

TEST REPORT

Appendix C: Test results

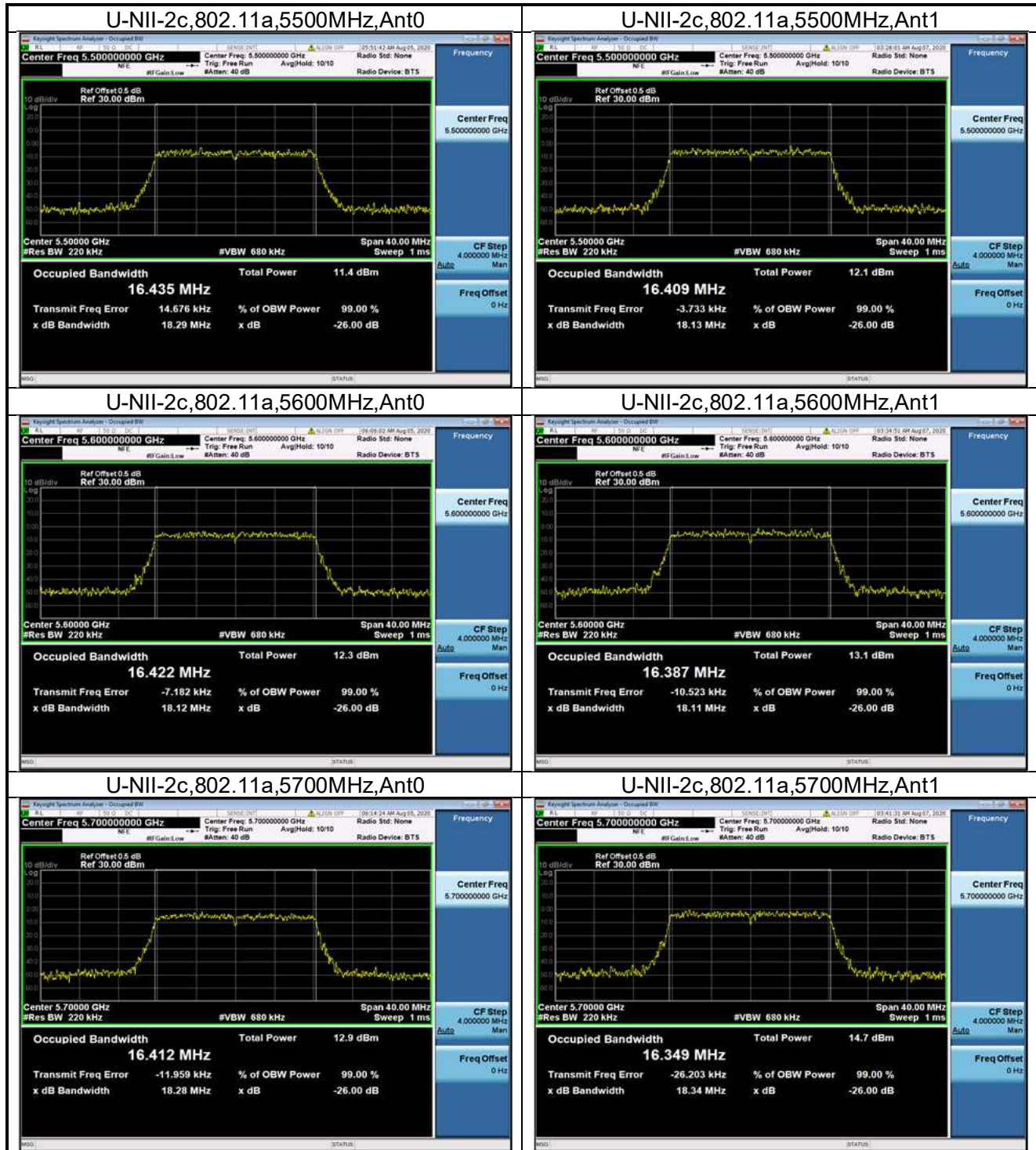
1. Occupied N dB Bandwidth

1.1 Test Data

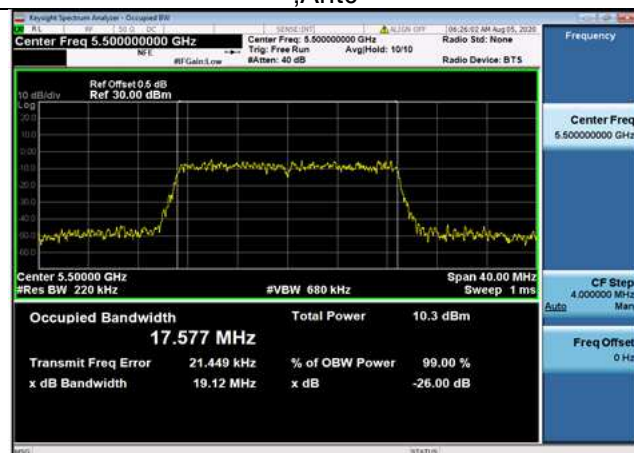
U-NII-2c Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5500	Ant0	18.29	Pass
802.11a	5500	Ant1	18.13	Pass
802.11a	5600	Ant0	18.12	Pass
802.11a	5600	Ant1	18.11	Pass
802.11a	5700	Ant0	18.28	Pass
802.11a	5700	Ant1	18.34	Pass
802.11n (HT20)	5500	Ant0	19.12	Pass
802.11n (HT20)	5500	Ant1	19.02	Pass
802.11n (HT20)	5600	Ant0	19.03	Pass
802.11n (HT20)	5600	Ant1	18.70	Pass
802.11n (HT20)	5700	Ant0	18.81	Pass
802.11n (HT20)	5700	Ant1	19.33	Pass
802.11n (HT40)	5510	Ant0	39.97	Pass
802.11n (HT40)	5510	Ant1	40.23	Pass
802.11n (HT40)	5590	Ant0	40.00	Pass
802.11n (HT40)	5590	Ant1	39.94	Pass
802.11n (HT40)	5670	Ant0	39.73	Pass
802.11n (HT40)	5670	Ant1	40.15	Pass
802.11ac (VHT80)	5530	Ant0	79.82	Pass
802.11ac (VHT80)	5530	Ant1	79.28	Pass
802.11ac (VHT80)	5610	Ant0	79.23	Pass
802.11ac (VHT80)	5610	Ant1	78.56	Pass

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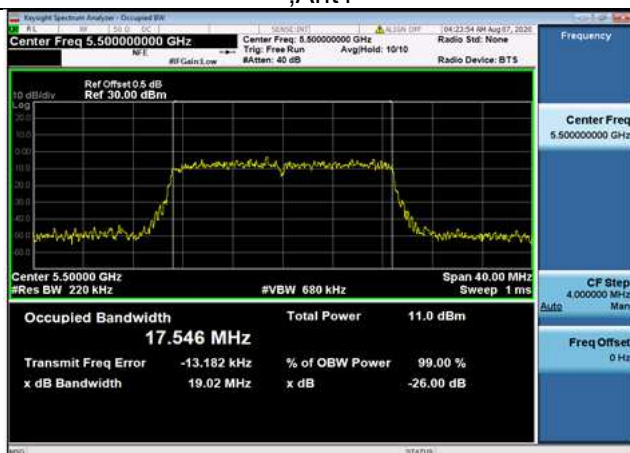
1.2 Test Plots



