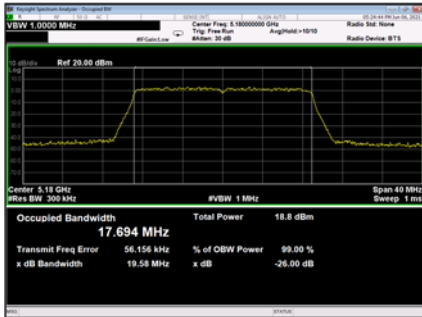


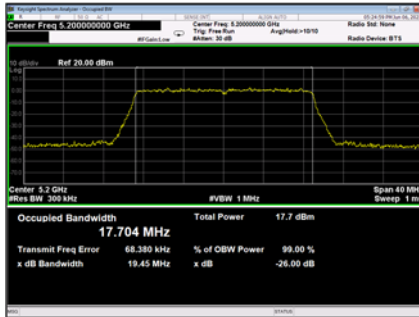
UNII-1_TX AC (VHT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	19.58	17.694
40	5200	19.45	17.704
48	5240	19.59	17.670

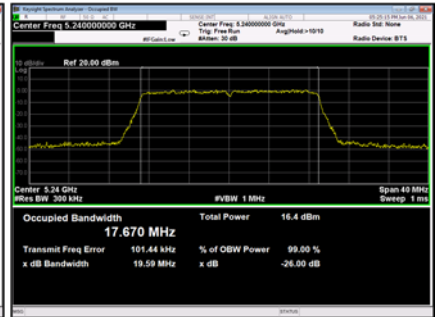
CH36



CH40



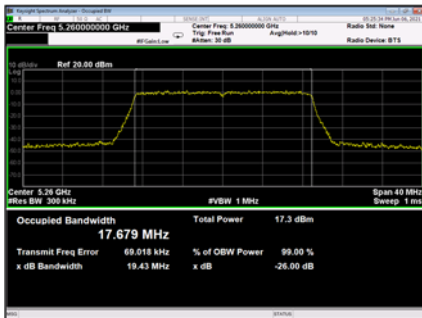
CH48



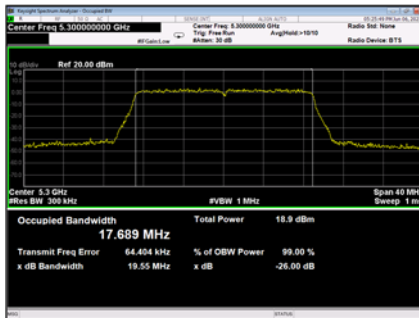
UNII-2A_TX AC (VHT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
52	5260	19.43	17.679
60	5300	19.55	17.689
64	5320	19.54	17.686

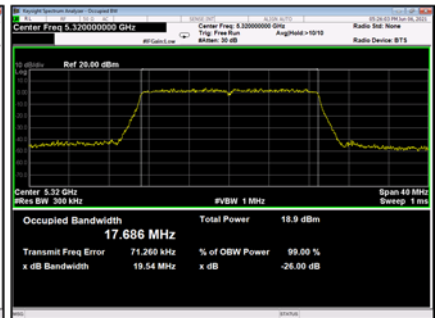
CH52



CH60



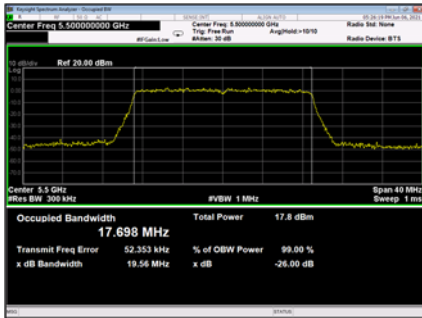
CH64



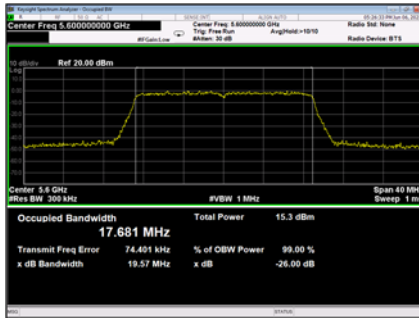
UNII-2C_TX AC (VHT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
100	5500	19.56	17.698
120	5600	19.57	17.681
140	5700	19.42	17.667

