APPENDIX F CONDUCTED OUTPUT POWER

CONTINUE ON NEXT PAGE

Test Mode	UNII-1_IEEE 802.11a_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	16.49	0.0446	30.00	1.0000	Complies
5200	16.81	0.0480	30.00	1.0000	Complies
5240	17.37	0.0546	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11a_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	15.18	0.0330	30.00	1.0000	Complies
5200	15.90	0.0389	30.00	1.0000	Complies
5240	16.53	0.0450	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11a_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	18.89	0.0775	30.00	1.0000	Complies
5200	19.39	0.0869	30.00	1.0000	Complies
5240	19.98	0.0996	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11n (HT20)_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	15.94	0.0393	30.00	1.0000	Complies
5200	16.53	0.0450	30.00	1.0000	Complies
5240	17.10	0.0513	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11n (HT20)_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	14.98	0.0315	30.00	1.0000	Complies
5200	15.67	0.0369	30.00	1.0000	Complies
5240	16.16	0.0413	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11n (HT20)_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	18.50	0.0707	30.00	1.0000	Complies
5200	19.13	0.0819	30.00	1.0000	Complies
5240	19.67	0.0926	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11ac (HT20)_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	16.15	0.0412	30.00	1.0000	Complies
5200	16.71	0.0469	30.00	1.0000	Complies
5240	17.13	0.0516	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11ac (HT20)_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	15.15	0.0327	30.00	1.0000	Complies
5200	15.73	0.0374	30.00	1.0000	Complies
5240	16.33	0.0430	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11ac (HT20)_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	18.69	0.0739	30.00	1.0000	Complies
5200	19.26	0.0843	30.00	1.0000	Complies
5240	19.76	0.0946	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11n (HT40)_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	14.08	0.0256	30.00	1.0000	Complies
5230	17.96	0.0625	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11n (HT40)_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	12.79	0.0190	30.00	1.0000	Complies
5230	17.17	0.0521	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11n (HT40)_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	16.49	0.0446	30.00	1.0000	Complies
5230	20.59	0.1146	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11ac (HT40)_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	13.98	0.0250	30.00	1.0000	Complies
5230	18.03	0.0635	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11ac (HT40)_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	12.99	0.0199	30.00	1.0000	Complies
5230	17.13	0.0516	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11ac (HT40)_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	16.52	0.0449	30.00	1.0000	Complies
5230	20.61	0.1152	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11ac (VHT80)_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5210	11.85	0.0153	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11ac (VHT80)_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5210	10.75	0.0119	30.00	1.0000	Complies

Test Mode	UNII-1_IEEE 802.11ac (VHT80)_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5210	14.35	0.0272	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11a_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5745	14.23	0.0265	30.00	1.0000	Complies
5785	15.07	0.0321	30.00	1.0000	Complies
5825	13.64	0.0231	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11a_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5745	14.48	0.0281	30.00	1.0000	Complies
5785	15.17	0.0329	30.00	1.0000	Complies
5825	13.97	0.0249	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11a_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5745	17.37	0.0545	30.00	1.0000	Complies
5785	18.13	0.0650	30.00	1.0000	Complies
5825	16.82	0.0481	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11n (HT20)_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5745	14.14	0.0259	30.00	1.0000	Complies
5785	15.07	0.0321	30.00	1.0000	Complies
5825	13.65	0.0232	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11n (HT20)_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5745	14.26	0.0267	30.00	1.0000	Complies
5785	15.01	0.0317	30.00	1.0000	Complies
5825	13.88	0.0244	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11n (HT20)_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5745	17.21	0.0526	30.00	1.0000	Complies
5785	18.05	0.0638	30.00	1.0000	Complies
5825	16.78	0.0476	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11ac (HT20)_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5745	14.34	0.0272	30.00	1.0000	Complies
5785	15.18	0.0330	30.00	1.0000	Complies
5825	13.75	0.0237	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11ac (HT20)_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5745	14.52	0.0283	30.00	1.0000	Complies
5785	15.14	0.0327	30.00	1.0000	Complies
5825	14.04	0.0254	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11ac (HT20)_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5745	17.44	0.0555	30.00	1.0000	Complies
5785	18.17	0.0656	30.00	1.0000	Complies
5825	16.91	0.0491	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11n (HT40)_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5755	15.54	0.0358	30.00	1.0000	Complies
5795	15.30	0.0339	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11n (HT40)_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5755	16.04	0.0402	30.00	1.0000	Complies
5795	15.38	0.0345	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11n (HT40)_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5755	18.81	0.0760	30.00	1.0000	Complies
5795	18.35	0.0684	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11ac (HT40)_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5755	15.94	0.0393	30.00	1.0000	Complies
5795	15.33	0.0341	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11ac (HT40)_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5755	16.13	0.0410	30.00	1.0000	Complies
5795	15.40	0.0347	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11ac (HT40)_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5755	19.05	0.0803	30.00	1.0000	Complies
5795	18.38	0.0688	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11ac (VHT80)_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5775	15.32	0.0340	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11ac (VHT80)_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5775	15.36	0.0344	30.00	1.0000	Complies

