TEST REPORT

Appendix C: Test results of U-NII-2c Band

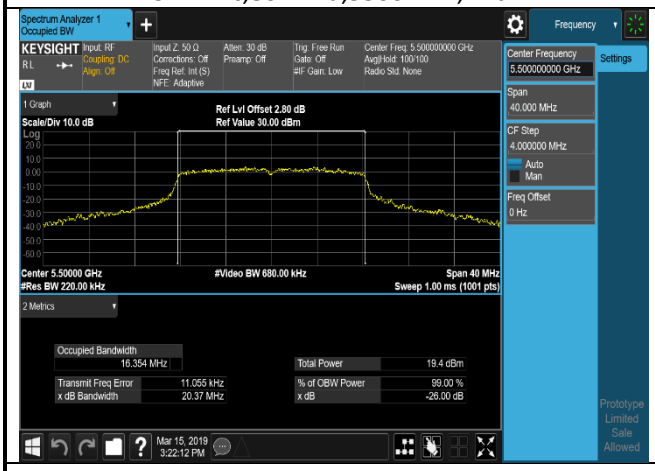
1. Occupied N dB Bandwidth

1.1 Test Data

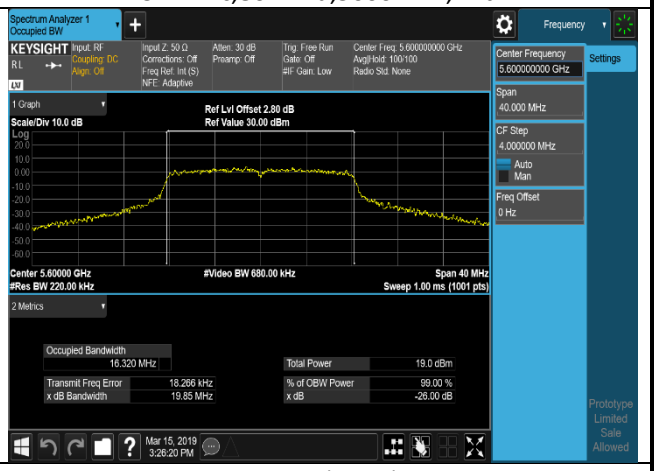
U-NII-2c Occupied N dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11a	5500	Ant1	20.37	Pass
802.11a	5600	Ant1	19.85	Pass
802.11a	5700	Ant1	20.20	Pass
802.11n (HT20)	5500	Ant1	20.81	Pass
802.11n (HT20)	5600	Ant1	20.48	Pass
802.11n (HT20)	5700	Ant1	20.79	Pass
802.11n (HT40)	5510	Ant1	41.15	Pass
802.11n (HT40)	5590	Ant1	42.51	Pass
802.11n (HT40)	5670	Ant1	42.15	Pass
802.11ac (VHT80)	5530	Ant1	83.99	Pass
802.11ac (VHT80)	5610	Ant1	83.37	Pass