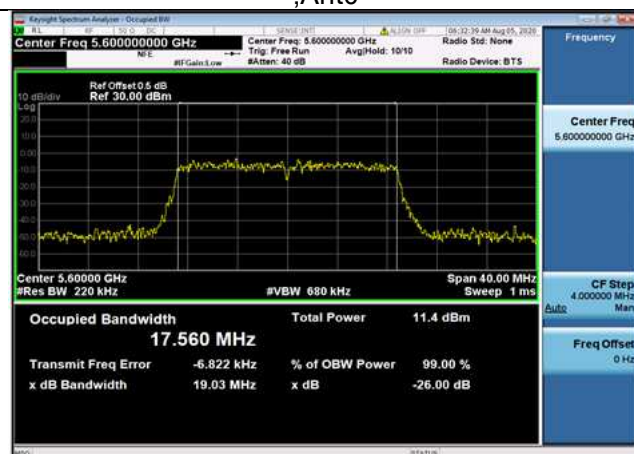
U-NII-2c,802.11n(HT20),5500MHz
.Ant0



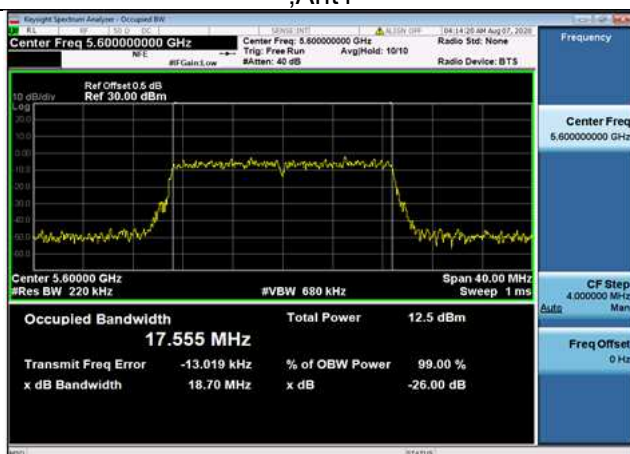
U-NII-2c,802.11n(HT20),5500MHz
.Ant1



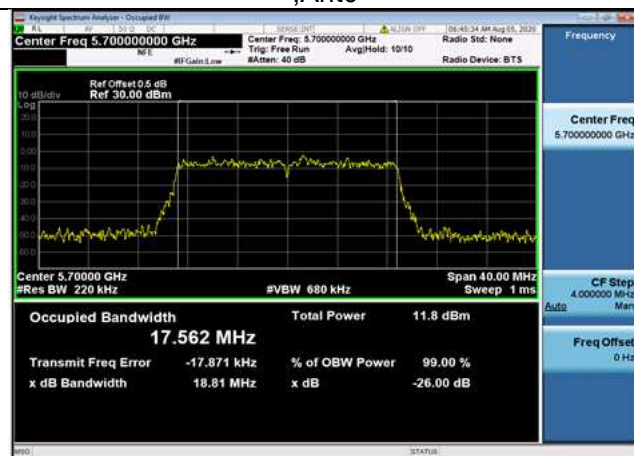
U-NII-2c,802.11n(HT20),5600MHz
.Ant0



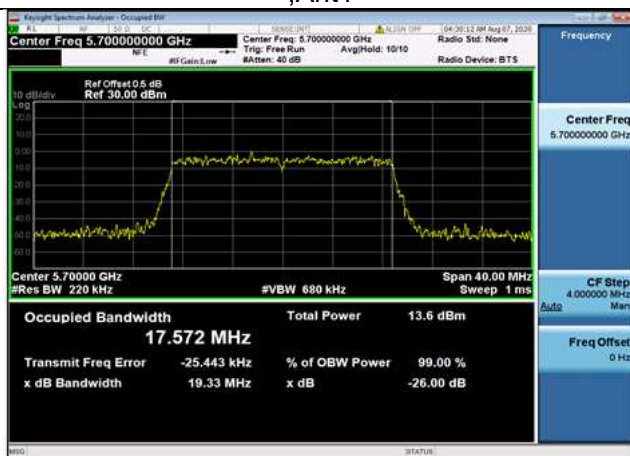
U-NII-2c,802.11n(HT20),5600MHz
.Ant1



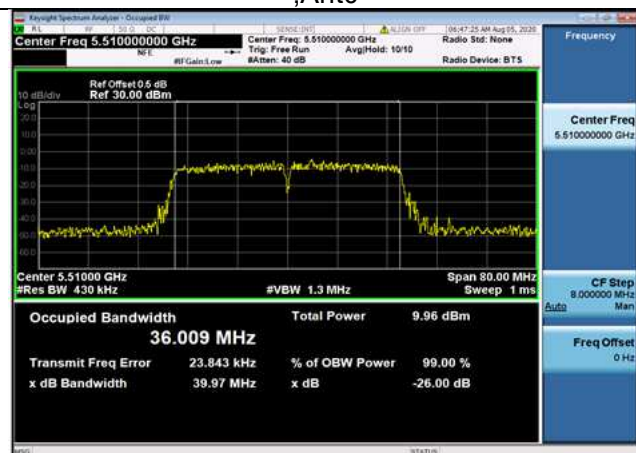
U-NII-2c,802.11n(HT20),5700MHz
.Ant0



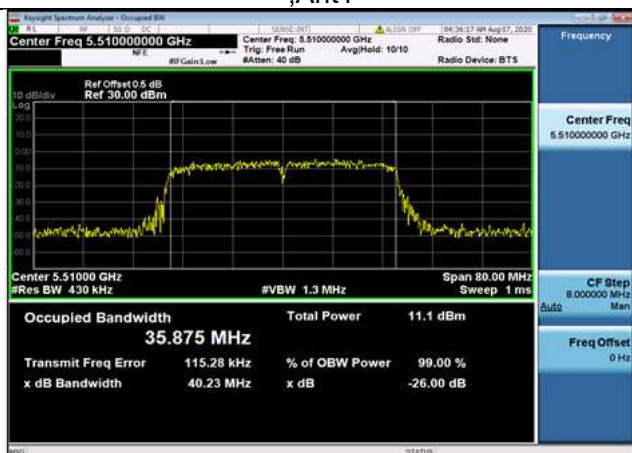
U-NII-2c,802.11n(HT20),5700MHz
.Ant1



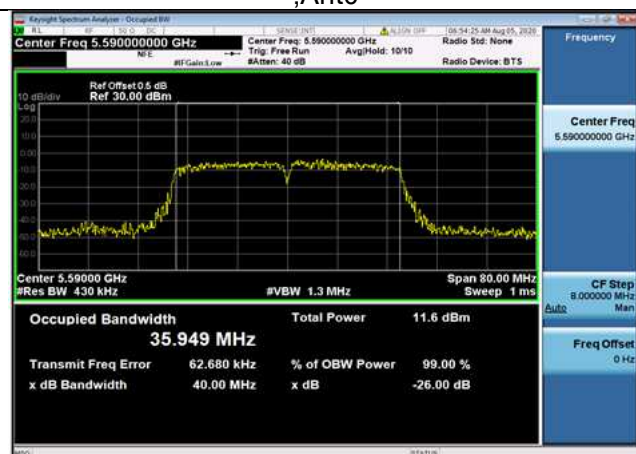
U-NII-2c,802.11n(HT40),5510MHz
,Ant0



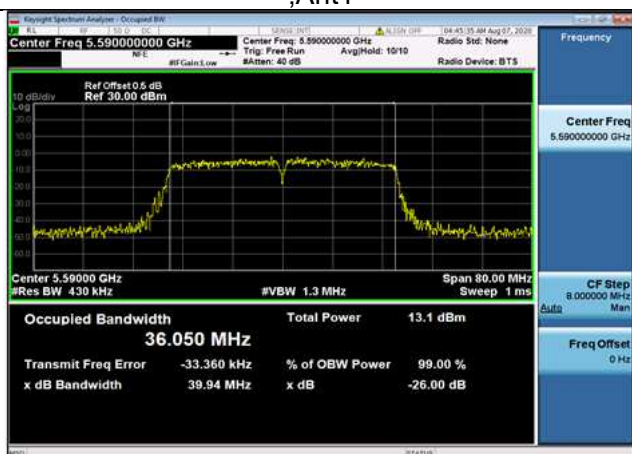
U-NII-2c,802.11n(HT40),5510MHz
,Ant1



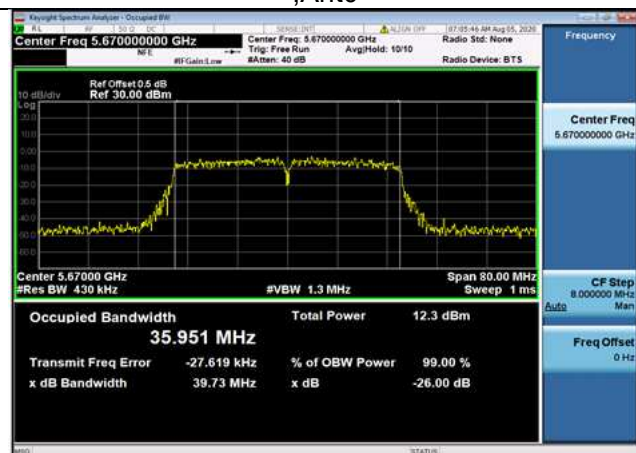