Test Mode	UNII-3_IEEE 802.11ac (VHT80)_Total

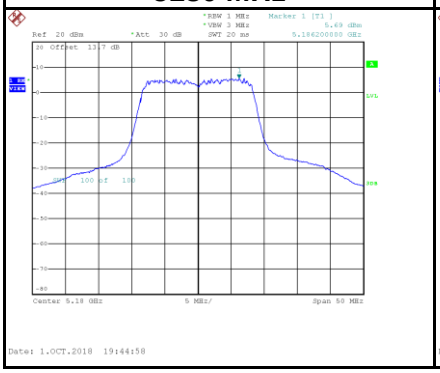
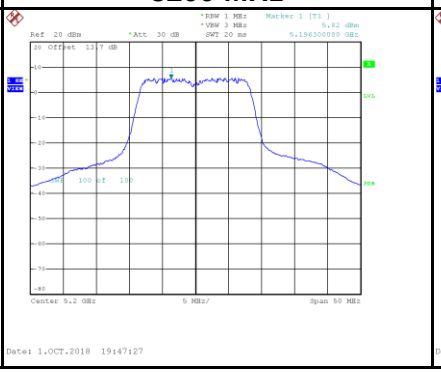
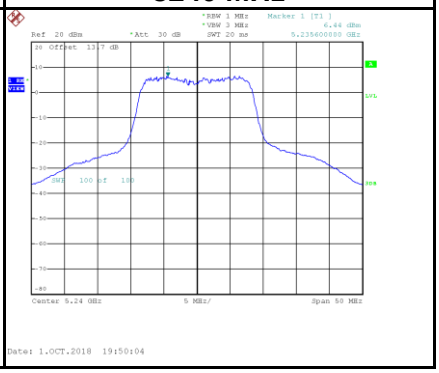
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5775	18.35	0.0684	30.00	1.0000	Complies

APPENDIX G POWER SPECTRAL DENSITY

CONTINUE ON NEXT PAGE

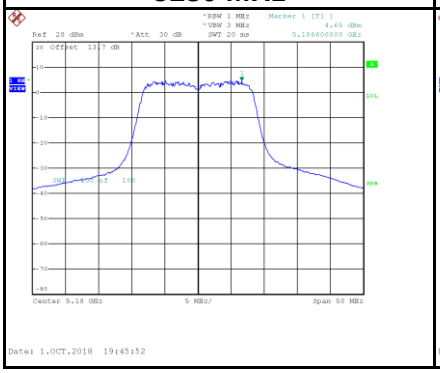
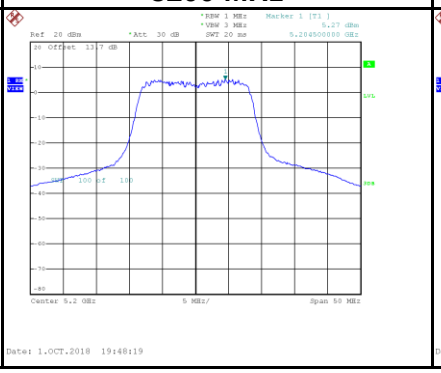
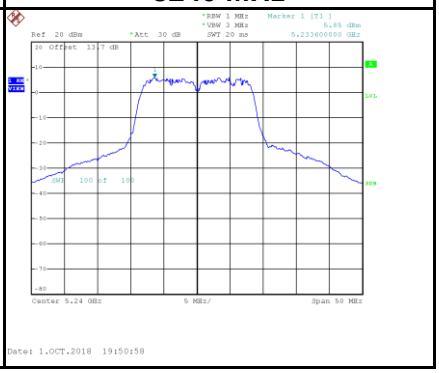
Test Mode	UNII-1_IEEE 802.11a_ANT 1

Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5180	5.69	0.27	5.96	16.99	Complies
5200	5.82	0.27	6.09	16.99	Complies
5240	6.44	0.27	6.71	16.99	Complies

5180 MHz	5200 MHz	5240 MHz
		

Test Mode	UNII-1_IEEE 802.11a_ANT 2

Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5180	4.65	0.27	4.92	16.99	Complies
5200	5.27	0.27	5.54	16.99	Complies
5240	5.85	0.27	6.12	16.99	Complies

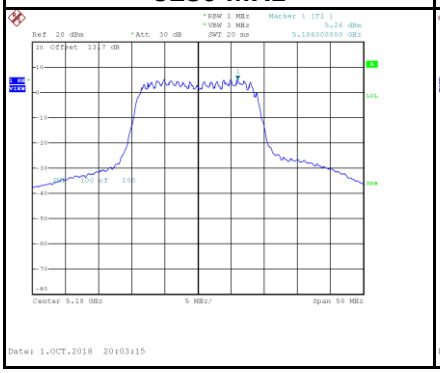
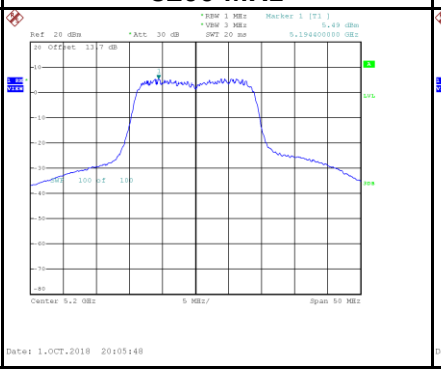
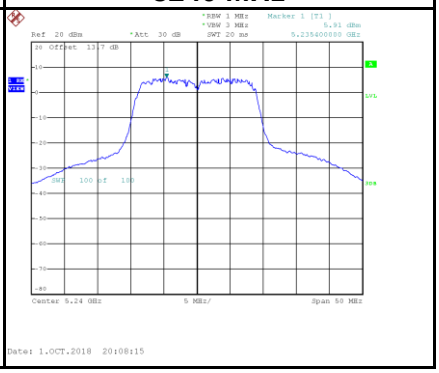
5180 MHz	5200 MHz	5240 MHz
		

Test Mode	UNII-1_IEEE 802.11a_Total

Frequency (MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5180	8.48	16.99	Complies
5200	8.83	16.99	Complies
5240	9.43	16.99	Complies

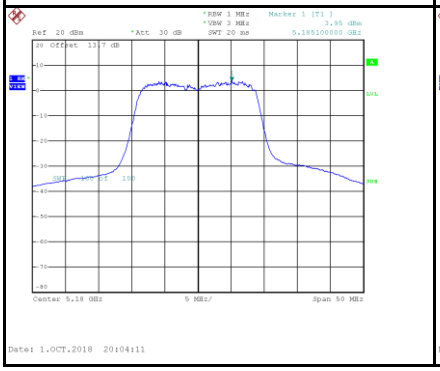
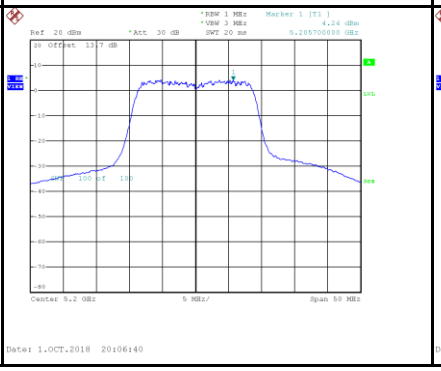
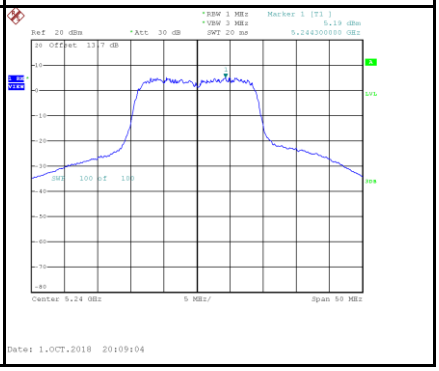
Test Mode	UNII-1_IEEE 802.11ac (HT20)_ANT 1

Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5180	5.26	0.20	5.46	16.99	Complies
5200	5.49	0.20	5.69	16.99	Complies
5240	5.91	0.20	6.11	16.99	Complies

5180 MHz	5200 MHz	5240 MHz
		

Test Mode	UNII-1_IEEE 802.11ac (HT20)_ANT 2

Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5180	3.95	0.20	4.15	16.99	Complies
5200	4.24	0.20	4.44	16.99	Complies
5240	5.19	0.20	5.39	16.99	Complies

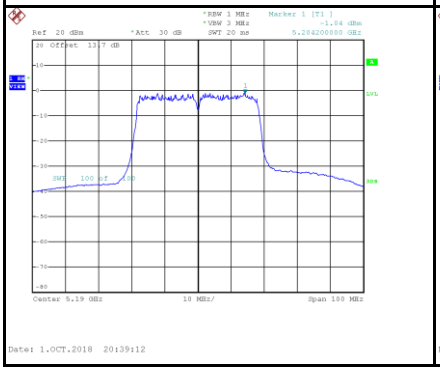
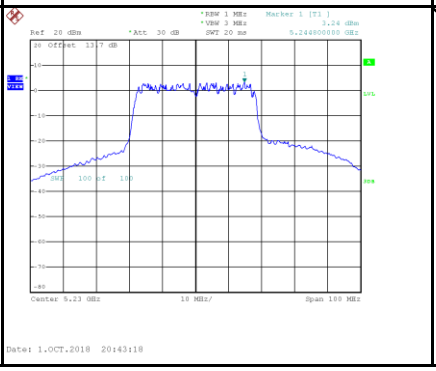
5180 MHz	5200 MHz	5240 MHz
		

Test Mode	UNII-1_IEEE 802.11ac (HT20)_Total

Frequency (MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5180	7.86	16.99	Complies
5200	8.12	16.99	Complies
5240	8.78	16.99	Complies

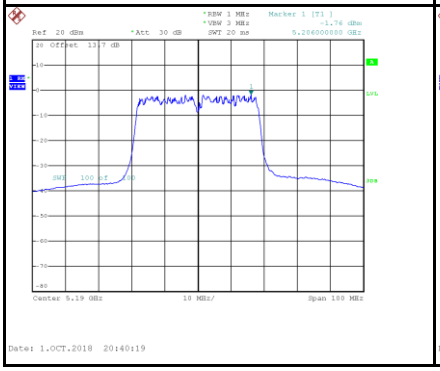
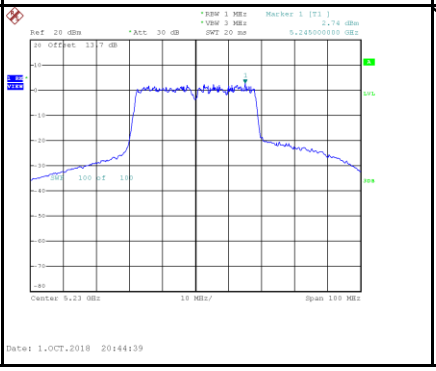
Test Mode	UNII-1_IEEE 802.11ac (HT40)_ANT 1

Frequency	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Max. Limit (dBm)	Result
5190	-1.04	0.54	-0.50	16.99	Complies
5230	3.24	0.54	3.78	16.99	Complies

