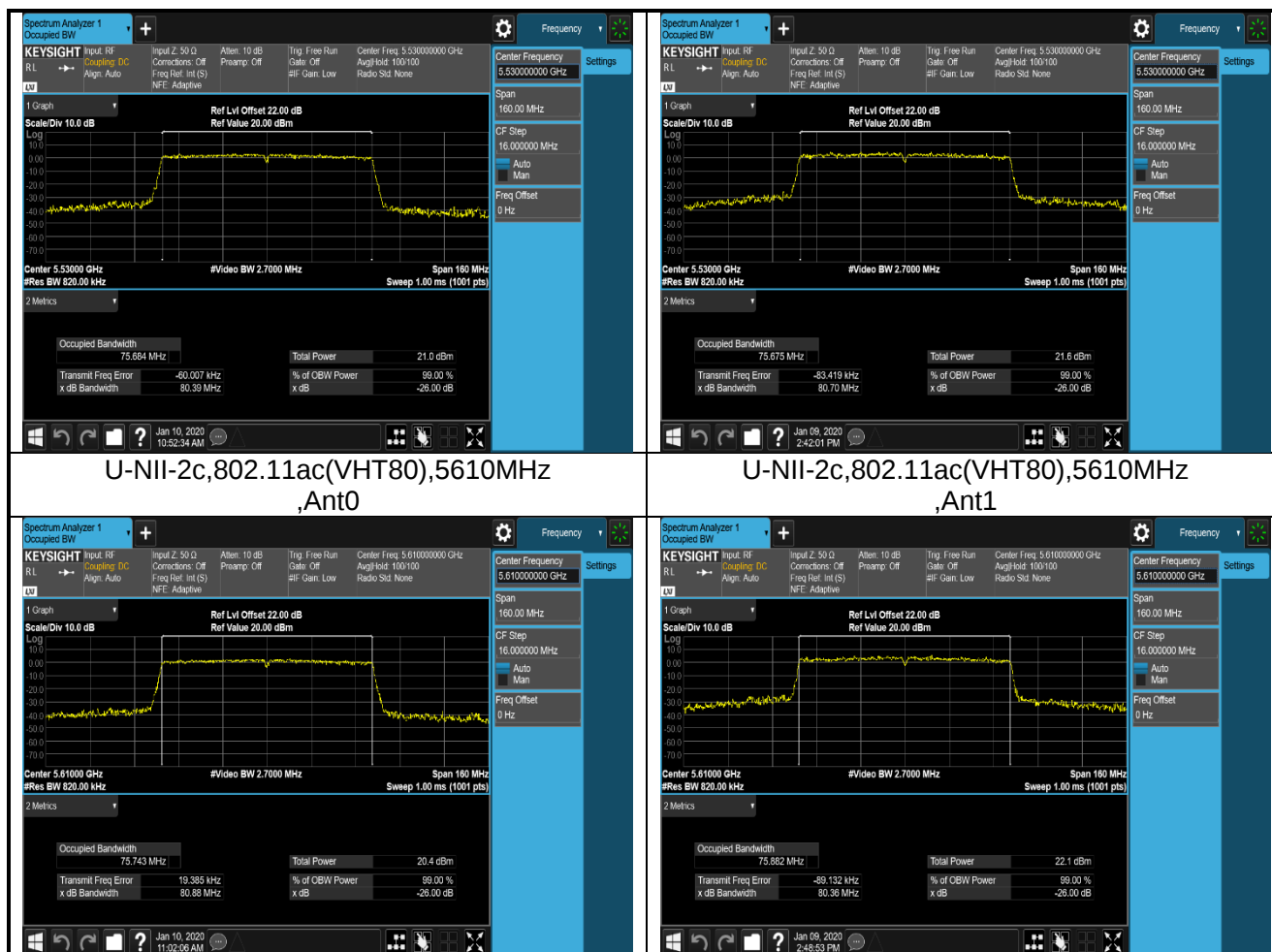
U-NII-2c,802.11n(HT40),5670MHz
,Ant1



U-NII-2c,802.11ac(VHT80),5530MHz
,Ant0



U-NII-2c,802.11ac(VHT80),5530MHz
,Ant1



U-NII-2c,802.11ac(VHT80),5610MHz
,Ant0

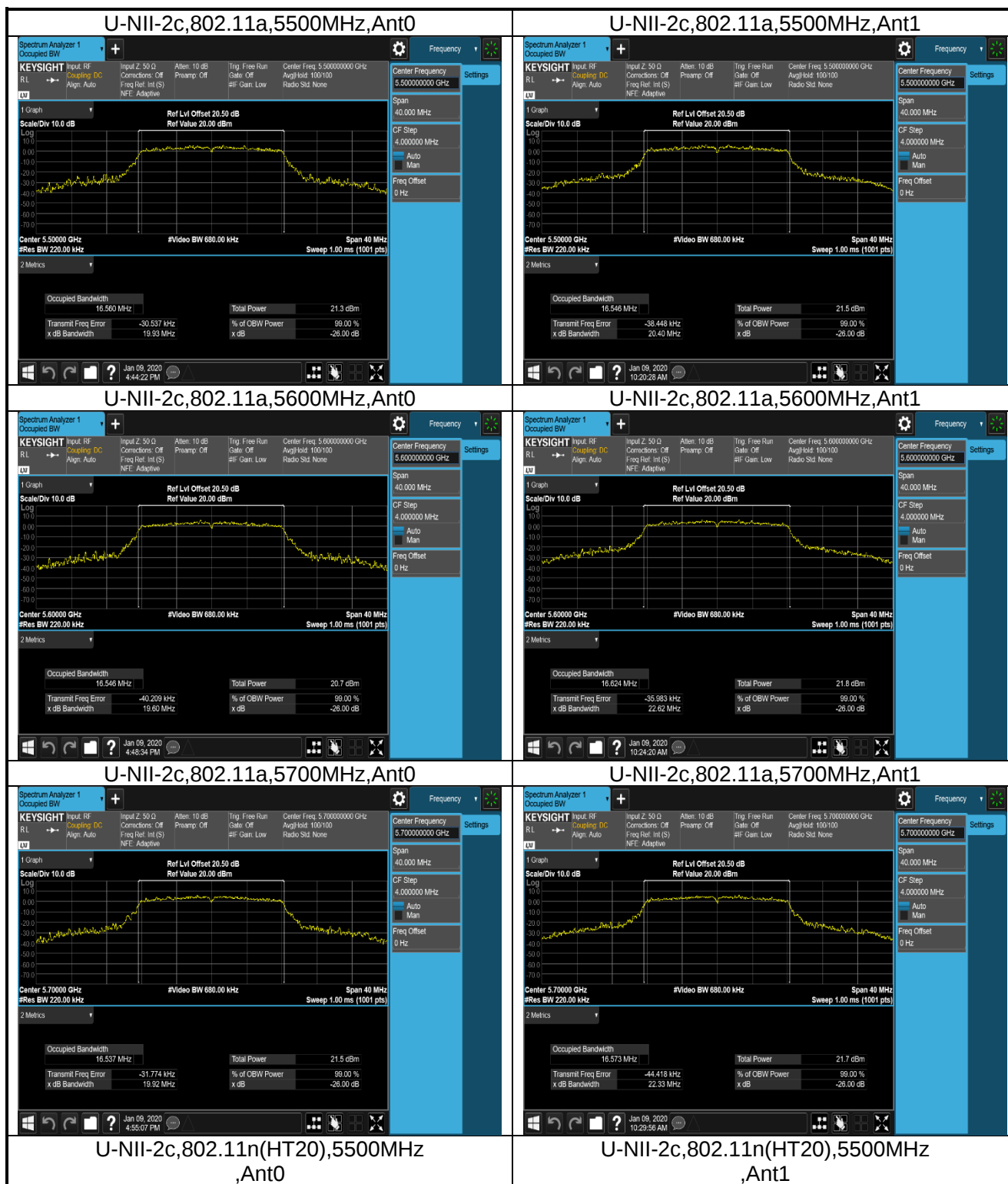
U-NII-2c,802.11ac(VHT80),5610MHz
,Ant1

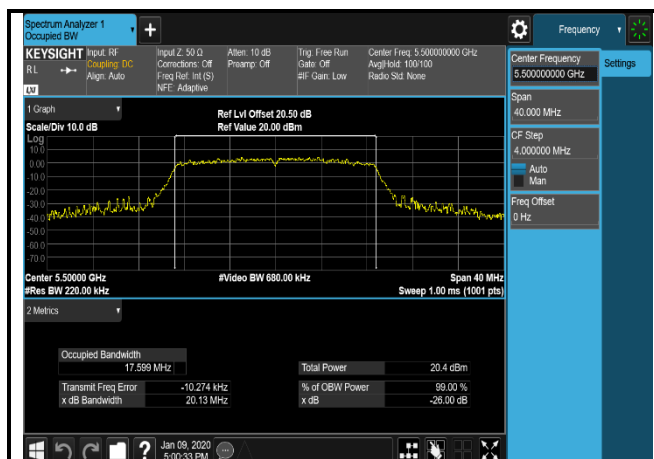
2. 99% Occupied Bandwidth

2.1 Test Data

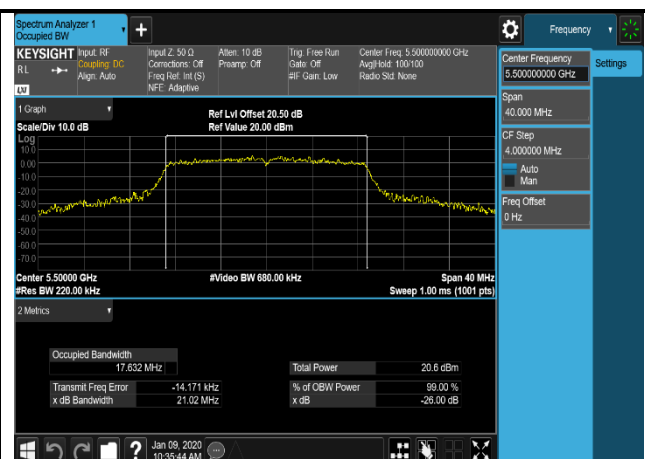
U-NII-2c 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5500	Ant0	16.560	Pass
802.11a	5500	Ant1	16.546	Pass
802.11a	5600	Ant0	16.546	Pass
802.11a	5600	Ant1	16.624	Pass
802.11a	5700	Ant0	16.537	Pass
802.11a	5700	Ant1	16.573	Pass
802.11n (HT20)	5500	Ant0	17.599	Pass
802.11n (HT20)	5500	Ant1	17.632	Pass
802.11n (HT20)	5600	Ant0	17.577	Pass
802.11n (HT20)	5600	Ant1	17.654	Pass
802.11n (HT20)	5700	Ant0	17.605	Pass
802.11n (HT20)	5700	Ant1	17.599	Pass
802.11n (HT40)	5510	Ant0	36.179	Pass
802.11n (HT40)	5510	Ant1	36.189	Pass
802.11n (HT40)	5590	Ant0	36.220	Pass
802.11n (HT40)	5590	Ant1	36.167	Pass
802.11n (HT40)	5670	Ant0	36.224	Pass
802.11n (HT40)	5670	Ant1	36.259	Pass
802.11ac (VHT80)	5530	Ant0	75.741	Pass
802.11ac (VHT80)	5530	Ant1	75.693	Pass
802.11ac (VHT80)	5610	Ant0	75.781	Pass
802.11ac (VHT80)	5610	Ant1	75.789	Pass