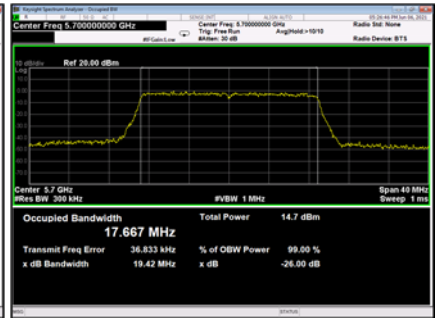
CH100



CH120



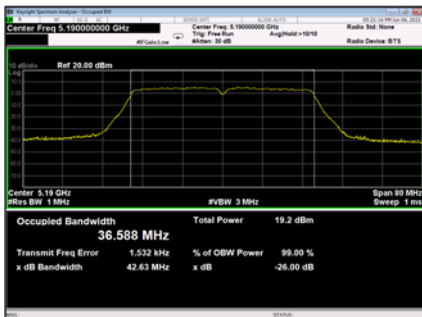
CH140



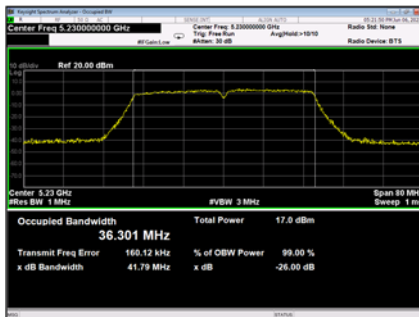
UNII-1_TX AC (VHT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
38	5190	42.63	36.588
46	5230	41.79	36.301

CH38



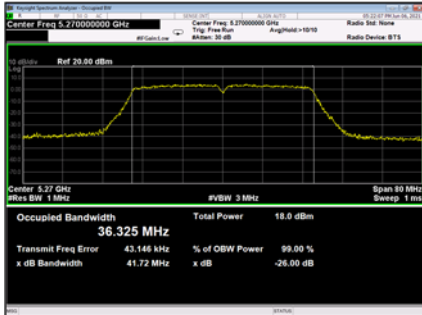
CH46



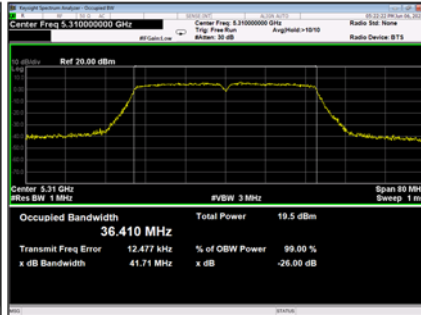
UNII-2A_TX AC (VHT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
54	5270	41.72	36.325
62	5310	41.71	36.410

CH54



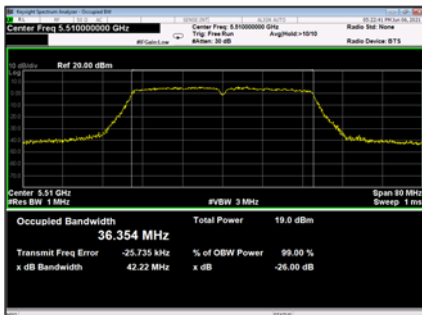
CH62



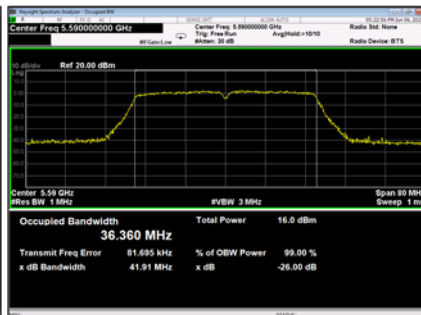
UNII-2C_TX AC (VHT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
102	5510	42.22	36.354
118	5590	41.91	36.360
134	5670	41.97	36.320

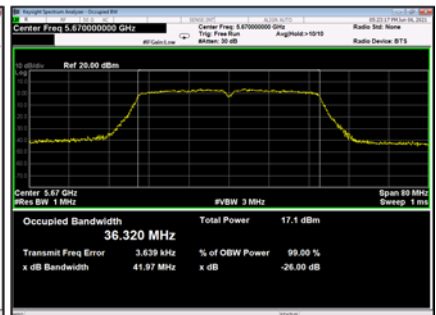
CH102



CH118



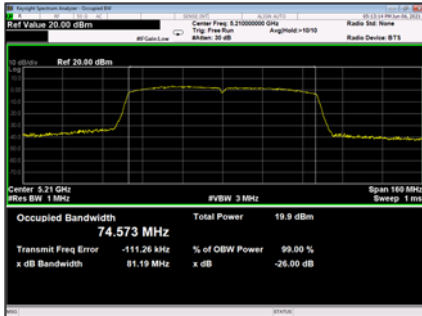
CH134



UNII-1_TX AC (VHT80) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
42	5210	81.19	74.573