U-NII-2c,802.11n(HT40),5590MHz
,Ant0



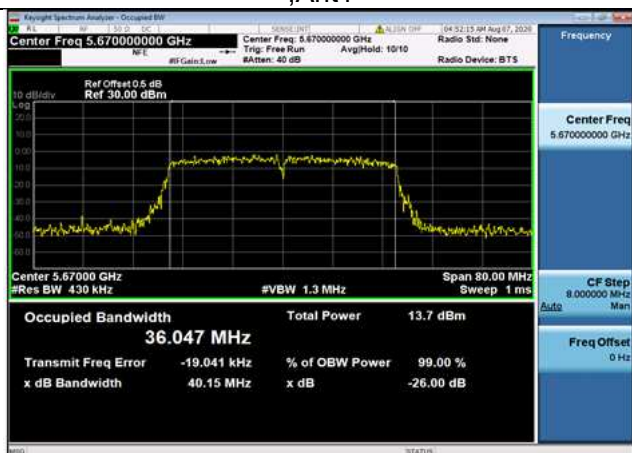
U-NII-2c,802.11n(HT40),5590MHz
,Ant1



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



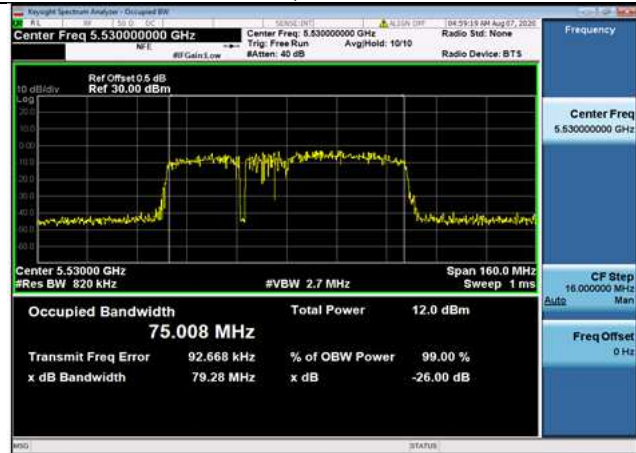
U-NII-2c,802.11n(HT40),5670MHz
,Ant1



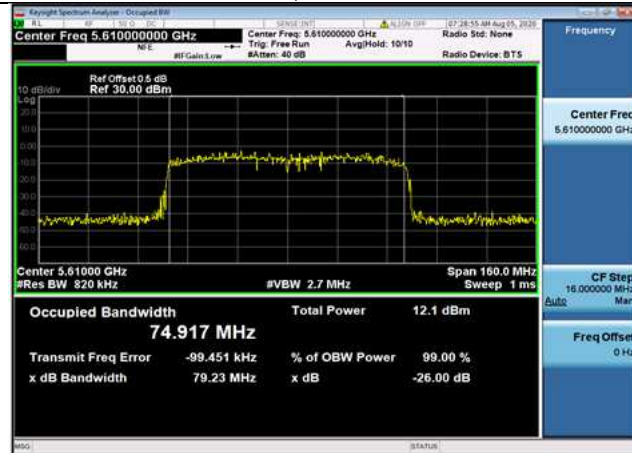
U-NII-2c,802.11ac(VHT80),5530MHz
,Ant0



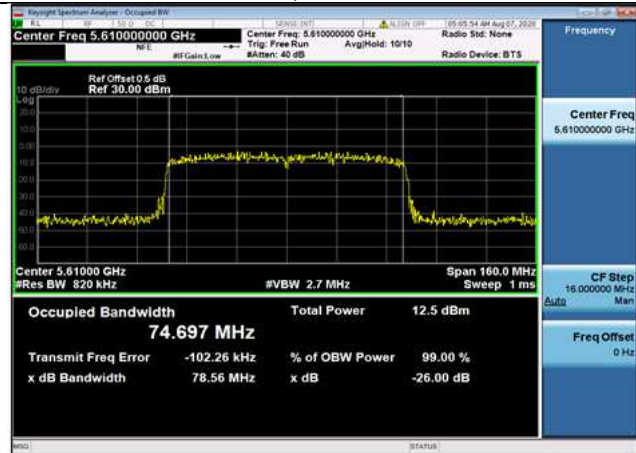
U-NII-2c,802.11ac(VHT80),5530MHz
,Ant1



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



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



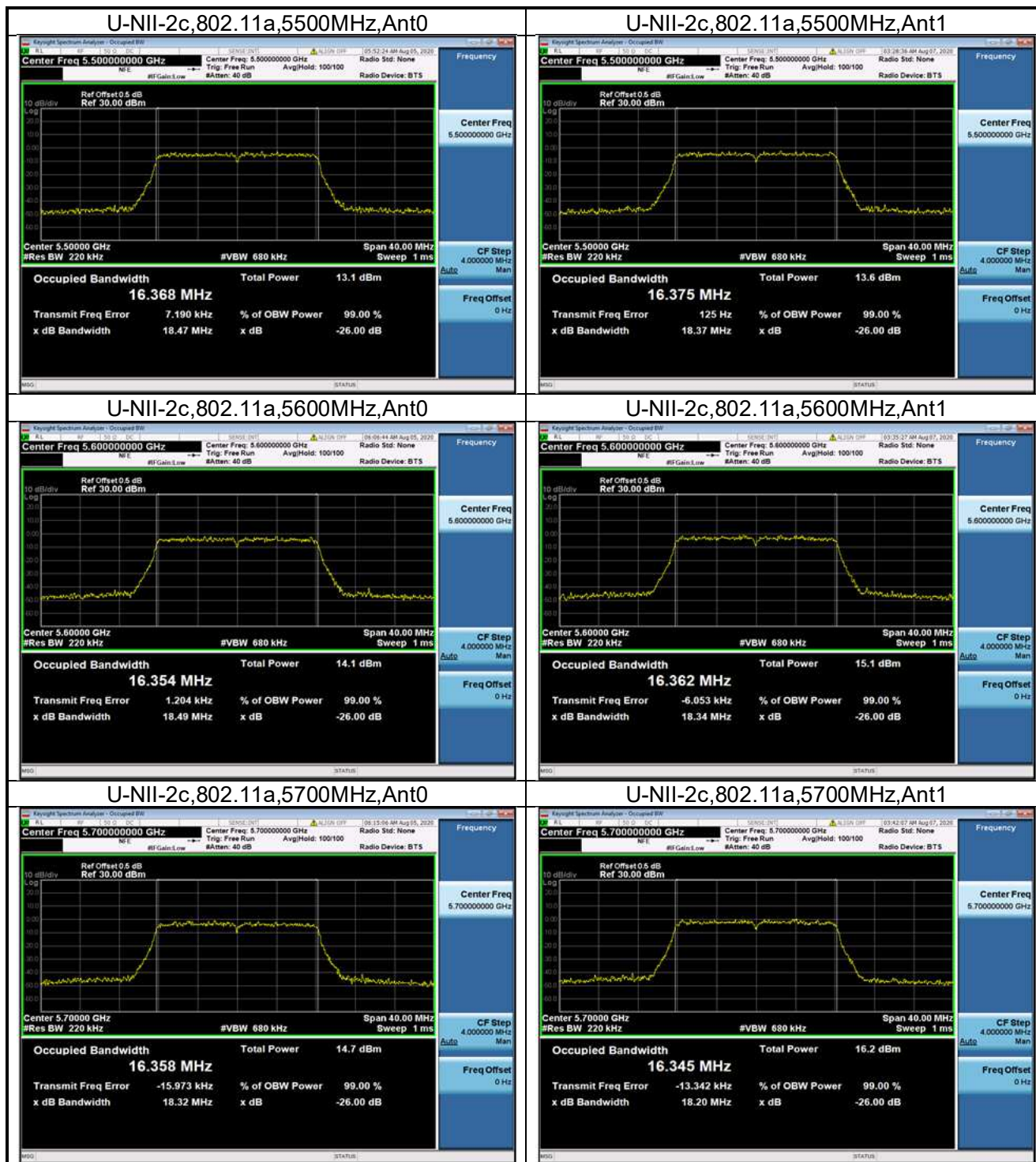
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2. 99% Occupied Bandwidth