1.2 Test Plots

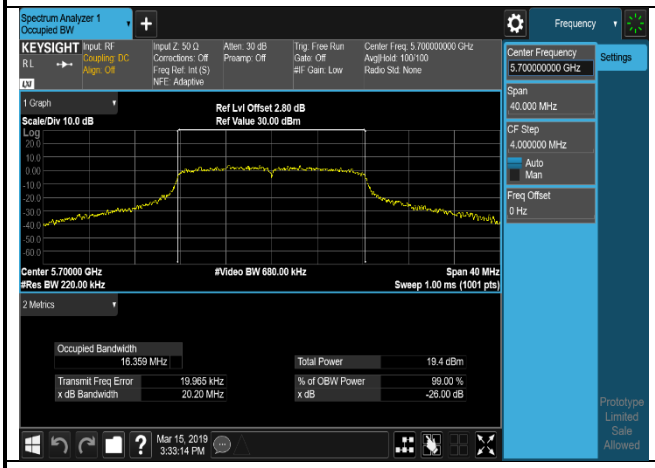
U-NII-2c,802.11a,5500MHz,Ant1



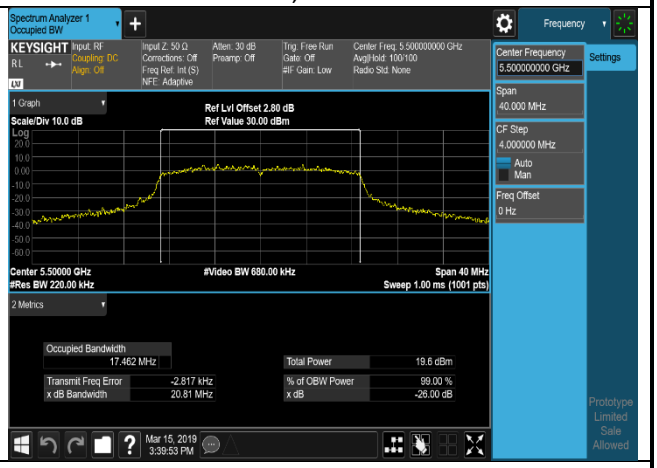
U-NII-2c,802.11a,5600MHz,Ant1



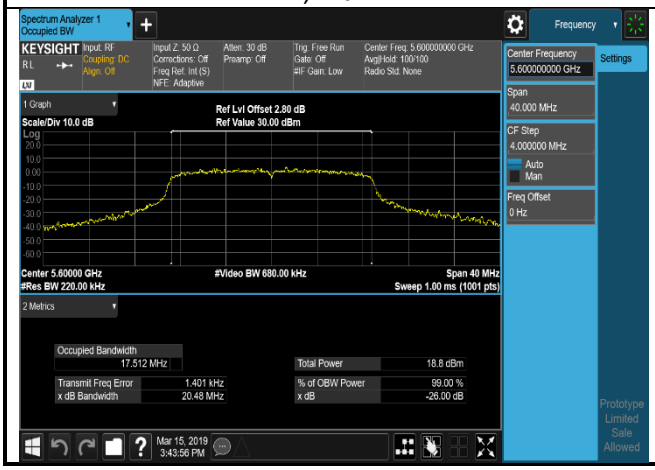
U-NII-2c,802.11a,5700MHz,Ant1



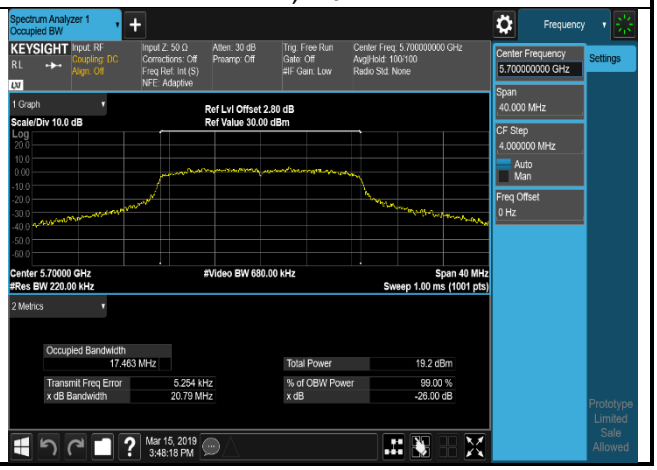
U-NII-2c,802.11n(HT20),5500MHz ,Ant1



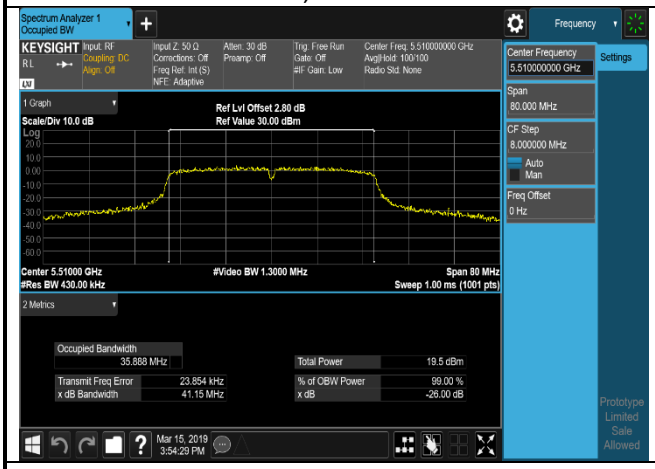
U-NII-2c,802.11n(HT20),5600MHz ,Ant1



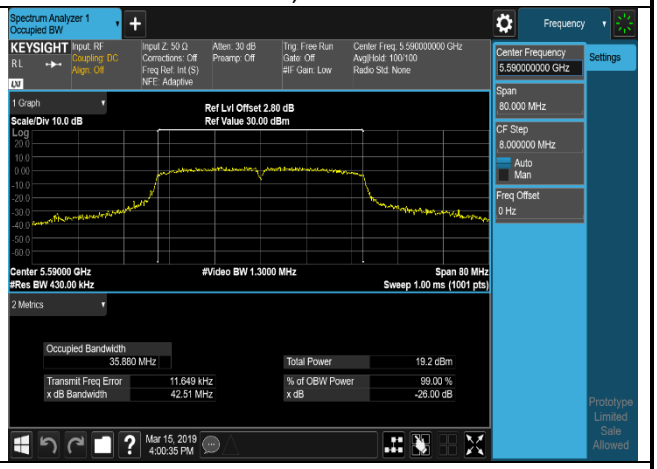
U-NII-2c,802.11n(HT20),5700MHz ,Ant1



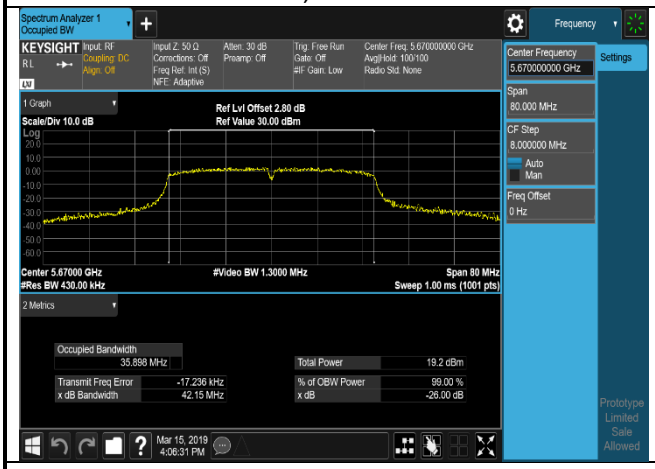
U-NII-2c,802.11n(HT40),5510MHz ,Ant1



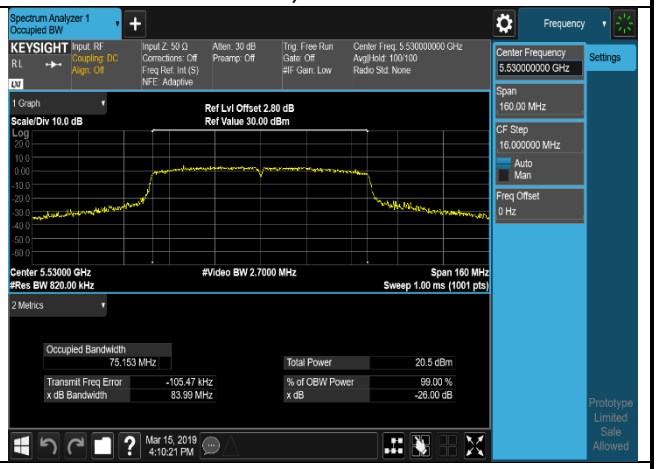
U-NII-2c,802.11n(HT40),5590MHz ,Ant1



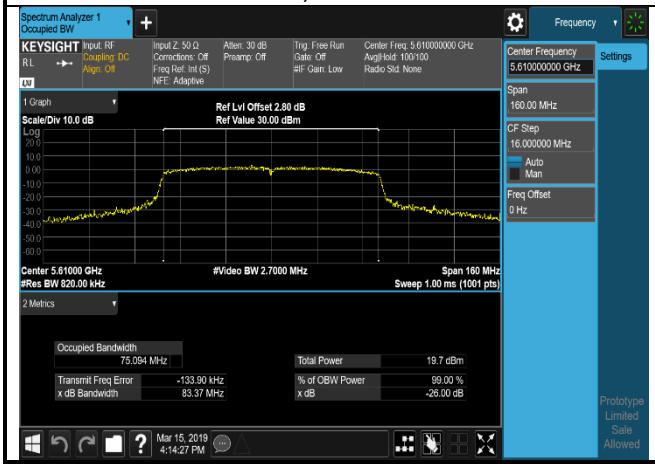
U-NII-2c,802.11n(HT40),5670MHz ,Ant1



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



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



TEST REPORT

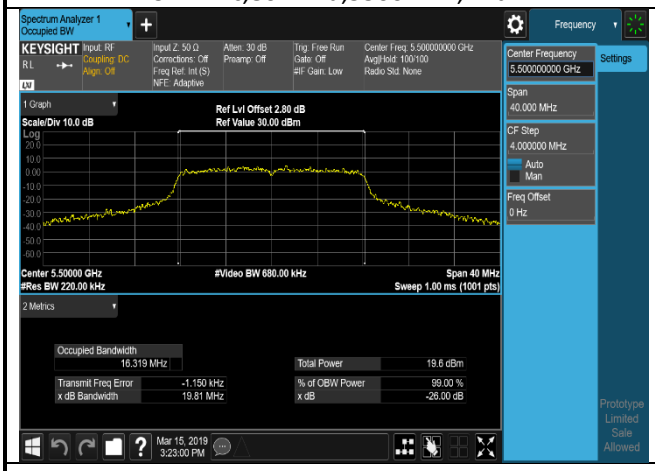
2. 99% Occupied Bandwidth

2.1 Test Data

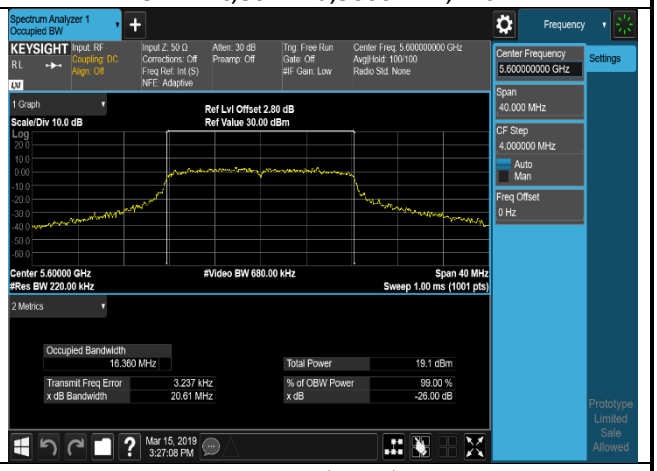
U-NII-2c 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11a	5500	Ant1	16.319	Pass
802.11a	5600	Ant1	16.360	Pass
802.11a	5700	Ant1	16.371	Pass
802.11n (HT20)	5500	Ant1	17.472	Pass
802.11n (HT20)	5600	Ant1	17.467	Pass
802.11n (HT20)	5700	Ant1	17.513	Pass
802.11n (HT40)	5510	Ant1	35.920	Pass
802.11n (HT40)	5590	Ant1	35.895	Pass
802.11n (HT40)	5670	Ant1	36.052	Pass
802.11ac (VHT80)	5530	Ant1	75.066	Pass
802.11ac (VHT80)	5610	Ant1	75.048	Pass