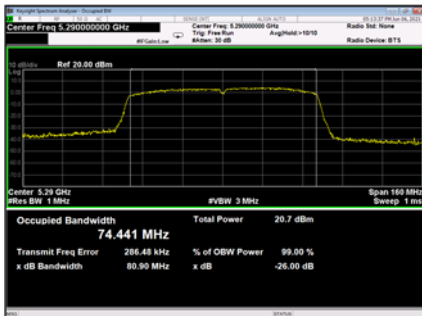
CH42



UNII-2A_TX AC (VHT80) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
58	5290	80.90	74.441

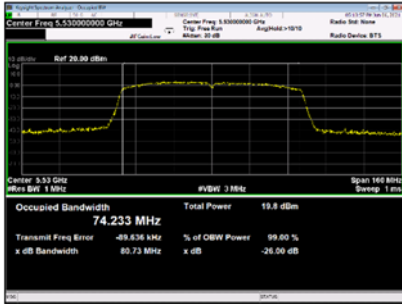
CH58



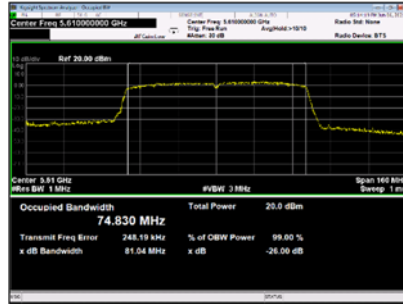
UNII-2C_TX AC (VHT80) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
106	5530	80.73	74.233
122	5610	81.04	74.830

CH106



CH122

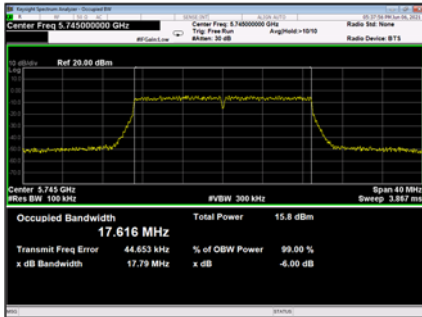


UNII-3_TX AC (VHT20) Mode

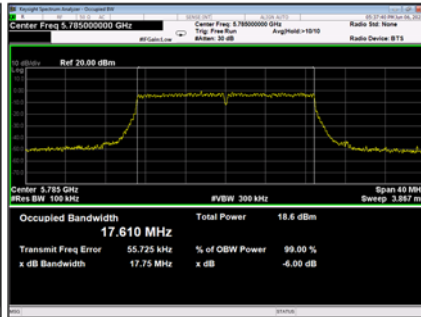
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
149	5745	17.79	17.681	500	PASS
157	5785	17.75	17.705	500	PASS
165	5825	17.77	17.713	500	PASS