5190 MHz	5230 MHz	
		

Test Mode	UNII-1_IEEE 802.11ac (HT40)_ANT 2

Frequency	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Max. Limit (dBm)	Result
5190	-1.76	0.54	-1.22	16.99	Complies
5230	2.74	0.54	3.28	16.99	Complies

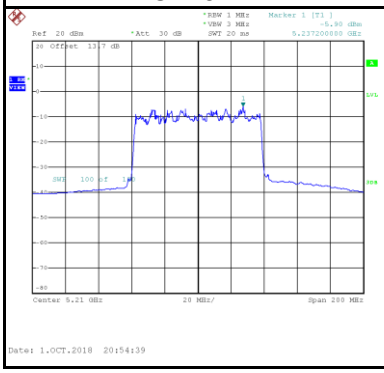
5190 MHz	5230 MHz	
		

Test Mode	UNII-1_IEEE 802.11ac (HT40)_Total

Frequency	Power Density + Duty Factor (dBm/MHz)	Max. Limit (dBm)	Result
5190	2.17	16.99	Complies
5230	6.55	16.99	Complies

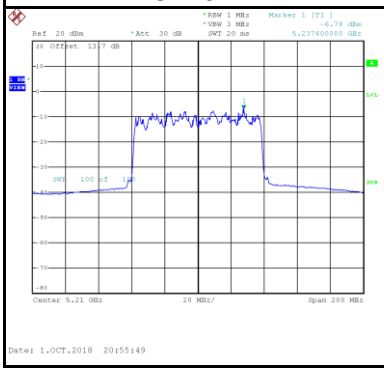
Test Mode	UNII-1_IEEE 802.11ac (VHT80)_ANT 1

Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5210	-5.90	1.22	-4.68	16.99	Complies

5210 MHz		
		

Test Mode	UNII-1_IEEE 802.11ac (VHT80)_ANT 2

Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5210	-6.78	1.22	-5.56	16.99	Complies

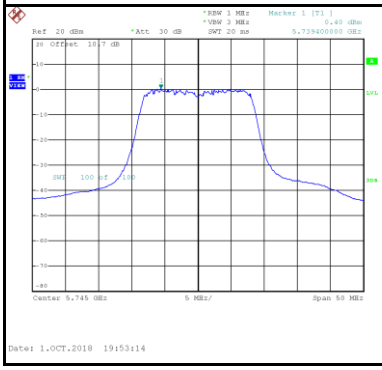
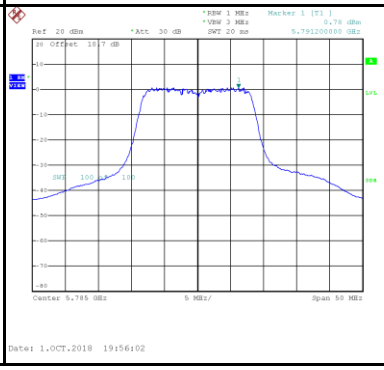
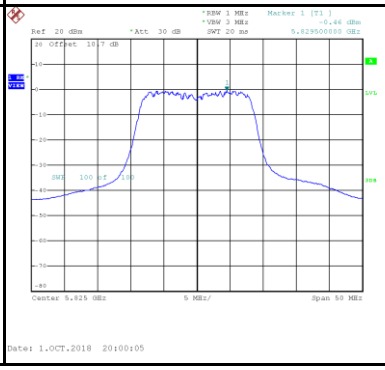
5210 MHz		
		

Test Mode	UNII-1_IEEE 802.11ac (HT40)_Total

Frequency (MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5210	-2.09	16.99	Complies