2.1 Test Data

U-NII-2c 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5500	Ant0	16.368	Pass
802.11a	5500	Ant1	16.375	Pass
802.11a	5600	Ant0	16.354	Pass
802.11a	5600	Ant1	16.362	Pass
802.11a	5700	Ant0	16.358	Pass
802.11a	5700	Ant1	16.345	Pass
802.11n (HT20)	5500	Ant0	17.563	Pass
802.11n (HT20)	5500	Ant1	17.546	Pass
802.11n (HT20)	5600	Ant0	17.558	Pass
802.11n (HT20)	5600	Ant1	17.530	Pass
802.11n (HT20)	5700	Ant0	17.544	Pass
802.11n (HT20)	5700	Ant1	17.552	Pass
802.11n (HT40)	5510	Ant0	36.123	Pass
802.11n (HT40)	5510	Ant1	36.020	Pass
802.11n (HT40)	5590	Ant0	35.998	Pass
802.11n (HT40)	5590	Ant1	36.104	Pass
802.11n (HT40)	5670	Ant0	36.102	Pass
802.11n (HT40)	5670	Ant1	36.047	Pass
802.11ac (VHT80)	5530	Ant0	74.725	Pass
802.11ac (VHT80)	5530	Ant1	74.549	Pass
802.11ac (VHT80)	5610	Ant0	74.644	Pass
802.11ac (VHT80)	5610	Ant1	74.623	Pass