2.2 Test Plots

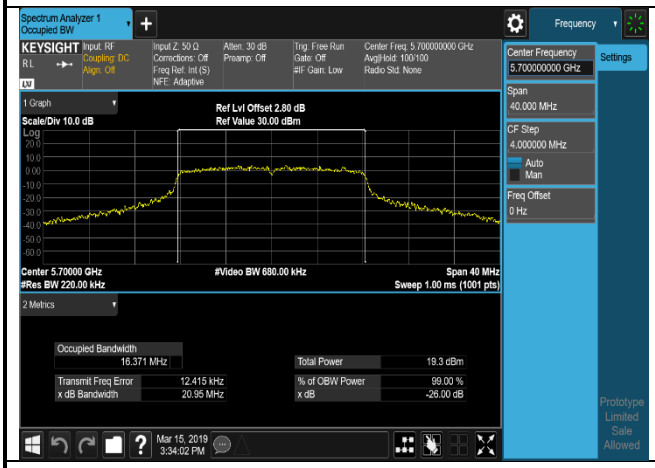
U-NII-2c,802.11a,5500MHz,Ant1



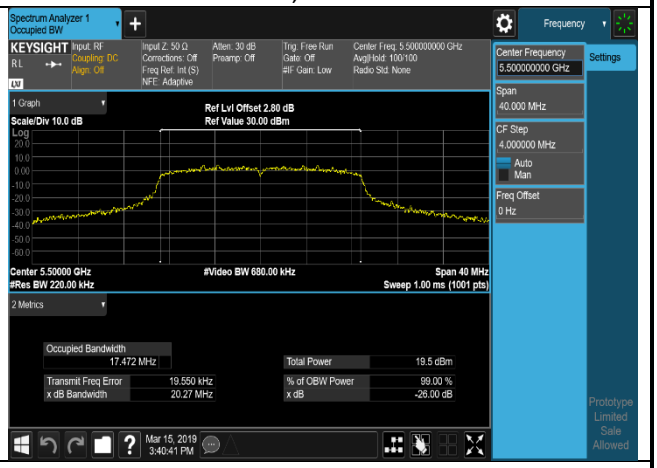
U-NII-2c,802.11a,5600MHz,Ant1



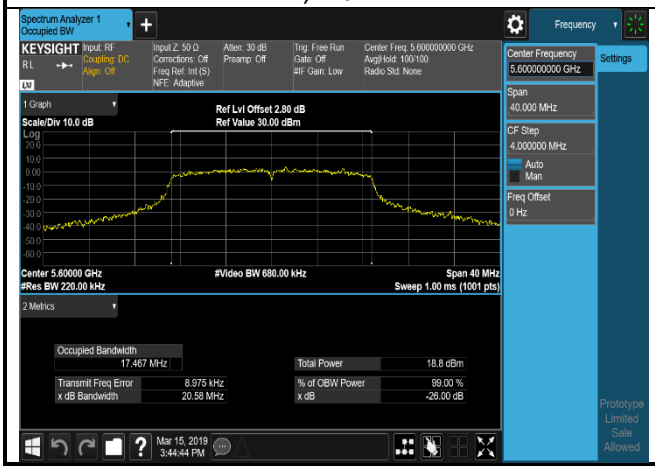
U-NII-2c,802.11a,5700MHz,Ant1



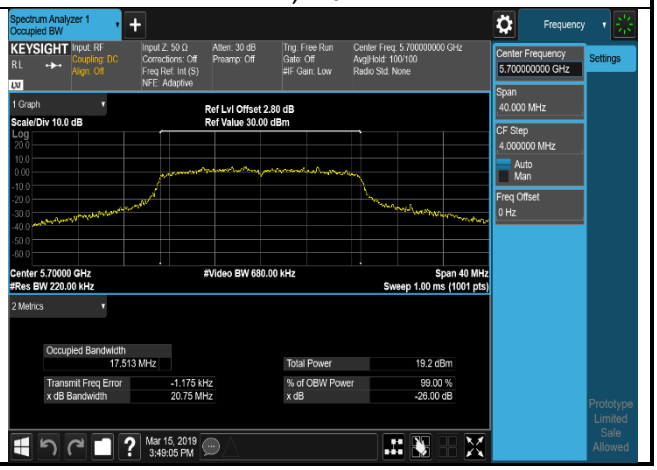
U-NII-2c,802.11n(HT20),5500MHz ,Ant1

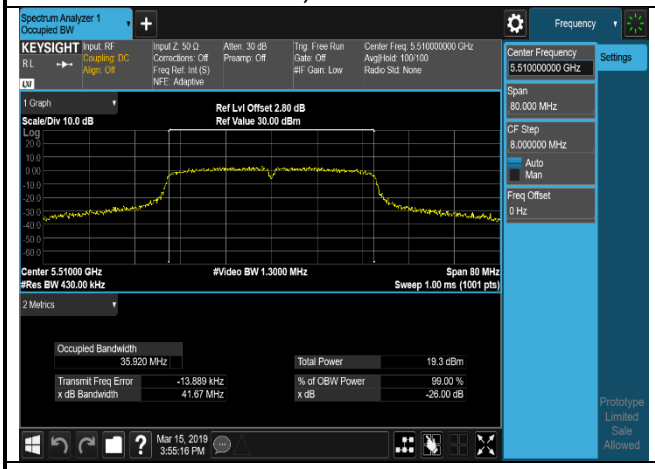
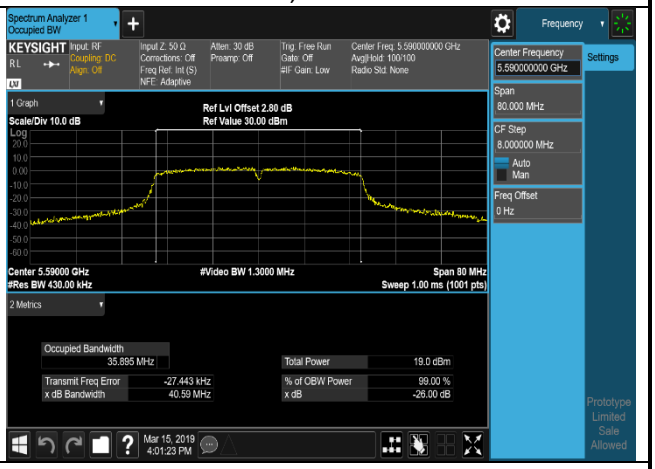
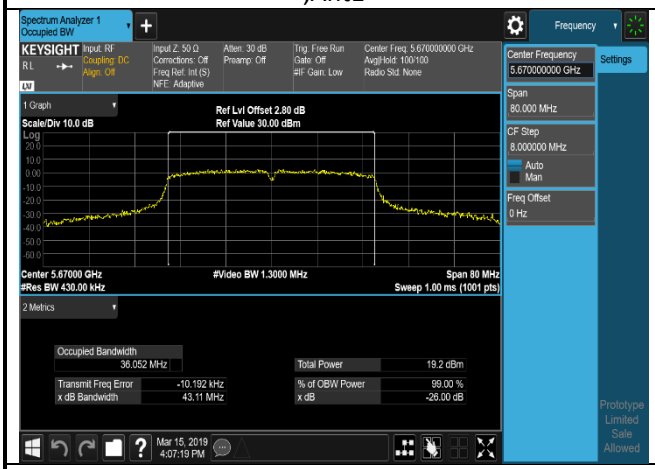
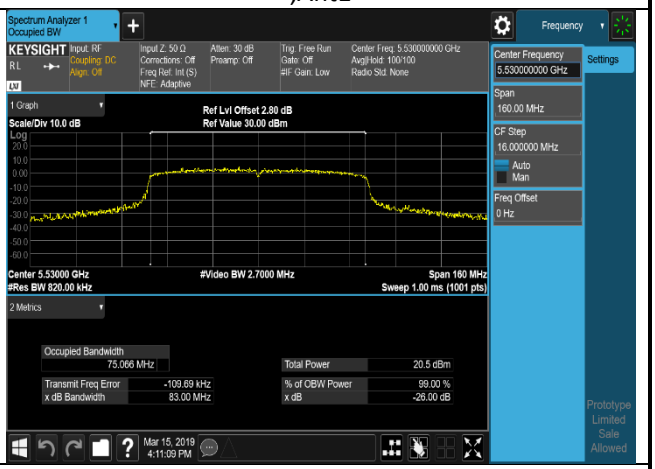
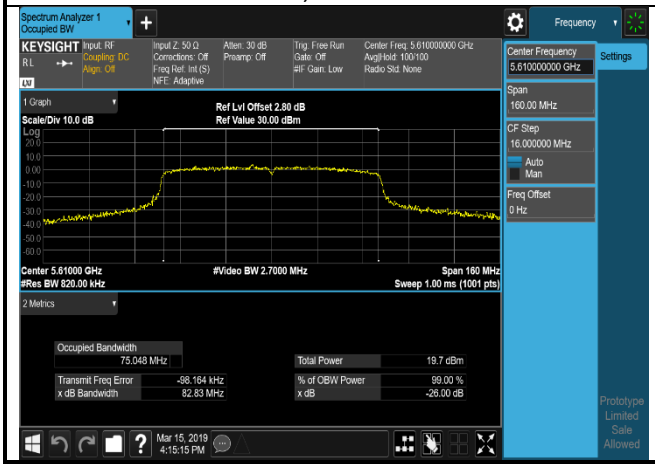