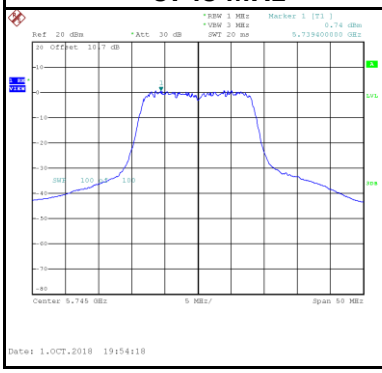
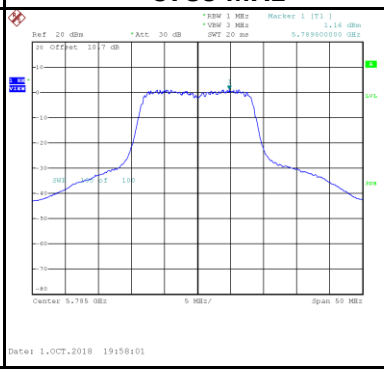
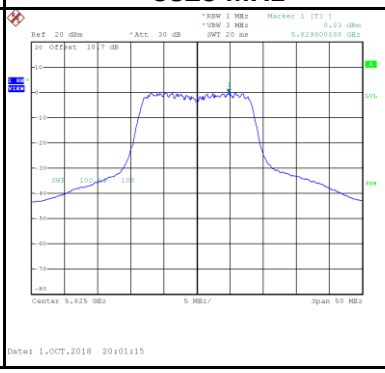
Test Mode	UNII-3_IEEE 802.11a_ANT 1

Frequency	Power Density (dBm/500 kHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm)	Result
5745	0.40	0.27	0.67	29.99	Complies
5785	0.78	0.27	1.05	29.99	Complies
5825	-0.46	0.27	-0.19	29.99	Complies

5745 MHz	5785 MHz	5825 MHz
		

Test Mode	UNII-3_IEEE 802.11a_ANT 2

Frequency	Power Density (dBm/500 kHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm)	Result
5745	0.74	0.27	1.01	29.99	Complies
5785	1.16	0.27	1.43	29.99	Complies
5825	0.03	0.27	0.30	29.99	Complies

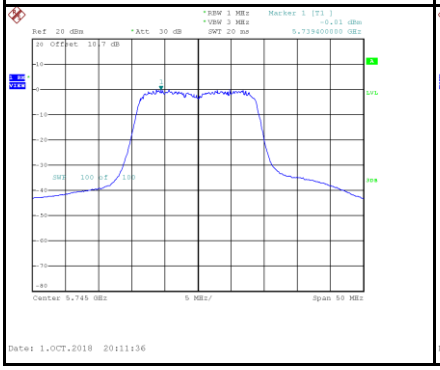
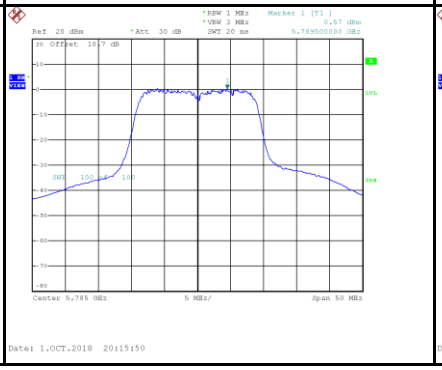
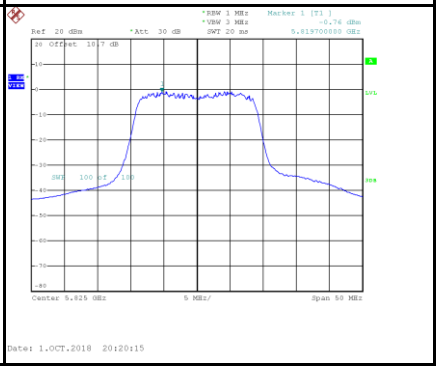
5745 MHz	5785 MHz	5825 MHz
		

Test Mode	UNII-3_IEEE 802.11a_Total

Frequency	Power Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm)	Result
5745	3.85	29.99	Complies
5785	4.25	29.99	Complies
5825	3.07	29.99	Complies