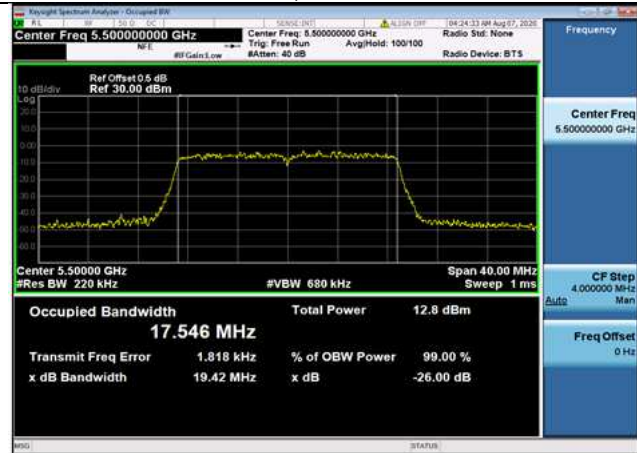
2.2 Test Plots



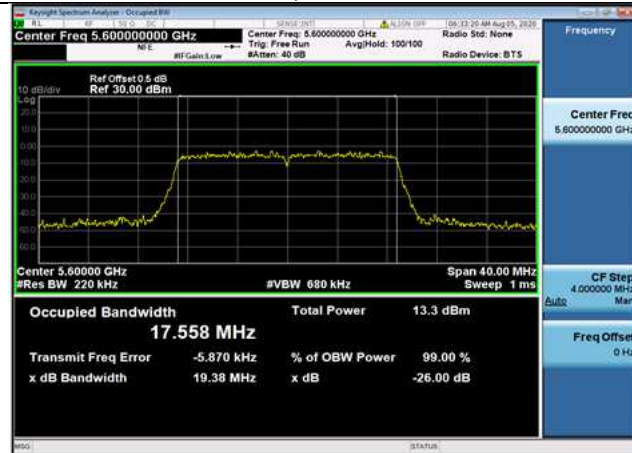
U-NII-2c,802.11n(HT20),5500MHz
,Ant0



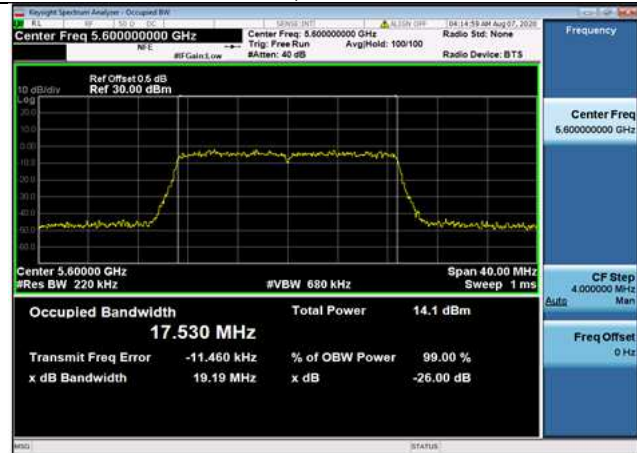
U-NII-2c,802.11n(HT20),5500MHz
,Ant1



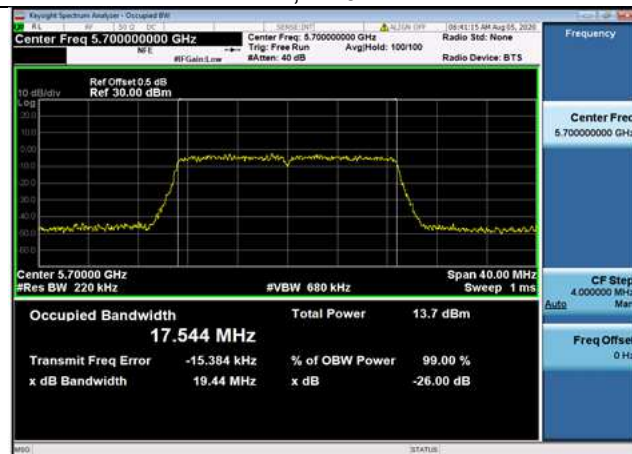
U-NII-2c,802.11n(HT20),5600MHz
,Ant0



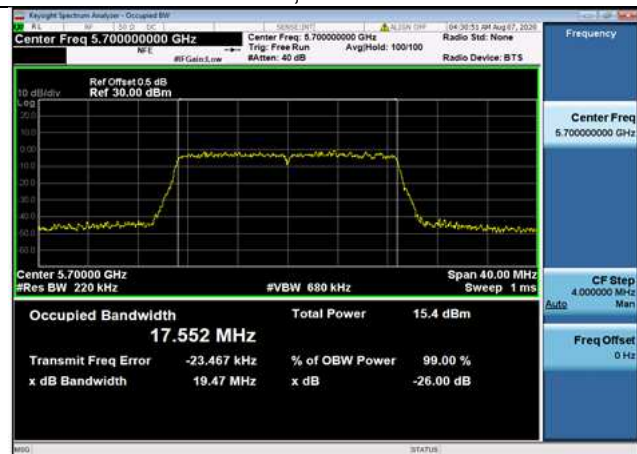
U-NII-2c,802.11n(HT20),5600MHz
,Ant1



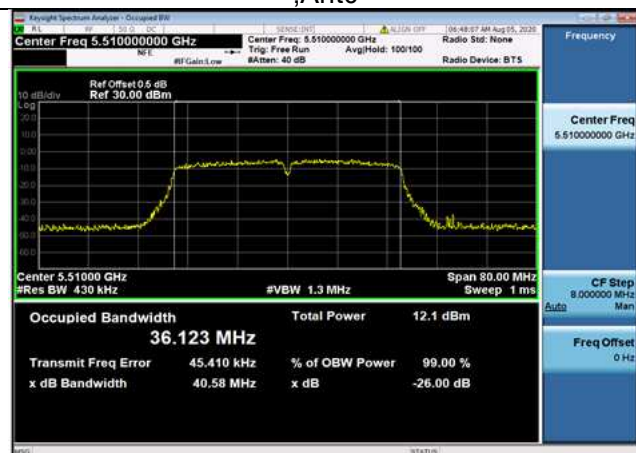
U-NII-2c,802.11n(HT20),5700MHz
,Ant0



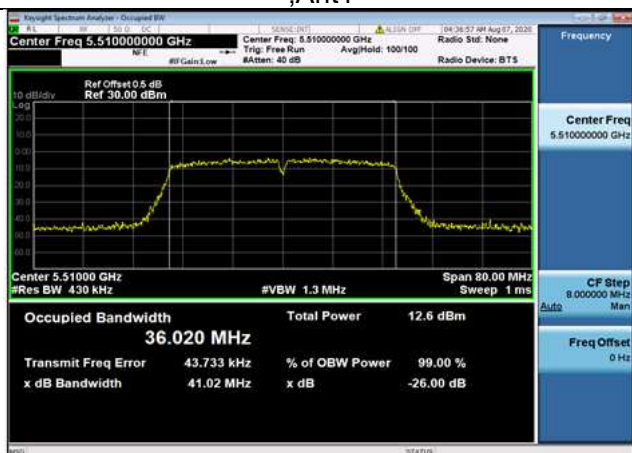
U-NII-2c,802.11n(HT20),5700MHz
,Ant1



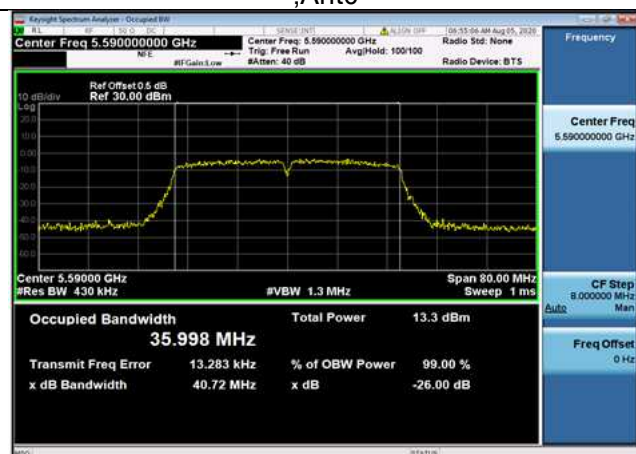
U-NII-2c,802.11n(HT40),5510MHz
,Ant0



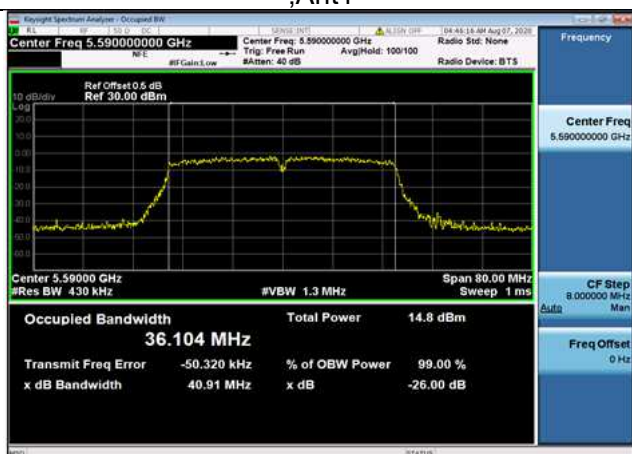
U-NII-2c,802.11n(HT40),5510MHz
,Ant1



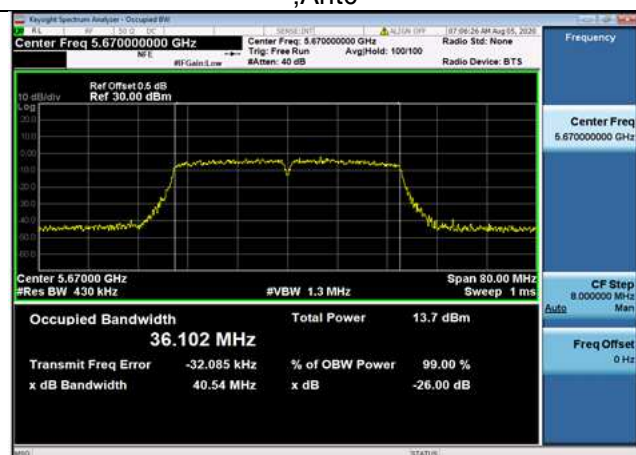
U-NII-2c,802.11n(HT40),5590MHz
,Ant0



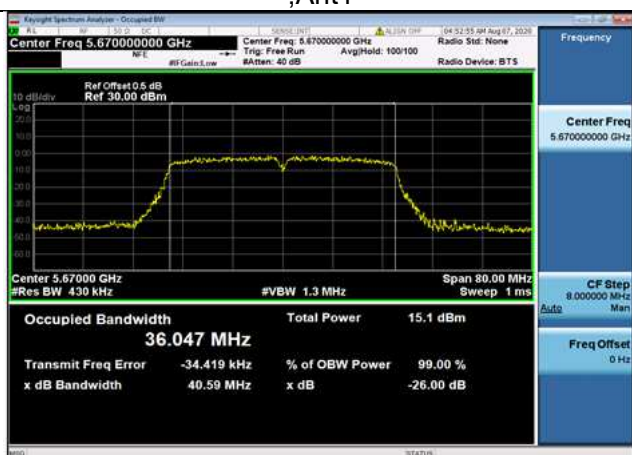
U-NII-2c,802.11n(HT40),5590MHz
,Ant1



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



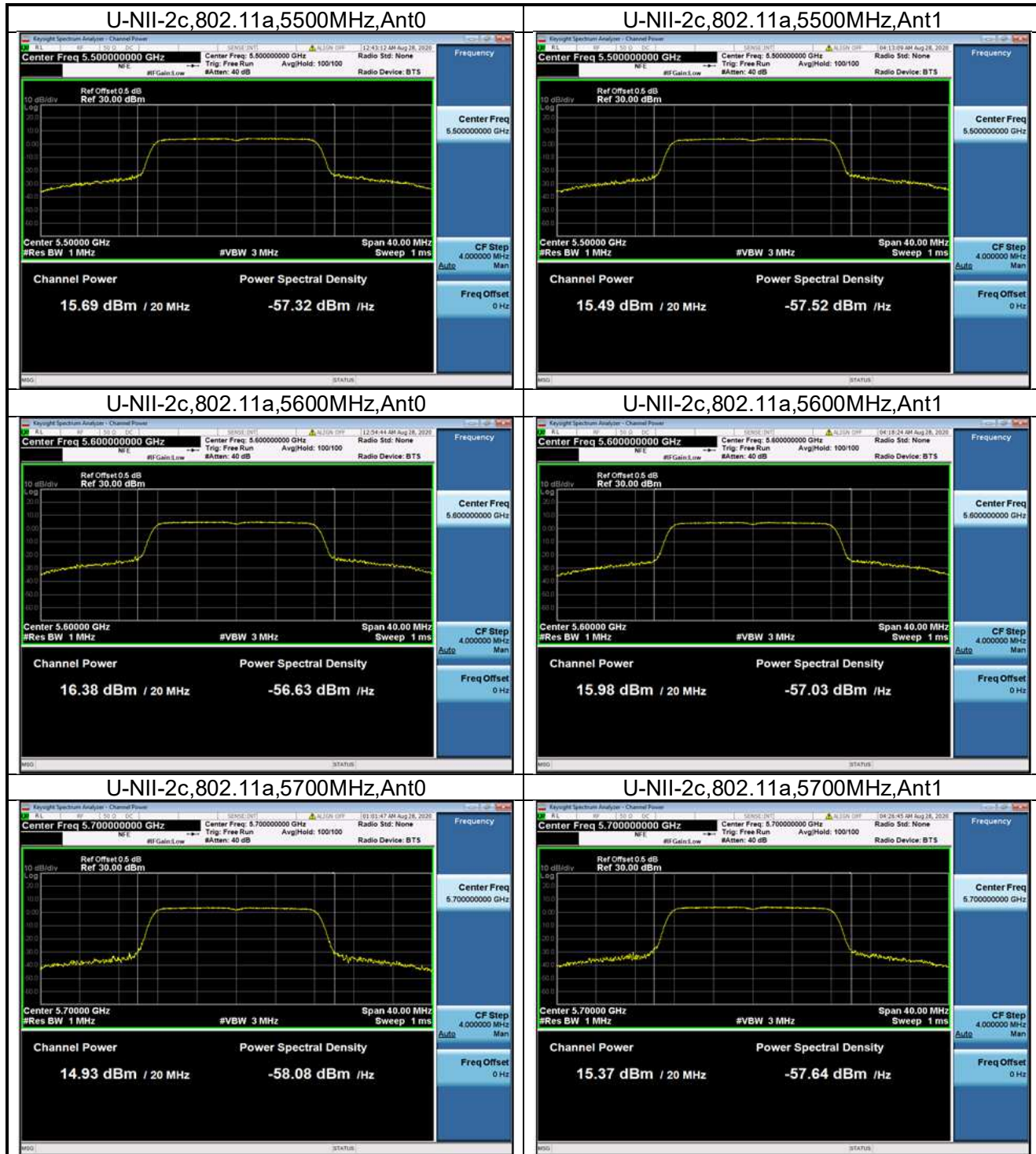
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3. AVGSA Output Power