U-NII-2c,802.11n(HT20),5600MHz ,Ant1



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



U-NII-2c,802.11n(HT40),5510MHz ,Ant1	U-NII-2c,802.11n(HT40),5590MHz ,Ant1
	
U-NII-2c,802.11n(HT40),5670MHz ,Ant1	U-NII-2c,802.11ac(VHT80),5530MHz ,Ant1
	
U-NII-2c,802.11ac(VHT80),5610MHz ,Ant1	
	

TEST REPORT

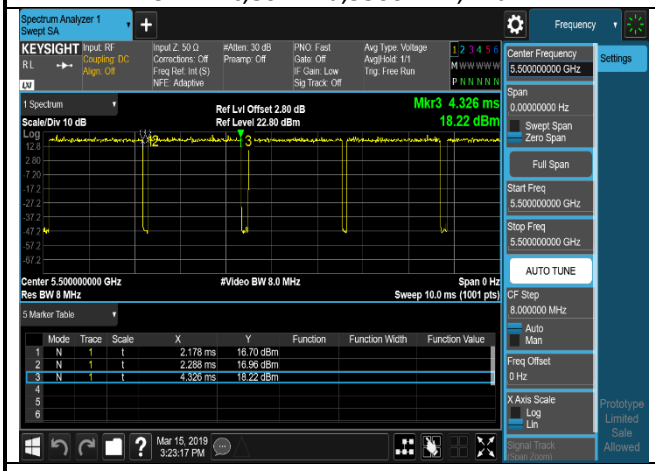
3. Duty Cycle

3.1 Test Data

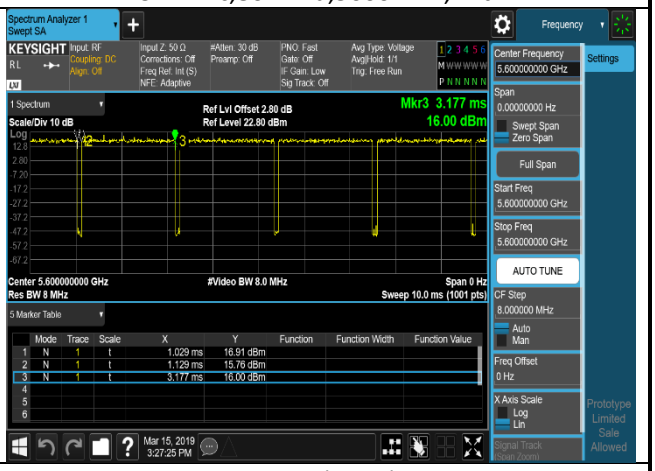
U-NII-2c Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5500	Ant1	94.88	0.23
802.11a	5600	Ant1	95.35	0.21
802.11a	5700	Ant1	94.88	0.23
802.11n (HT20)	5500	Ant1	94.55	0.24
802.11n (HT20)	5600	Ant1	95.02	0.22
802.11n (HT20)	5700	Ant1	93.17	0.31
802.11n (HT40)	5510	Ant1	85.45	0.68
802.11n (HT40)	5590	Ant1	90.38	0.44
802.11n (HT40)	5670	Ant1	90.48	0.43
802.11ac (VHT80)	5530	Ant1	81.27	0.90
802.11ac (VHT80)	5610	Ant1	73.25	1.35