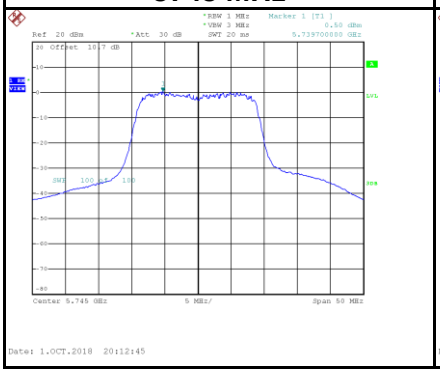
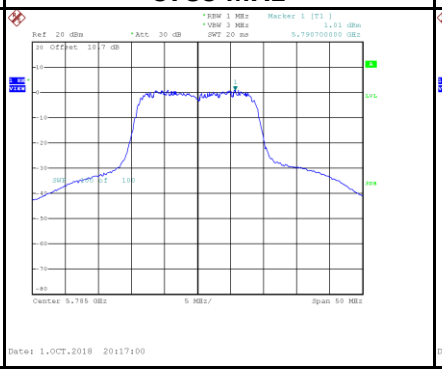
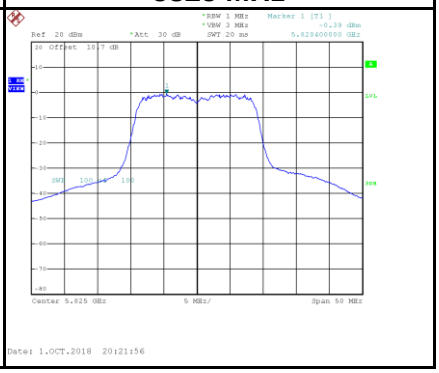
Test Mode	UNII-3_IEEE 802.11ac (HT20)_ANT 1

Frequency	Power Density (dBm/500 kHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm)	Result
5745	-0.01	0.20	0.19	29.99	Complies
5785	0.57	0.20	0.77	29.99	Complies
5825	-0.76	0.20	-0.56	29.99	Complies

5745 MHz	5785 MHz	5825 MHz
		

Test Mode	UNII-3_IEEE 802.11a_ANT 2

Frequency	Power Density (dBm/500 kHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm)	Result
5745	0.50	0.20	0.70	29.99	Complies
5785	1.01	0.20	1.21	29.99	Complies
5825	-0.39	0.20	-0.19	29.99	Complies

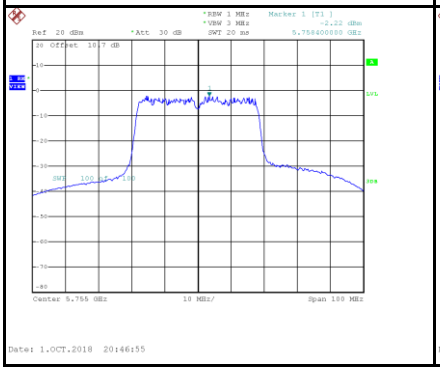
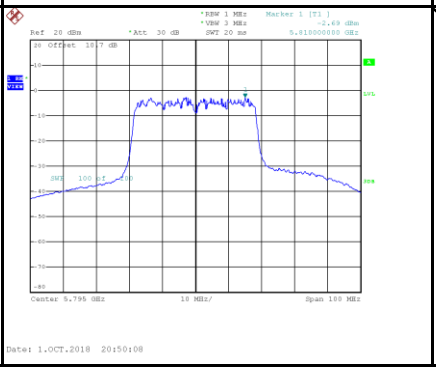
5745 MHz	5785 MHz	5825 MHz
		

Test Mode	UNII-3_IEEE 802.11a_Total

Frequency	Power Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm)	Result
5745	3.46	29.99	Complies
5785	4.01	29.99	Complies
5825	2.64	29.99	Complies

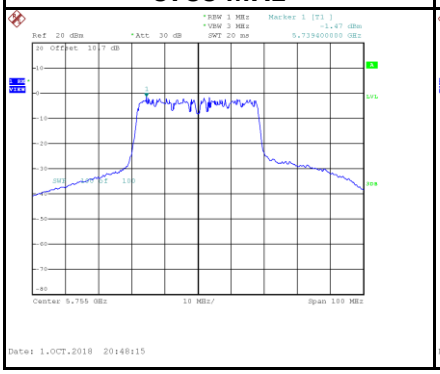
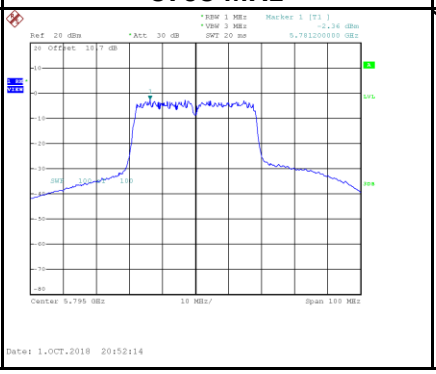
Test Mode	UNII-3_IEEE 802.11ac (HT40)_ANT 1