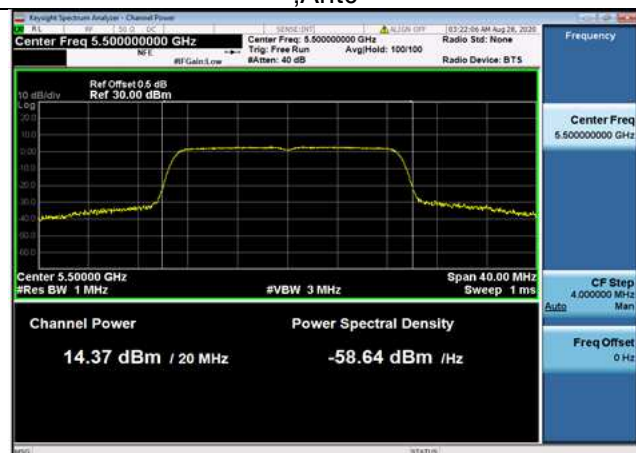
3.1 Test Data

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	0.00	15.69	15.69	24	23	19.37	Pass
802.11a	5500	Ant1	0.00	15.49	15.49	24	23	18.86	Pass
802.11a	5600	Ant0	0.00	16.38	16.38	24	23	20.06	Pass
802.11a	5600	Ant1	0.00	15.98	15.98	24	23	19.35	Pass
802.11a	5700	Ant0	0.00	14.93	14.93	24	23	18.61	Pass
802.11a	5700	Ant1	0.00	15.37	15.37	24	23	18.74	Pass
802.11n (HT20)	5500	Ant0	0.00	14.37	17.65	24	23	21.18	Pass
802.11n (HT20)	5500	Ant1	0.00	14.89					
802.11n (HT20)	5600	Ant0	0.00	14.71	17.90	24	23	21.43	Pass
802.11n (HT20)	5600	Ant1	0.00	15.06					
802.11n (HT20)	5700	Ant0	0.00	14.04	17.31	24	23	20.84	Pass
802.11n (HT20)	5700	Ant1	0.00	14.54					
802.11n (HT40)	5510	Ant0	0.00	13.95	16.82	24	24	20.35	Pass
802.11n (HT40)	5510	Ant1	0.00	13.67					
802.11n (HT40)	5590	Ant0	0.00	14.36	17.27	24	24	20.80	Pass
802.11n (HT40)	5590	Ant1	0.00	14.16					
802.11n (HT40)	5670	Ant0	0.00	14.10	16.80	24	24	20.33	Pass
802.11n (HT40)	5670	Ant1	0.00	13.45					
802.11ac (VHT80)	5530	Ant0	0.00	12.92	16.32	24	24	19.85	Pass
802.11ac (VHT80)	5530	Ant1	0.00	13.67					
802.11ac (VHT80)	5610	Ant0	0.00	12.89	16.09	24	24	19.62	Pass
802.11ac (VHT80)	5610	Ant1	0.00	13.26					