3.2 Test Plots

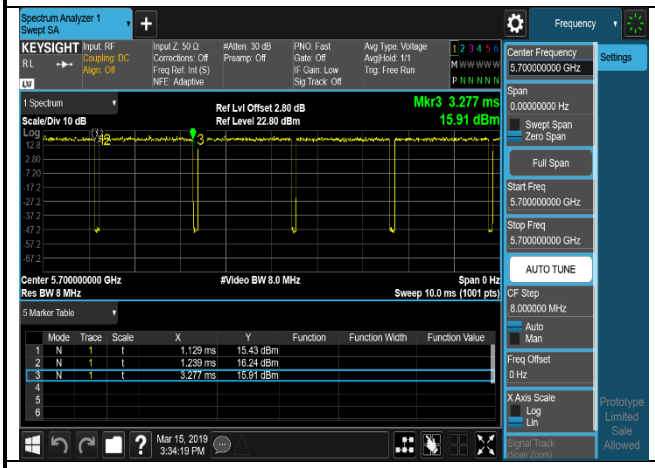
U-NII-2c,802.11a,5500MHz,Ant1



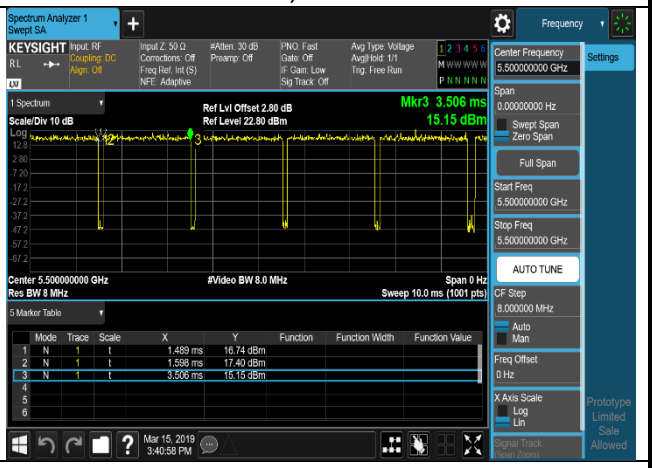
U-NII-2c,802.11a,5600MHz,Ant1



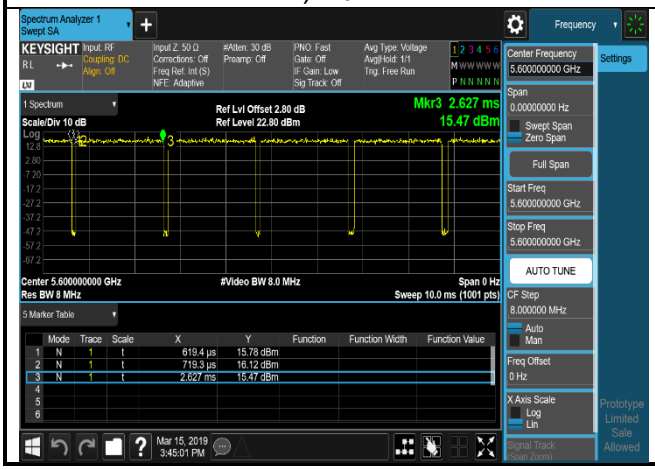
U-NII-2c,802.11a,5700MHz,Ant1



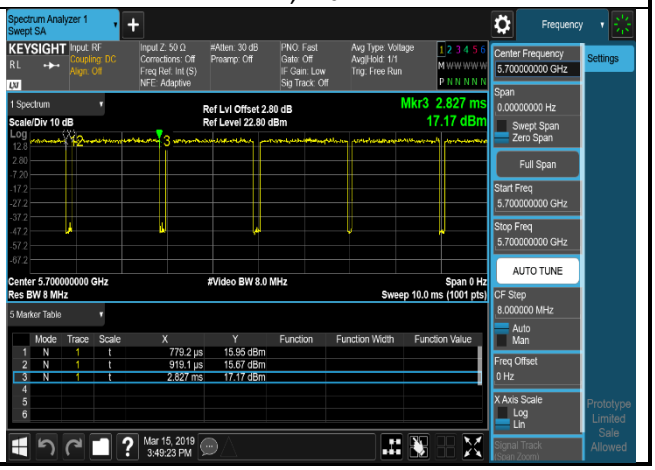
U-NII-2c,802.11n(HT20),5500MHz ,Ant1



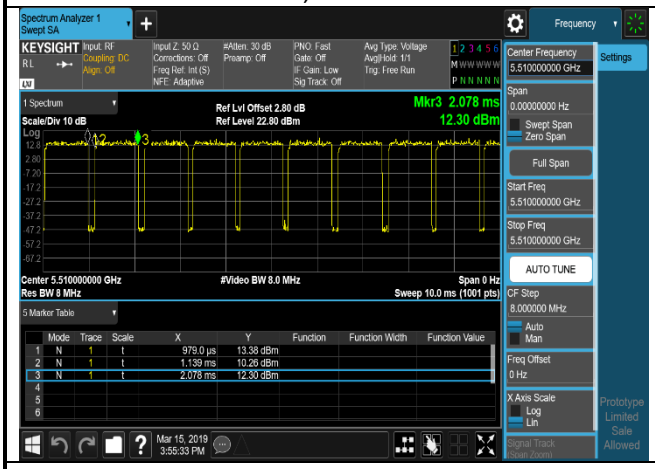
U-NII-2c,802.11n(HT20),5600MHz ,Ant1



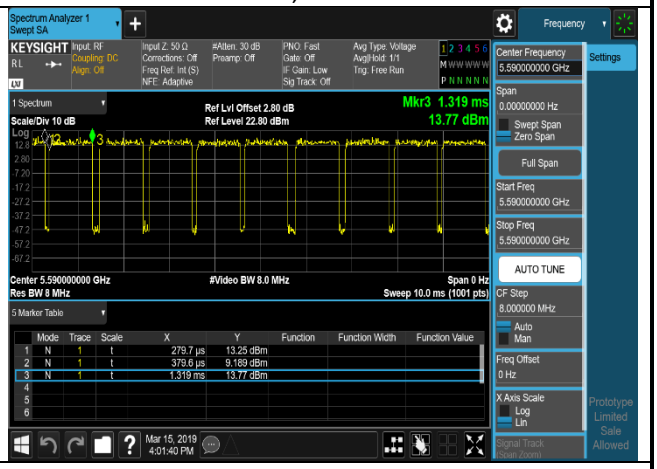
U-NII-2c,802.11n(HT20),5700MHz ,Ant1



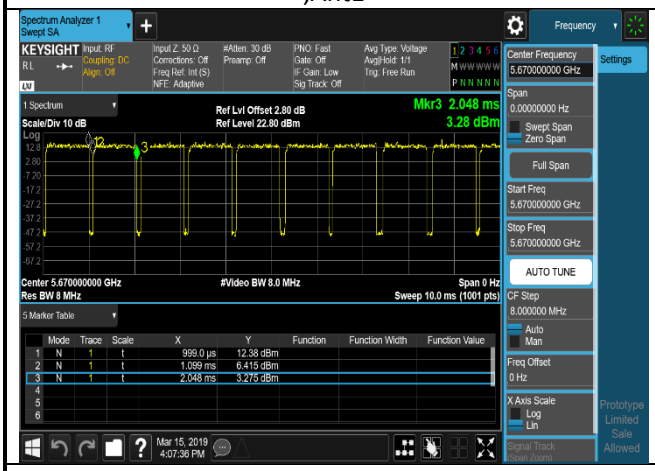
U-NII-2c,802.11n(HT40),5510MHz ,Ant1



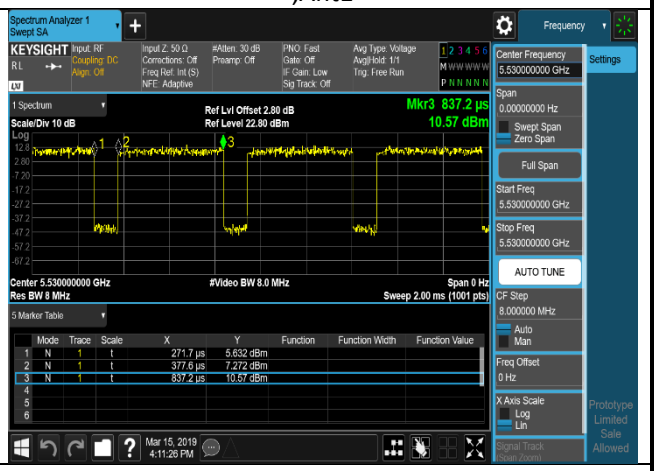
U-NII-2c,802.11n(HT40),5590MHz ,Ant1