2.2 Test Plots

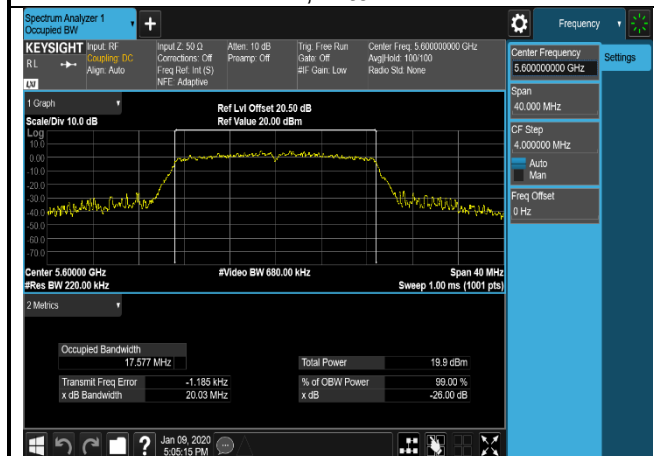




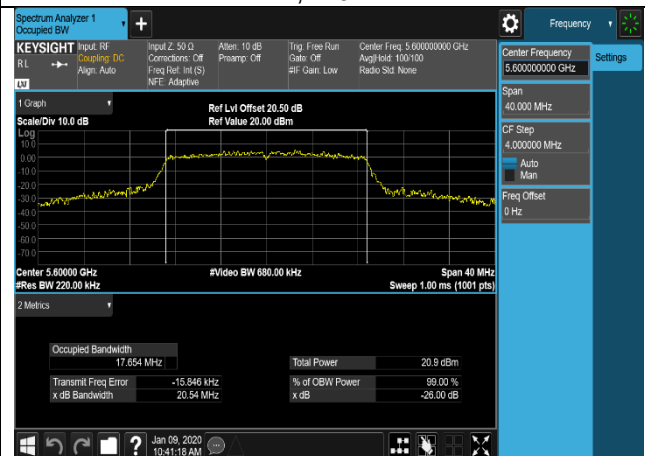
U-NII-2c,802.11n(HT20),5600MHz
,Ant0



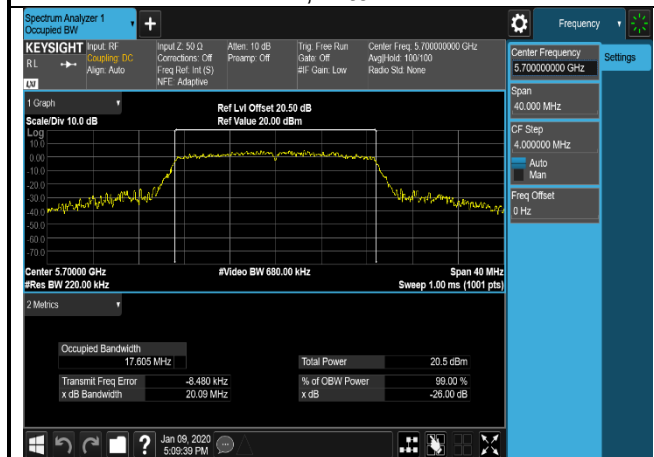
U-NII-2c,802.11n(HT20),5600MHz
,Ant1



U-NII-2c,802.11n(HT20),5700MHz
,Ant0



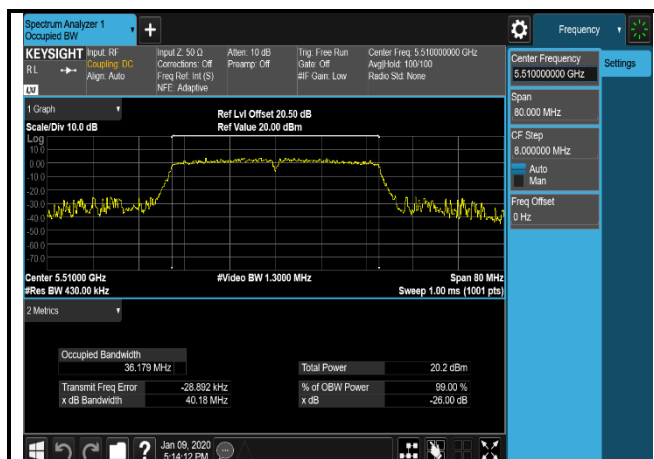
U-NII-2c,802.11n(HT20),5700MHz
,Ant1



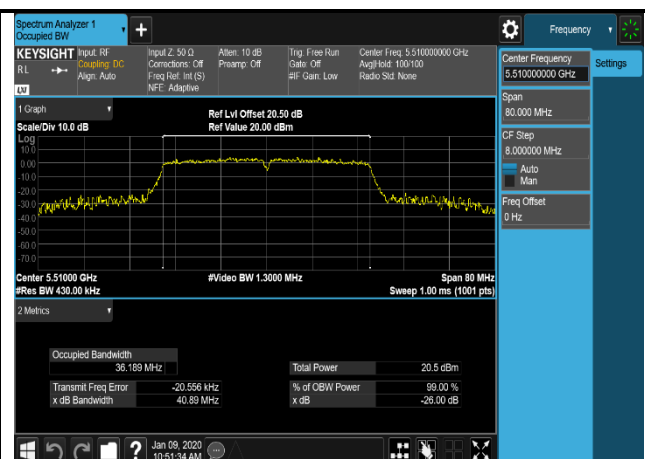
U-NII-2c,802.11n(HT40),5510MHz
,Ant0



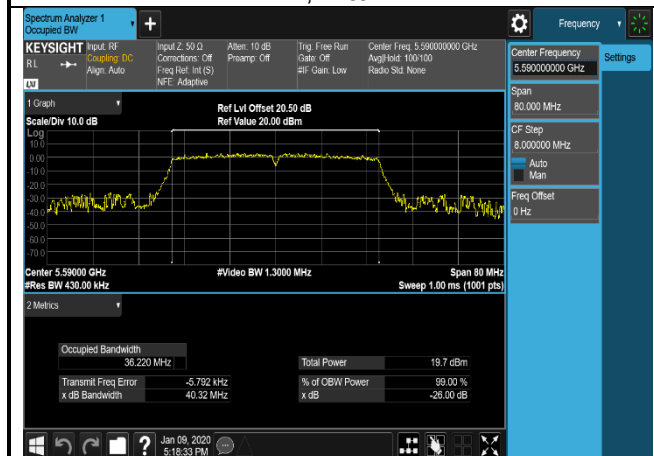
U-NII-2c,802.11n(HT40),5510MHz
,Ant1



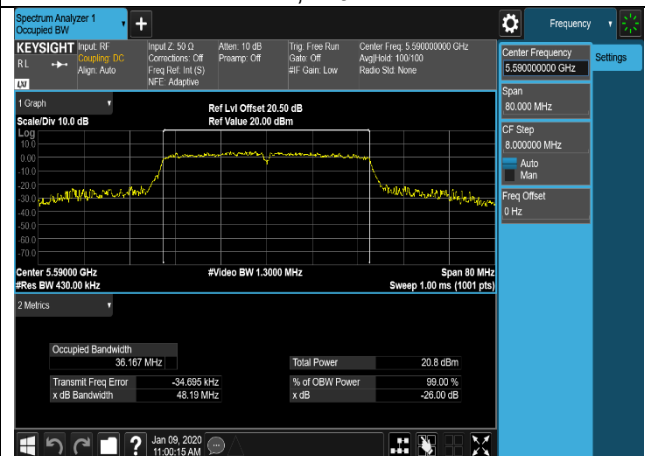
U-NII-2c,802.11n(HT40),5590MHz
,Ant0



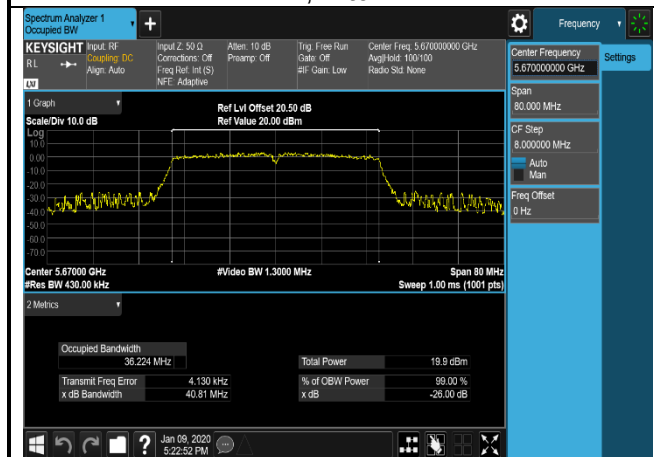