Frequency	Power Density (dBm/500 kHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm)	Result
5755	-2.22	0.54	-1.68	29.99	Complies
5795	-2.69	0.54	-2.15	29.99	Complies

5755 MHz	5795 MHz	
		

Test Mode	UNII-3_IEEE 802.11ac (HT40)_ANT 2

Frequency	Power Density (dBm/500 kHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm)	Result
5755	-1.47	0.54	-0.93	29.99	Complies
5795	-2.36	0.54	-1.82	29.99	Complies

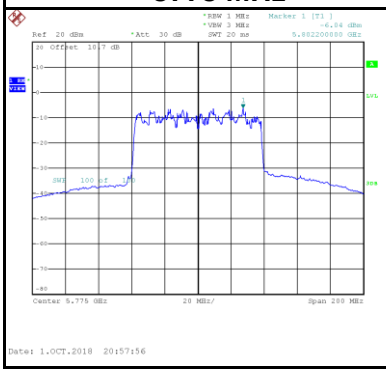
5755 MHz	5795 MHz	
		

Test Mode	UNII-3_IEEE 802.11ac (HT40)_Total

Frequency	Power Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm)	Result
5755	1.73	29.99	Complies
5795	1.03	29.99	Complies

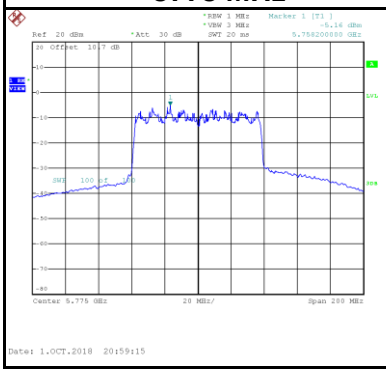
Test Mode	UNII-3_IEEE 802.11ac (VHT80)_ANT 1

Frequency	Power Density (dBm/500 kHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm)	Result
5775	-6.04	1.22	-4.82	29.99	Complies

5775 MHz		
		

Test Mode	UNII-3_IEEE 802.11ac (VHT80)_ANT 2

Frequency	Power Density (dBm/500 kHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm)	Result
5775	-5.16	1.22	-3.94	29.99	Complies

5775 MHz		
		

Test Mode	UNII-3_IEEE 802.11ac (VHT80)_Total

Frequency	Power Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm)	Result
5775	-1.35	29.99	Complies

APPENDIX H FREQUENCY STABILITY

CONTINUE ON NEXT PAGE

Test Mode	UNII-1

Voltage vs. Frequency Stability

Operating Frequency	5180
Voltage (V)	Measurement Frequency (MHz)
132	5179.9750
120	5179.9799
108	5179.9750
Maximum Deviation (MHz)	0.0250
Maximum Deviation (ppm)	4.8263

Temperature vs. Frequency Stability

Operating Frequency	5180
Temperature (°C)	Measurement Frequency (MHz)
0	5179.9799
10	5179.9950
20	5179.9599
30	5179.9799
40	5179.9799
45	5179.9599
Maximum Deviation (MHz)	0.0401
Maximum Deviation (ppm)	7.7461

Test Mode	UNII-3

Voltage vs. Frequency Stability

Operating Frequency	5745
Voltage (V)	Measurement Frequency (MHz)
132	5744.9750
120	5744.9750
108	5744.9599
Maximum Deviation (MHz)	0.0401
Maximum Deviation (ppm)	6.9822

Temperature vs. Frequency Stability

Operating Frequency	5745
Temperature (°C)	Measurement Frequency (MHz)
0	5744.9750
10	5744.9599
20	5744.9902
30	5744.9750
40	5744.9599
45	5744.9599
Maximum Deviation (MHz)	0.0401
Maximum Deviation (ppm)	6.9843

End of Test Report