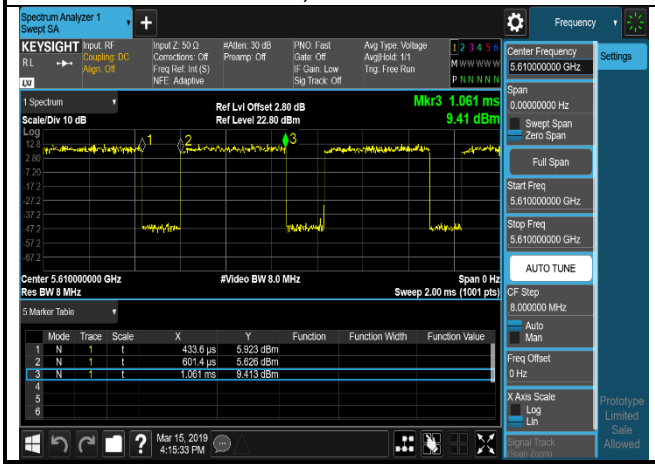
U-NII-2c,802.11n(HT40),5670MHz ,Ant1



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



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



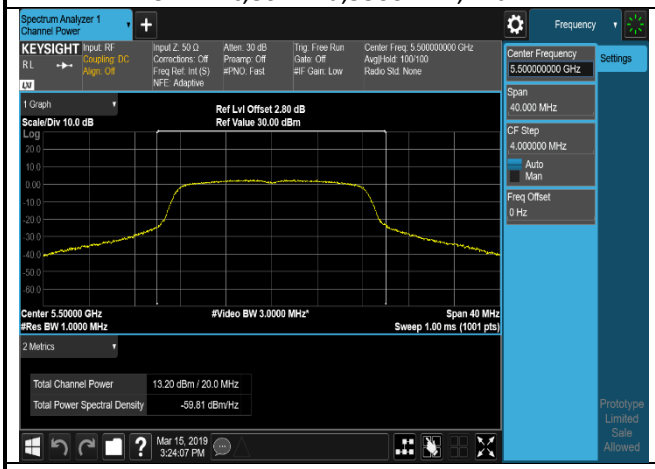
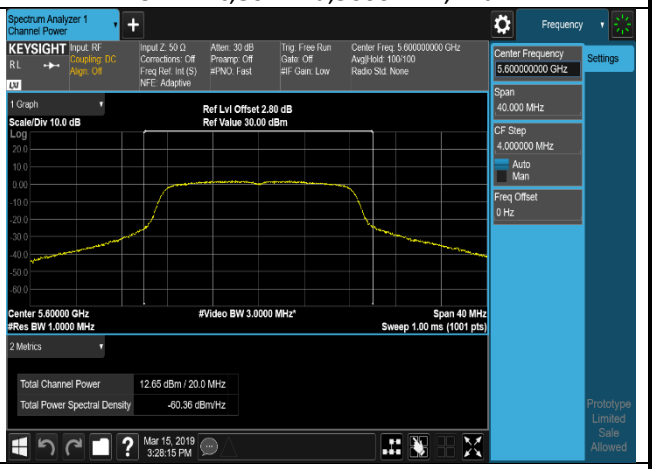
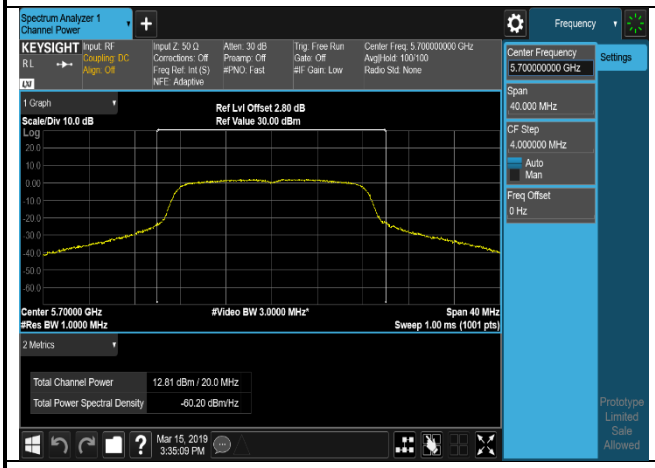
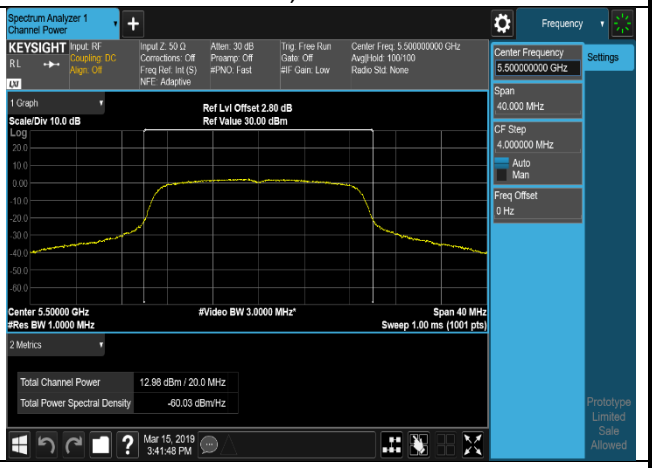
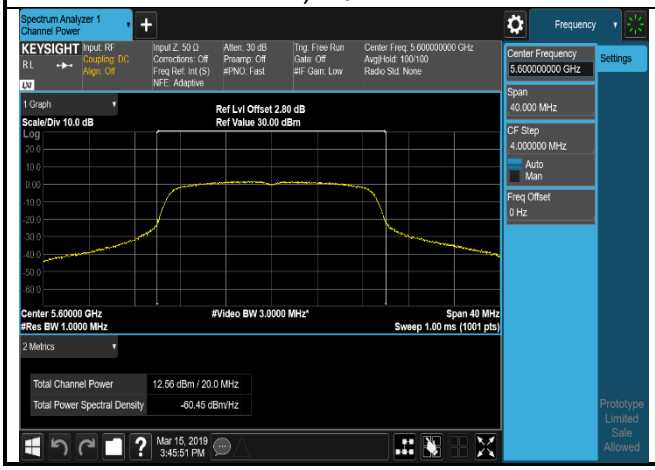
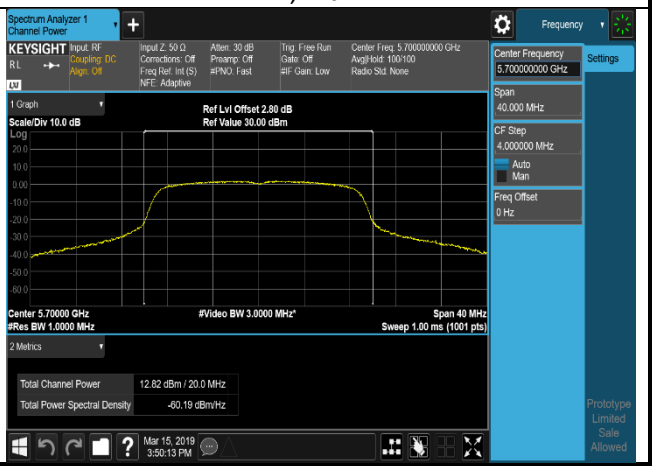
TEST REPORT

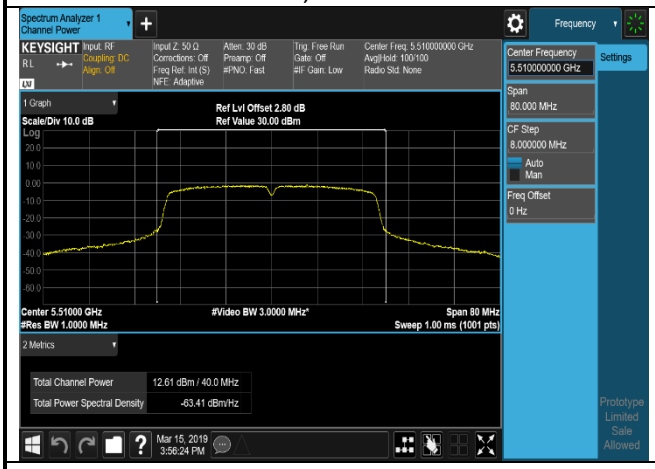
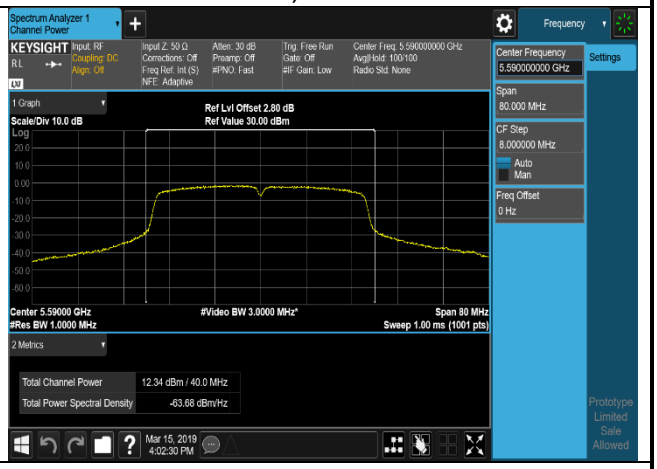
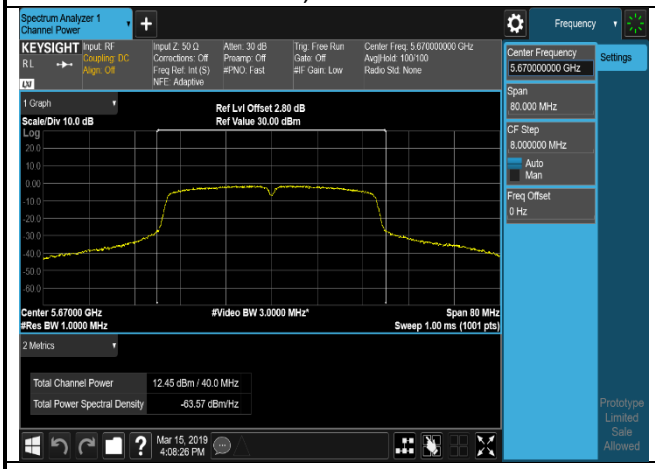
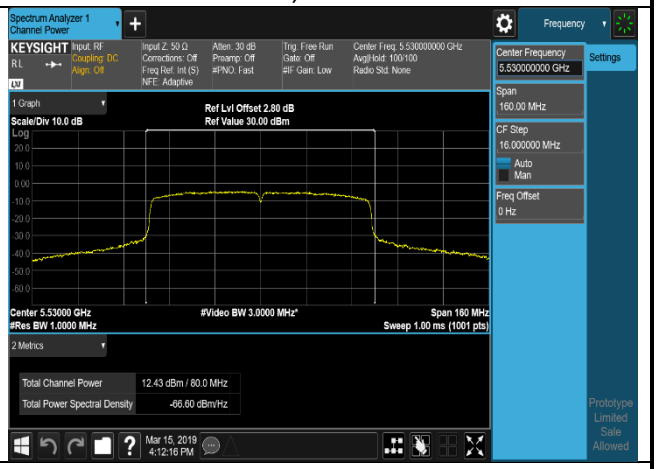
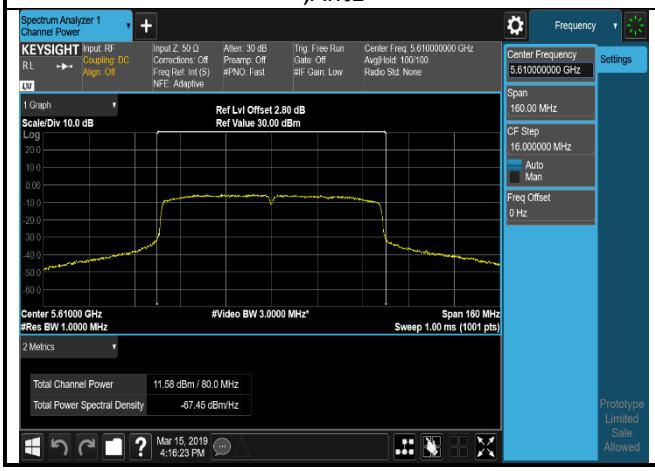
4. AVGSA Output Power