U-NII-2c,802.11n(HT40),5590MHz
,Ant1



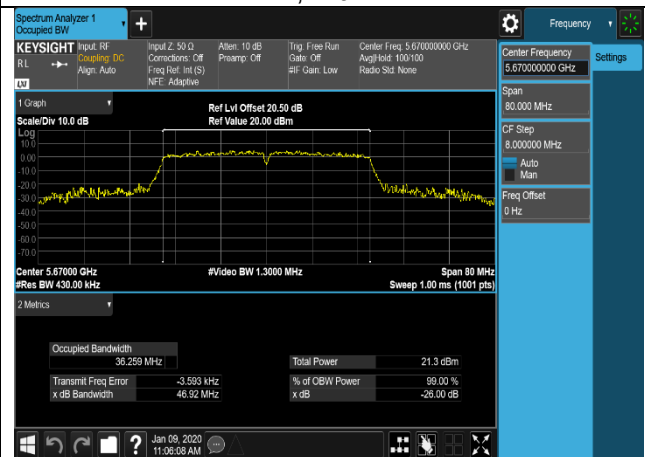
U-NII-2c,802.11n(HT40),5670MHz
,Ant0



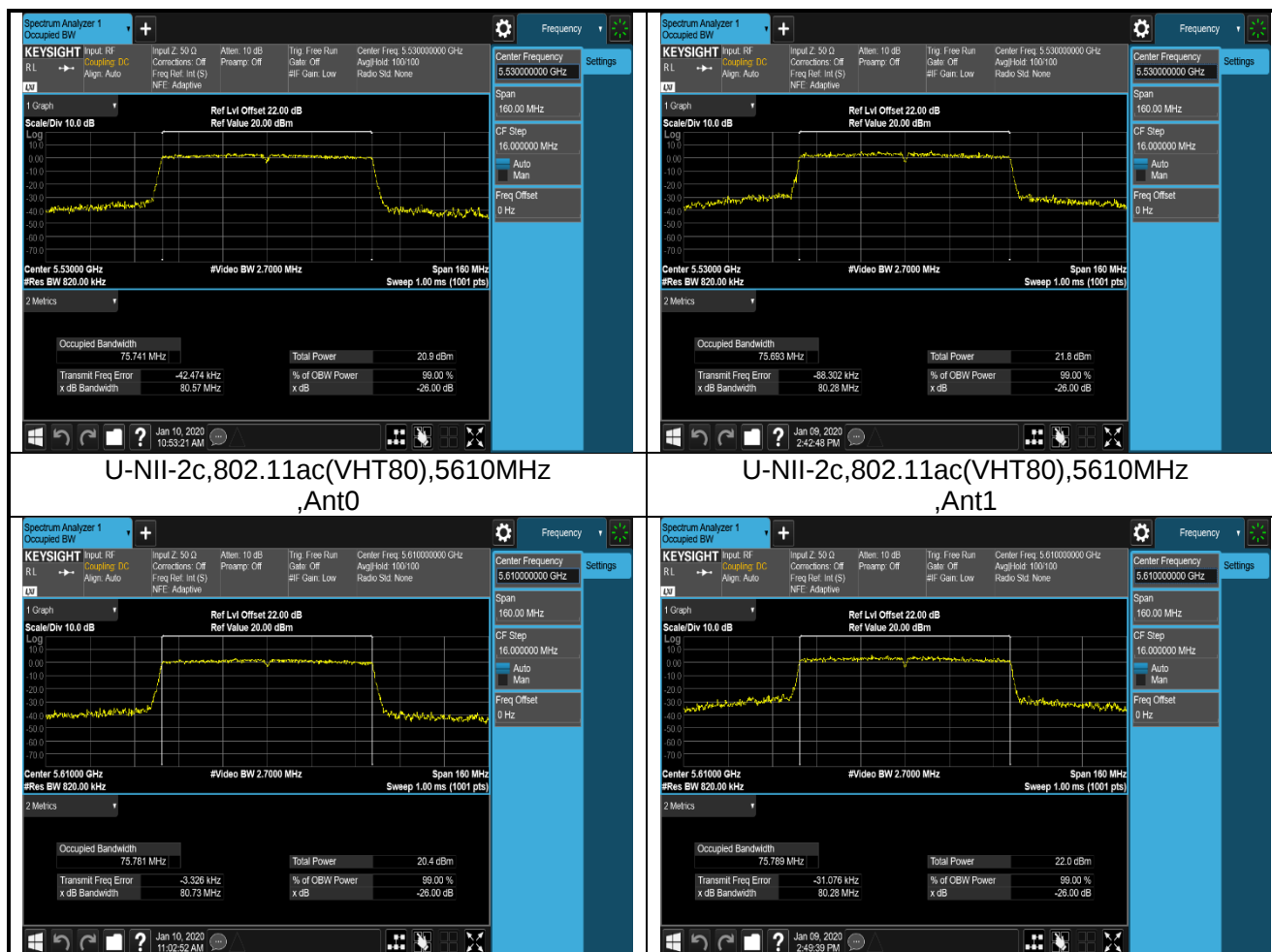
U-NII-2c,802.11n(HT40),5670MHz
,Ant1



U-NII-2c,802.11ac(VHT80),5530MHz
,Ant0



U-NII-2c,802.11ac(VHT80),5530MHz
,Ant1

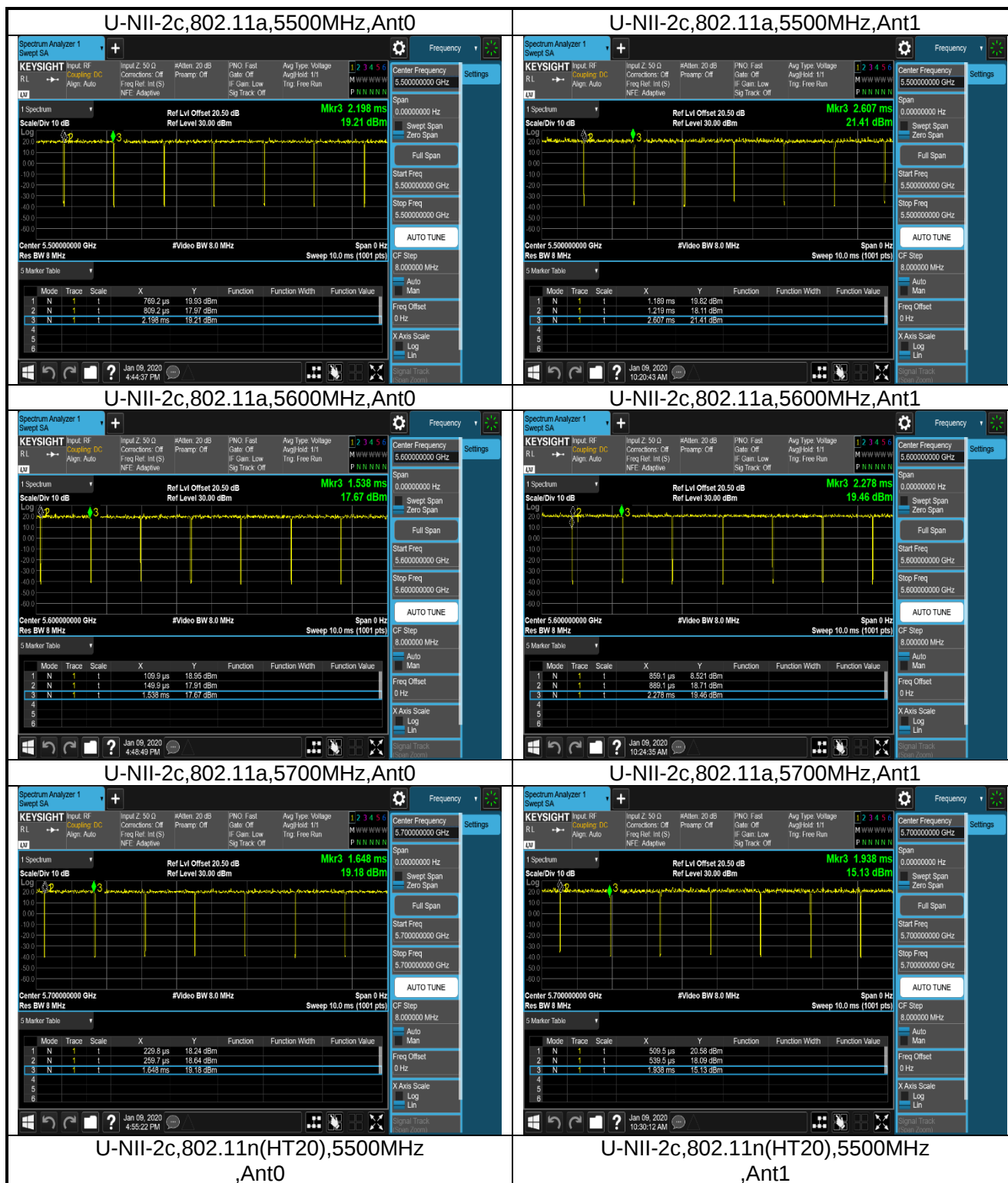


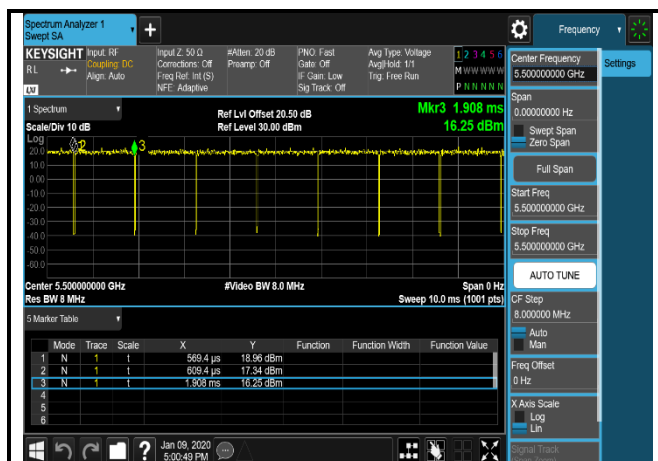
3. Duty Cycle

3.1 Test Data

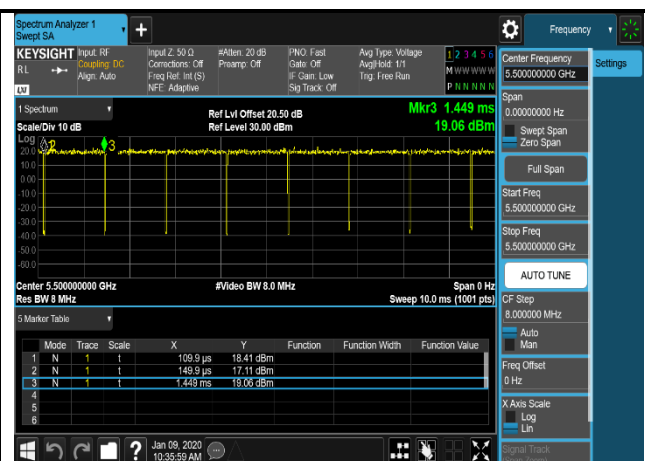
U-NII-2c Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5500	Ant0	97.20	0.12
802.11a	5500	Ant1	97.89	0.09
802.11a	5600	Ant0	97.20	0.12
802.11a	5600	Ant1	97.89	0.09
802.11a	5700	Ant0	97.89	0.09
802.11a	5700	Ant1	97.90	0.09
802.11n (HT20)	5500	Ant0	97.01	0.13
802.11n (HT20)	5500	Ant1	97.01	0.13
802.11n (HT20)	5600	Ant0	97.01	0.13
802.11n (HT20)	5600	Ant1	97.74	0.10
802.11n (HT20)	5700	Ant0	97.74	0.10
802.11n (HT20)	5700	Ant1	97.74	0.10
802.11n (HT40)	5510	Ant0	94.20	0.26
802.11n (HT40)	5510	Ant1	94.20	0.26
802.11n (HT40)	5590	Ant0	94.20	0.26
802.11n (HT40)	5590	Ant1	94.20	0.26
802.11n (HT40)	5670	Ant0	94.20	0.26
802.11n (HT40)	5670	Ant1	94.20	0.26
802.11ac (VHT80)	5530	Ant0	84.25	0.74
802.11ac (VHT80)	5530	Ant1	84.18	0.75
802.11ac (VHT80)	5610	Ant0	84.25	0.74
802.11ac (VHT80)	5610	Ant1	84.11	0.75