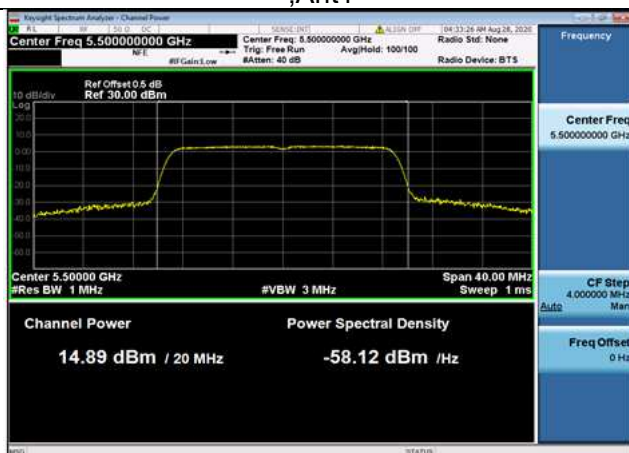
3.2 Test Plots



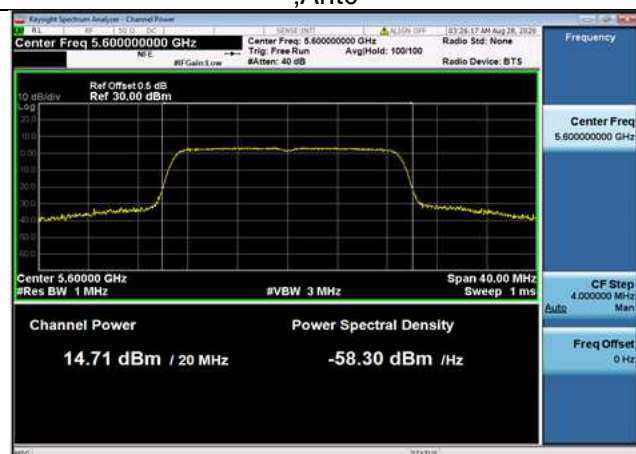
U-NII-2c,802.11n(HT20),5500MHz
,Ant0



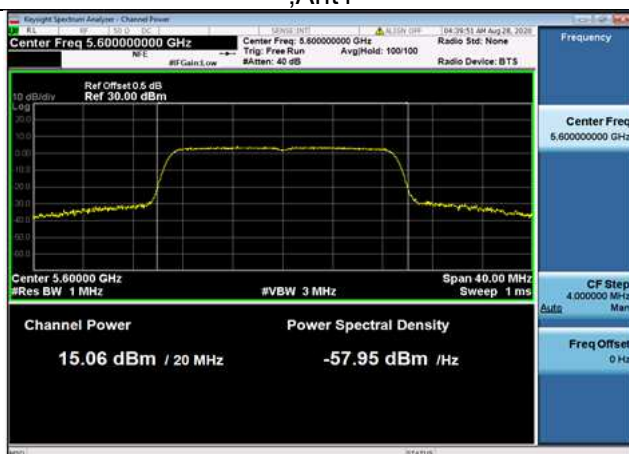
U-NII-2c,802.11n(HT20),5500MHz
,Ant1



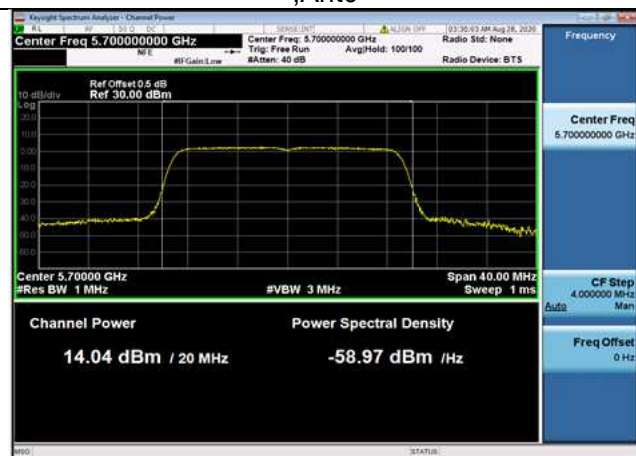
U-NII-2c,802.11n(HT20),5600MHz
,Ant0



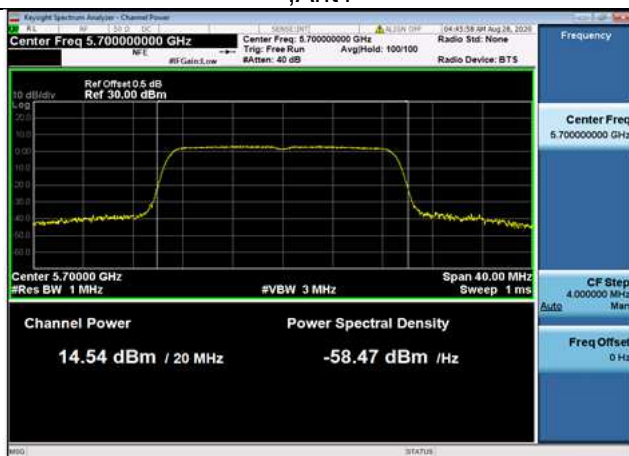
U-NII-2c,802.11n(HT20),5600MHz
,Ant1

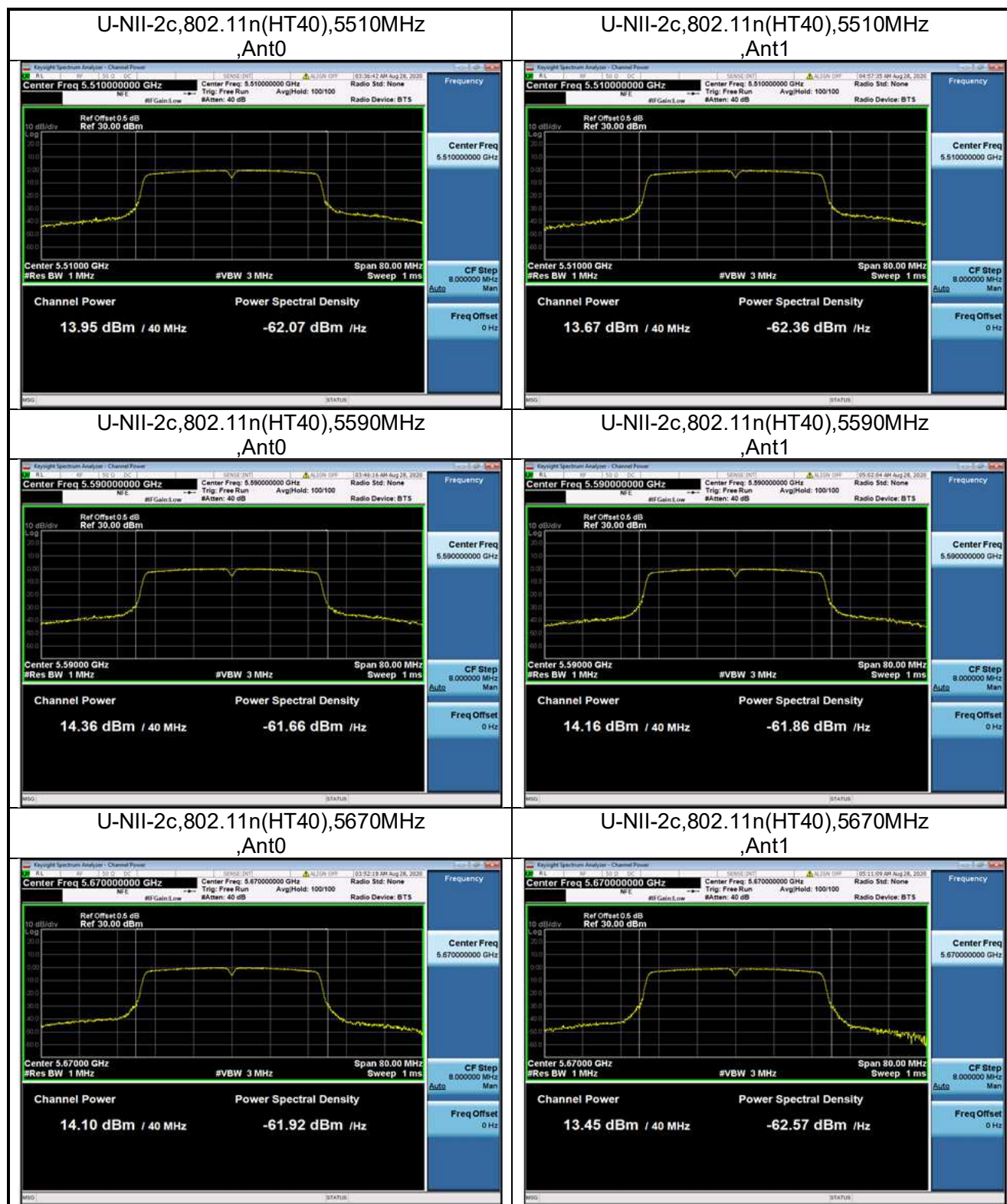


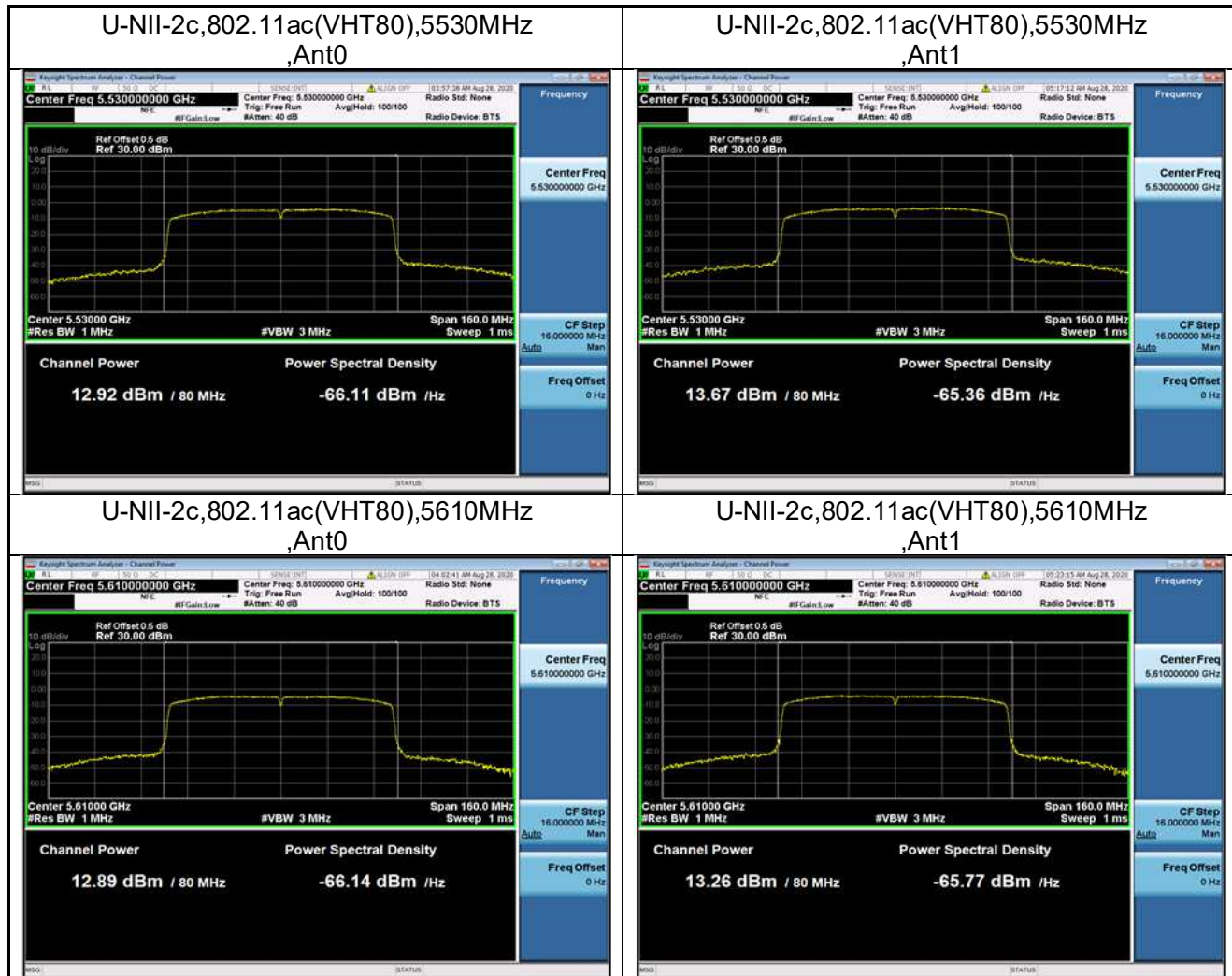
U-NII-2c,802.11n(HT20),5700MHz
,Ant0



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







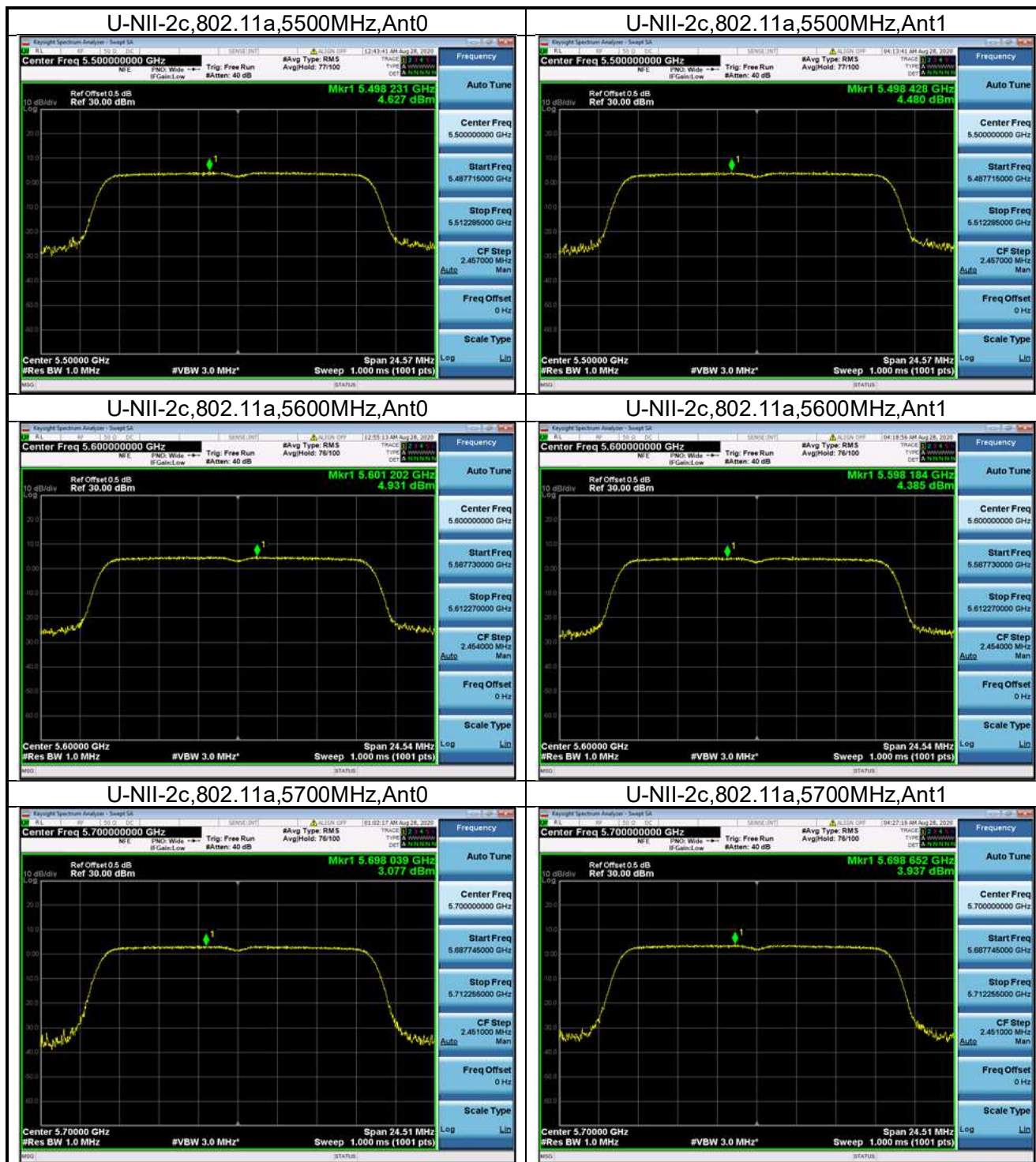
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4. AVGSA Power Spectral Density

4.1 Test Data

U-NII-2a AVGSA Power Spectral Density								
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm)	Total PSD (dBm)	RBW (kHz)	Limit (dBm)	Result
802.11a	5500	Ant0	0.00	4.591	4.591	1000	11	Pass
802.11a	5500	Ant1	0.00	4.513	4.513	1000	11	Pass
802.11a	5600	Ant0	0.00	4.894	4.894	1000	11	Pass
802.11a	5600	Ant1	0.00	4.462	4.462	1000	11	Pass