4.1 Test Data

U-NII-2c AVGSA Output Power								
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
802.11a	5500	Ant1	0.23	13.43	24	17.63	30	Pass
802.11a	5600	Ant1	0.21	12.86	24	17.06	30	Pass
802.11a	5700	Ant1	0.23	13.04	24	17.24	30	Pass
802.11n (HT20)	5500	Ant1	0.24	13.22	24	17.42	30	Pass
802.11n (HT20)	5600	Ant1	0.22	12.78	24	16.98	30	Pass
802.11n (HT20)	5700	Ant1	0.31	13.13	24	17.33	30	Pass
802.11n (HT40)	5510	Ant1	0.68	13.29	24	17.49	30	Pass
802.11n (HT40)	5590	Ant1	0.44	12.78	24	16.98	30	Pass
802.11n (HT40)	5670	Ant1	0.43	12.88	24	17.08	30	Pass
802.11ac (VHT80)	5530	Ant1	0.90	13.33	24	17.53	30	Pass
802.11ac (VHT80)	5610	Ant1	1.35	12.93	24	17.13	30	Pass

4.2 Test Plots

U-NII-2c,802.11a,5500MHz,Ant1	U-NII-2c,802.11a,5600MHz,Ant1
	
U-NII-2c,802.11a,5700MHz,Ant1	U-NII-2c,802.11n(HT20),5500MHz ,Ant1
	
U-NII-2c,802.11n(HT20),5600MHz ,Ant1	U-NII-2c,802.11n(HT20),5700MHz ,Ant1
	

U-NII-2c,802.11n(HT40),5510MHz ,Ant1	U-NII-2c,802.11n(HT40),5590MHz ,Ant1
	
U-NII-2c,802.11n(HT40),5670MHz ,Ant1	U-NII-2c,802.11ac(VHT80),5530MHz ,Ant1
	
U-NII-2c,802.11ac(VHT80),5610MHz ,Ant1	
	

TEST REPORT

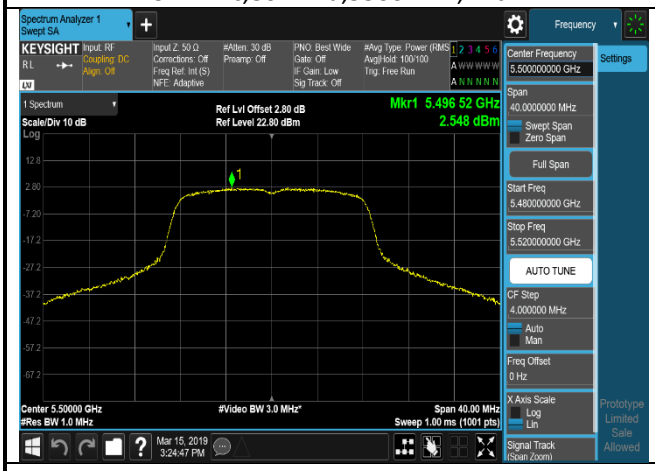
5. AVGSA Power Spectral Density

5.1 Test Data

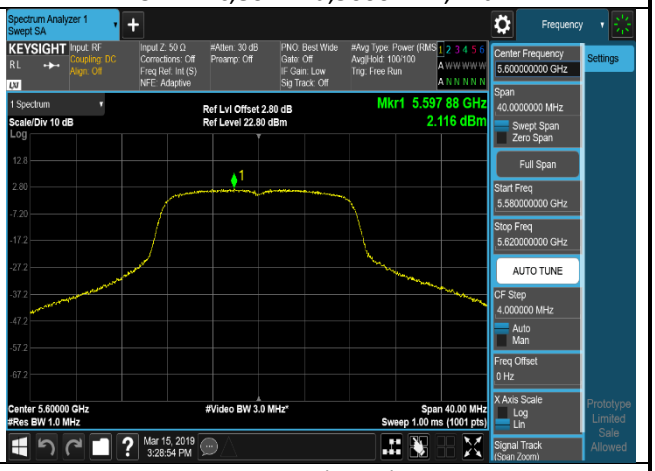
U-NII-2c AVGSA Power Spectral Density							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm)	RBW (kHz)	Limit (dBm)	Result
802.11a	5500	Ant1	0.23	2.778	1000	11	Pass
802.11a	5600	Ant1	0.21	2.326	1000	11	Pass
802.11a	5700	Ant1	0.23	2.537	1000	11	Pass
802.11n (HT20)	5500	Ant1	0.24	2.430	1000	11	Pass
802.11n (HT20)	5600	Ant1	0.22	1.763	1000	11	Pass
802.11n (HT20)	5700	Ant1	0.31	2.592	1000	11	Pass
802.11n (HT40)	5510	Ant1	0.68	-0.490	1000	11	Pass
802.11n (HT40)	5590	Ant1	0.44	-1.097	1000	11	Pass
802.11n (HT40)	5670	Ant1	0.43	-0.878	1000	11	Pass
802.11ac (VHT80)	5530	Ant1	0.90	-3.180	1000	11	Pass
802.11ac (VHT80)	5610	Ant1	1.35	-3.626	1000	11	Pass