3.2 Test Plots

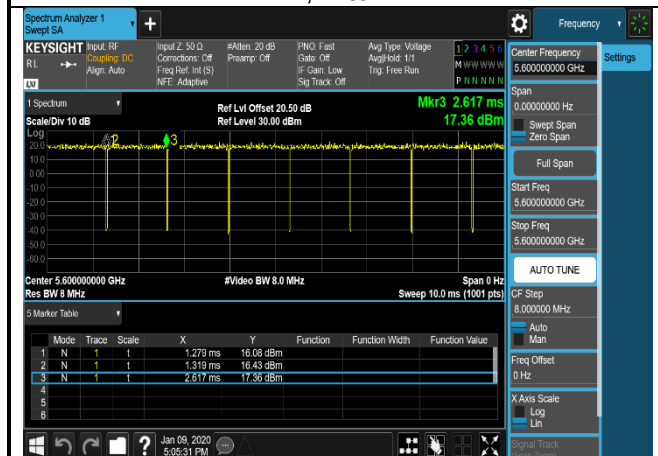




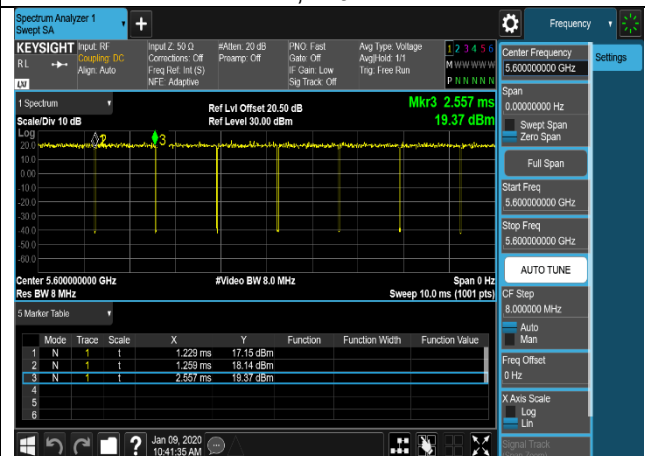
U-NII-2c,802.11n(HT20),5600MHz
,Ant0



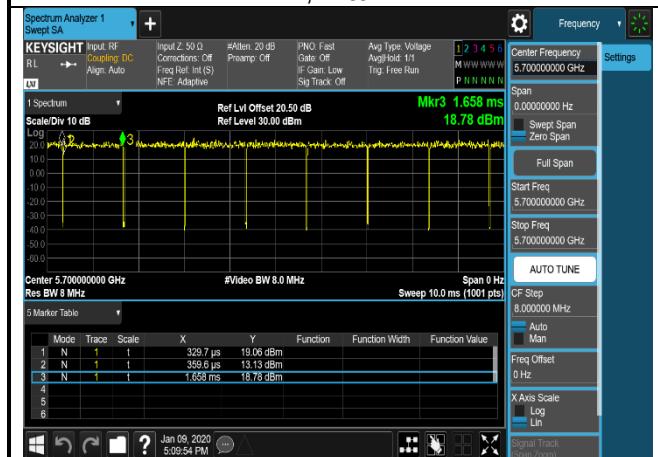
U-NII-2c,802.11n(HT20),5600MHz
,Ant1



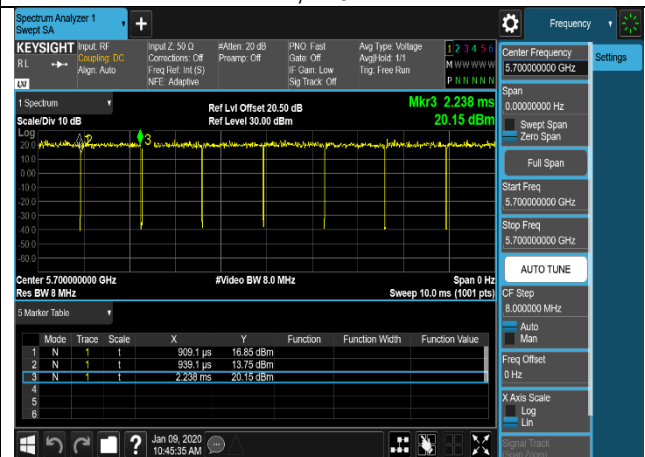
U-NII-2c,802.11n(HT20),5700MHz
,Ant0



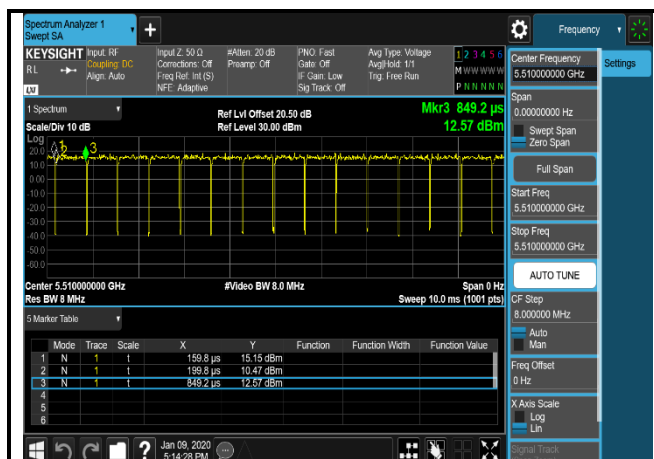
U-NII-2c,802.11n(HT20),5700MHz
,Ant1



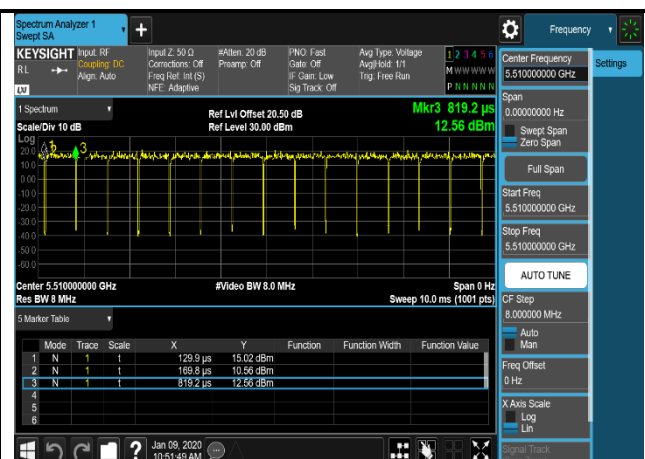
U-NII-2c,802.11n(HT40),5510MHz
,Ant0



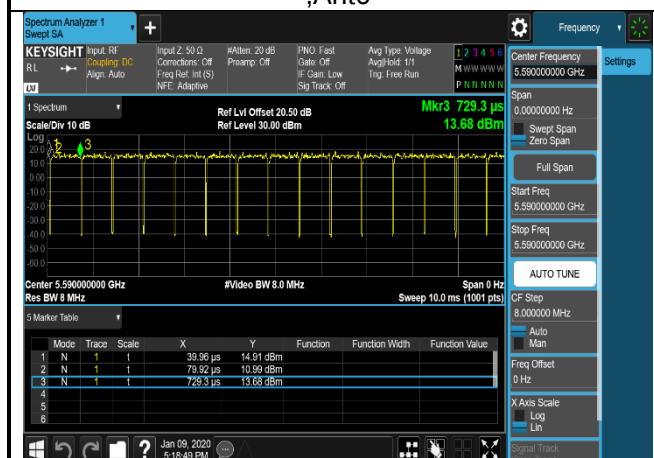
U-NII-2c,802.11n(HT40),5510MHz
,Ant1



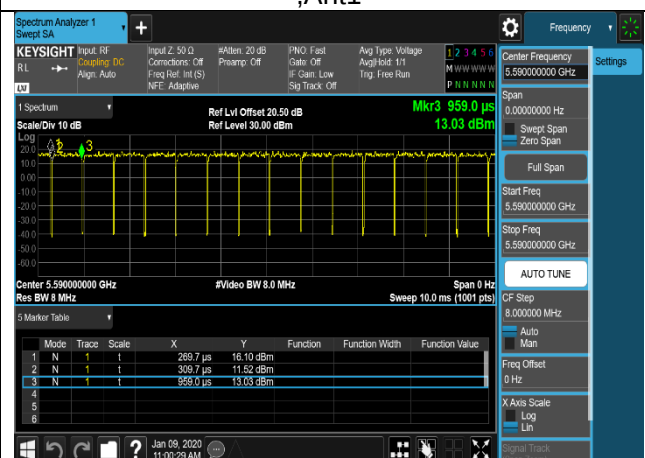
U-NII-2c,802.11n(HT40),5590MHz
,Ant0



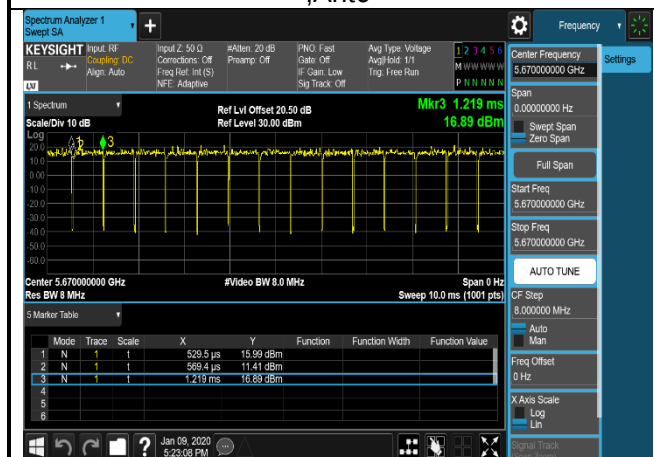
U-NII-2c,802.11n(HT40),5590MHz
,Ant1



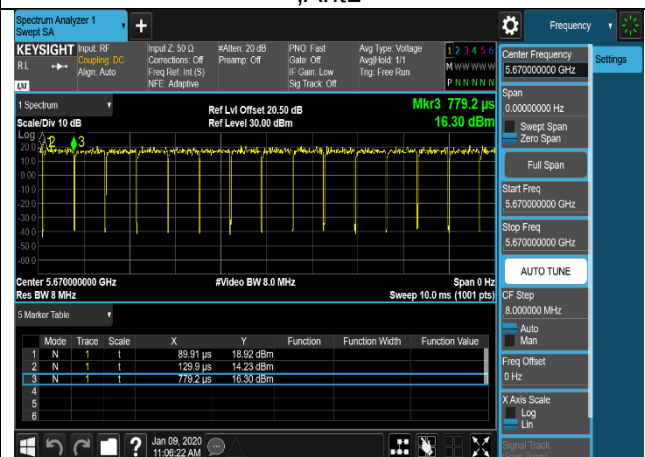
U-NII-2c,802.11n(HT40),5670MHz
,Ant0



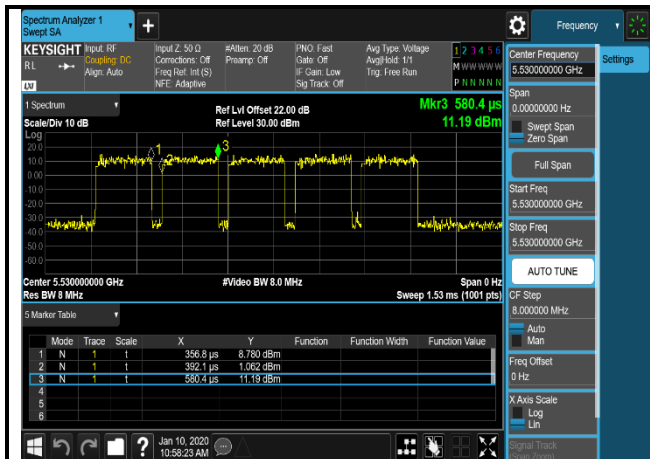