802.11a	5700	Ant0	0.00	3.140	3.140	1000	11	Pass
802.11a	5700	Ant1	0.00	3.900	3.900	1000	11	Pass
802.11n (HT20)	5500	Ant0	0.00	2.697	6.211	1000	11	Pass
802.11n (HT20)	5500	Ant1	0.00	3.652				
802.11n (HT20)	5600	Ant0	0.00	2.869	6.115	1000	11	Pass
802.11n (HT20)	5600	Ant1	0.00	3.328				
802.11n (HT20)	5700	Ant0	0.00	1.832	5.354	1000	11	Pass
802.11n (HT20)	5700	Ant1	0.00	2.801				
802.11n (HT40)	5510	Ant0	0.00	-0.194	2.813	1000	11	Pass
802.11n (HT40)	5510	Ant1	0.00	-0.200				
802.11n (HT40)	5590	Ant0	0.00	0.498	3.396	1000	11	Pass
802.11n (HT40)	5590	Ant1	0.00	0.271				
802.11n (HT40)	5670	Ant0	0.00	0.153	2.811	1000	11	Pass
802.11n (HT40)	5670	Ant1	0.00	-0.583				
802.11ac (VHT80)	5530	Ant0	0.00	-4.175	-0.765	1000	11	Pass
802.11ac (VHT80)	5530	Ant1	0.00	-3.410				
802.11ac (VHT80)	5610	Ant0	0.00	-4.591	-1.145	1000	11	Pass
802.11ac (VHT80)	5610	Ant1	0.00	-3.759				

4.2 Test Plots



U-NII-2c,802.11n(HT20),5500MHz
,Ant0



U-NII-2c,802.11n(HT20),5500MHz
,Ant1



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