5.2 Test Plots

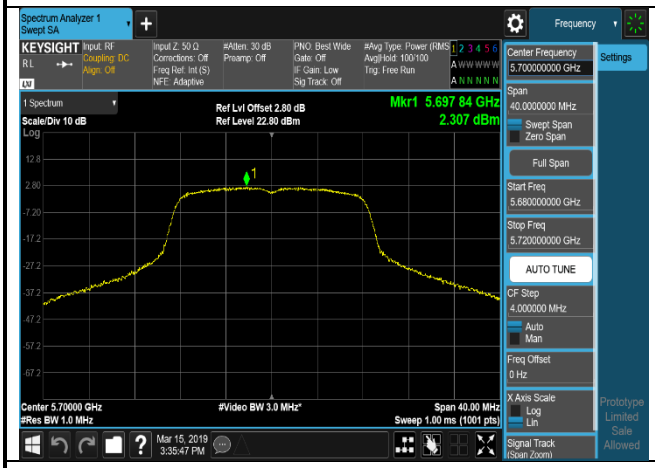
U-NII-2c,802.11a,5500MHz,Ant1



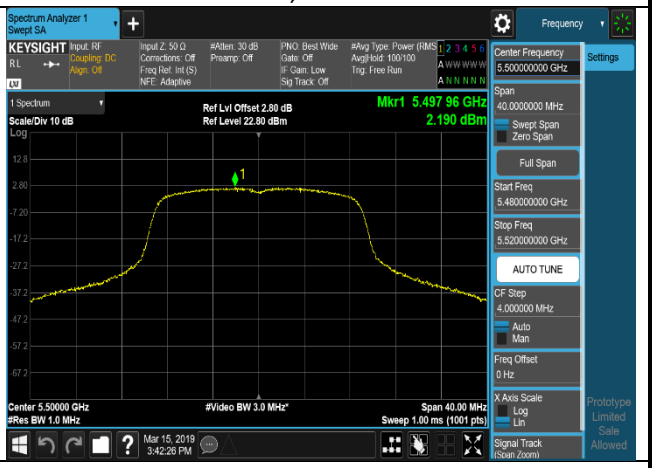
U-NII-2c,802.11a,5600MHz,Ant1



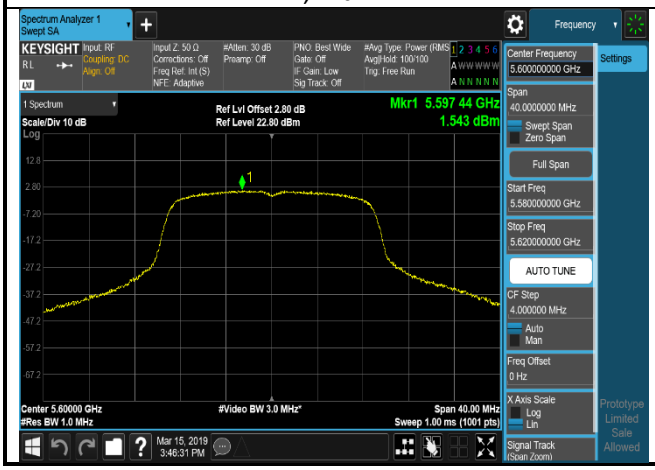
U-NII-2c,802.11a,5700MHz,Ant1



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

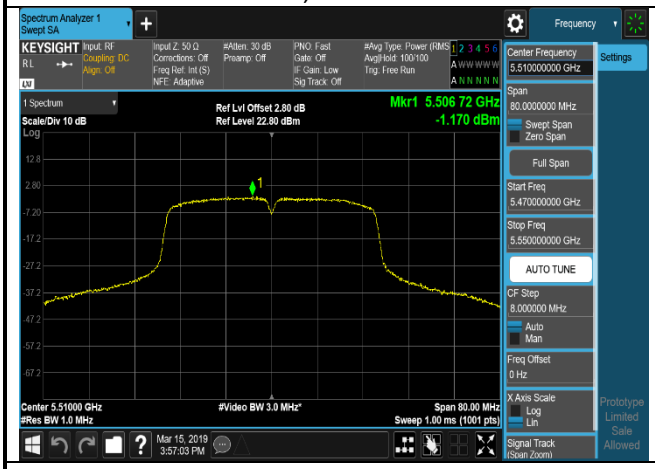


U-NII-2c,802.11n(HT20),5600MHz ,Ant1

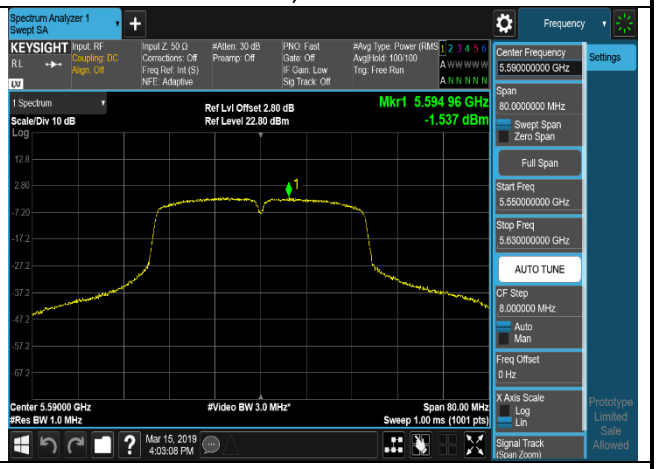


U-NII-2c,802.11n(HT20),5700MHz ,Ant1

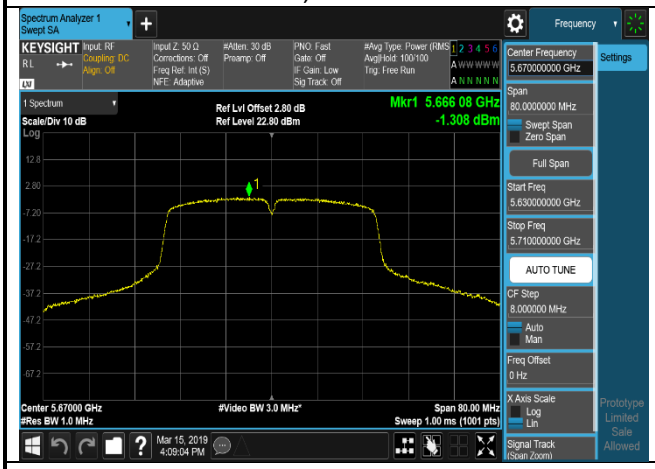
U-NII-2c,802.11n(HT40),5510MHz ,Ant1



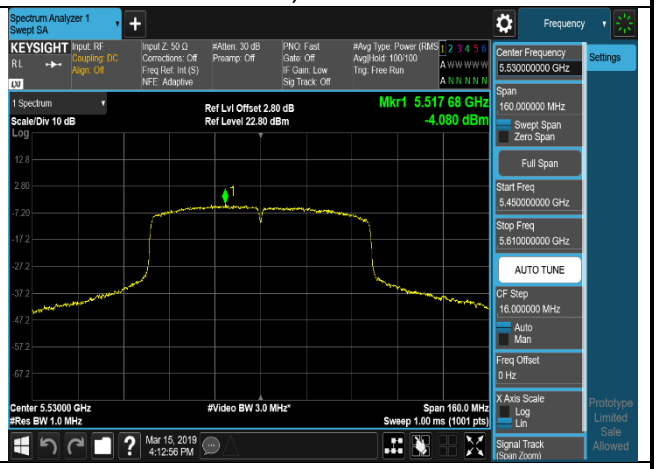
U-NII-2c,802.11n(HT40),5590MHz ,Ant1



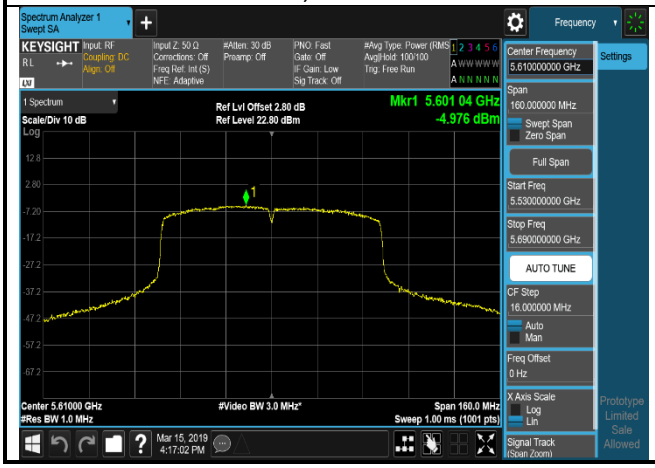
U-NII-2c,802.11n(HT40),5670MHz ,Ant1



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



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



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