U-NII-2c,802.11n(HT40),5670MHz
,Ant1



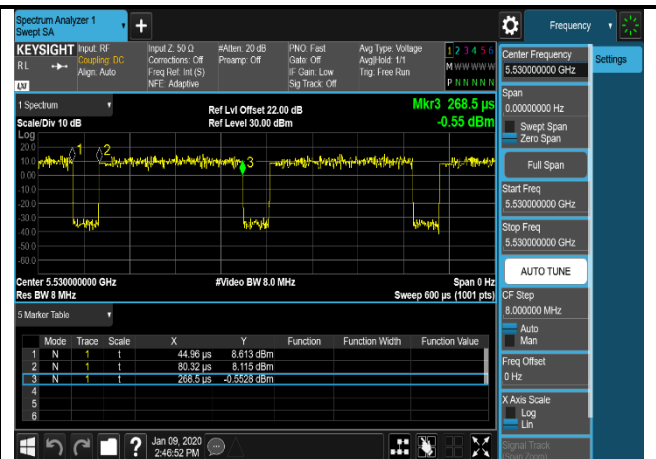
U-NII-2c,802.11ac(VHT80),5530MHz
,Ant0



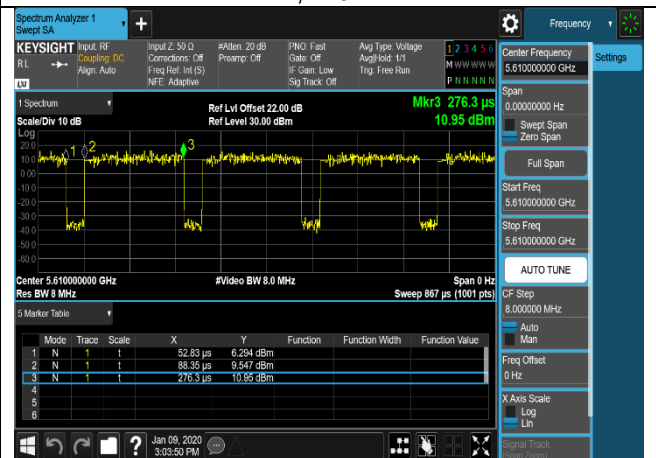
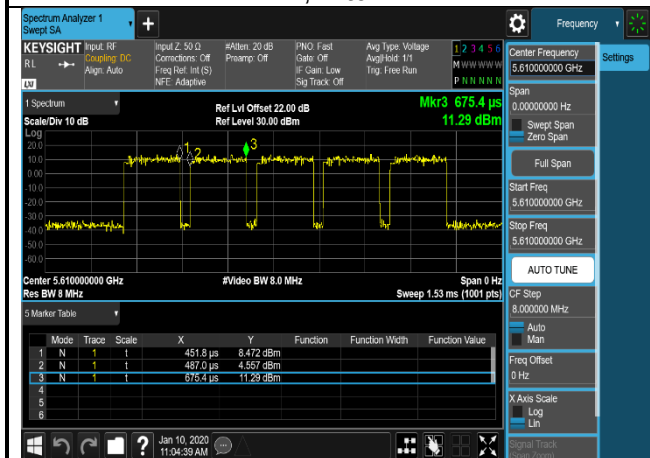
U-NII-2c,802.11ac(VHT80),5530MHz
,Ant1



U-NII-2c,802.11ac(VHT80),5610MHz
,Ant0



U-NII-2c,802.11ac(VHT80),5610MHz
,Ant1



4. AVGSA Output Power

4.1 Test Data

U-NII-2a AVGSA Output Power									
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Total Power (dBm)	FCC Limit (dBm)	IC Limit (dBm)	EIRP (dBm)	Result
802.11a	5500	Ant0	0.12	15.69	15.69	24	23	17.52	Pass
802.11a	5500	Ant1	0.09	15.80	15.80	24	23	17.33	Pass
802.11a	5600	Ant0	0.12	15.03	15.03	24	23	16.86	Pass
802.11a	5600	Ant1	0.09	16.10	16.10	24	23	17.63	Pass
802.11a	5700	Ant0	0.09	15.81	15.81	24	23	17.64	Pass
802.11a	5700	Ant1	0.09	16.03	16.03	24	23	17.56	Pass
802.11n (HT20)	5500	Ant0	0.13	14.53	17.67	24	23	19.35	Pass
802.11n (HT20)	5500	Ant1	0.13	14.78					
802.11n (HT20)	5600	Ant0	0.13	13.91	17.50	24	23	19.18	Pass
802.11n (HT20)	5600	Ant1	0.10	15.00					
802.11n (HT20)	5700	Ant0	0.10	14.72	17.88	24	23	19.57	Pass
802.11n (HT20)	5700	Ant1	0.10	15.02					
802.11n (HT40)	5510	Ant0	0.26	14.43	17.52	24	24	19.20	Pass
802.11n (HT40)	5510	Ant1	0.26	14.58					
802.11n (HT40)	5590	Ant0	0.26	13.75	17.36	24	24	19.04	Pass
802.11n (HT40)	5590	Ant1	0.26	14.88					
802.11n (HT40)	5670	Ant0	0.26	14.05	17.76	24	24	19.45	Pass
802.11n (HT40)	5670	Ant1	0.26	15.36					
802.11ac (VHT80)	5530	Ant0	0.74	12.85	16.05	24	24	17.73	Pass
802.11ac (VHT80)	5530	Ant1	0.75	13.22					
802.11ac (VHT80)	5610	Ant0	0.74	12.44	16.07	24	24	17.76	Pass
802.11ac (VHT80)	5610	Ant1	0.75	13.61					