6 dB Bandwidth

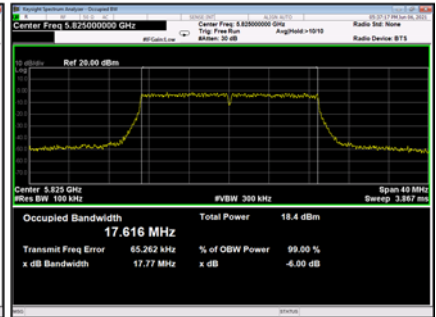
CH149



CH157

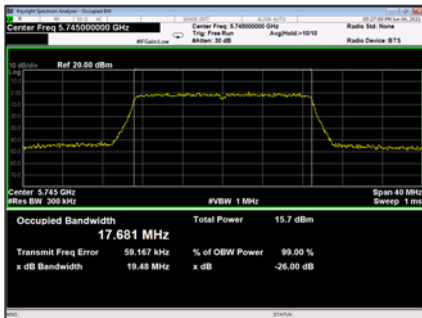


CH165

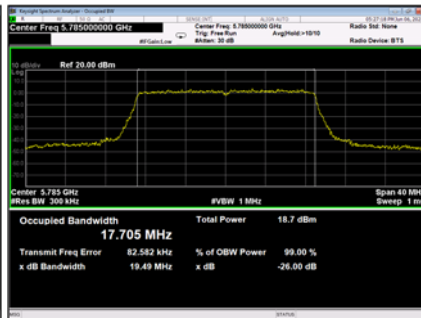


99% Emission Bandwidth

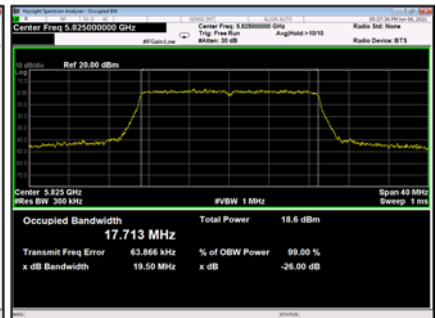
CH149



CH157



CH165

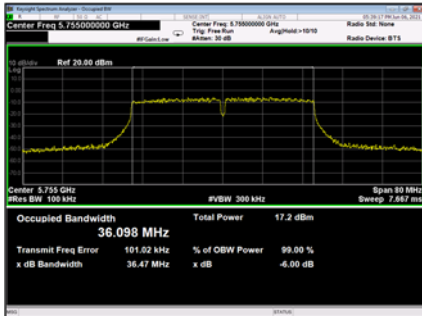


UNII-3_TX AC (VHT40) Mode

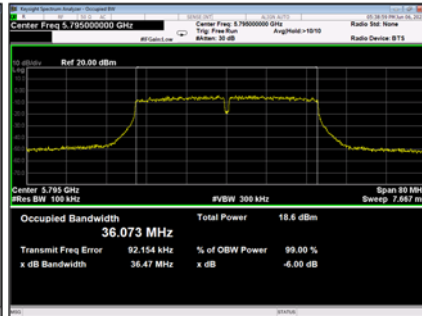
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
151	5755	36.47	36.466	500	PASS
159	5795	36.47	36.325	500	PASS

6 dB Bandwidth

CH151

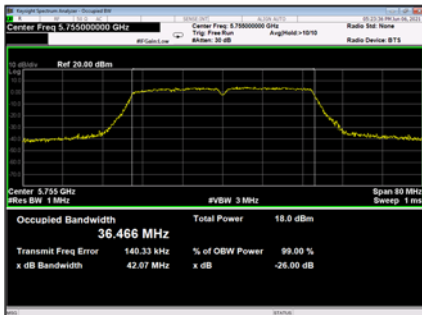


CH159

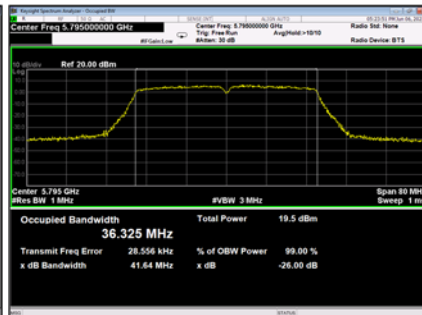


99% Emission Bandwidth

CH151



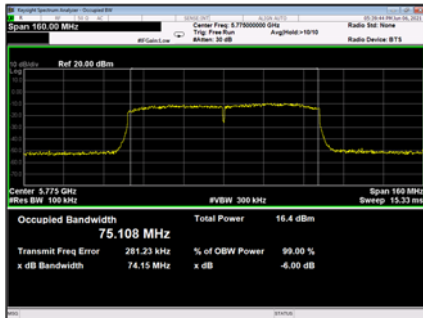
CH159



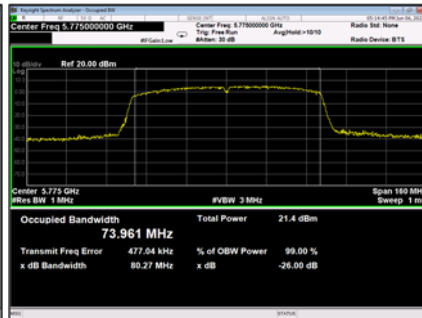
UNII-3_TX AC (VHT80) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
155	5775	74.15	73.961	500	PASS

6 dB Bandwidth CH155



99% Emission Bandwidth CH155



7 MAXIMUM OUTPUT POWER TEST

7.1 LIMIT

FCC Part15, Subpart E (15.407)&RSS-247			
Section	Test Item	Limit	Frequency Range (MHz)
RSS-247 6.2.1.1	EIRP Output Power	not exceed 200 mW or $10 + 10 \log B$, dBm, whichever power is less	5150-5250
15.407(a)	Maximum Output Power	AP device: 1 Watt (30dBm) Client device: 250mW (24dBm)	5150-5250
15.407(a) RSS-247 6.2.4.1	Maximum Output Power	1 Watt (30dBm)	5725-5850

Note:

- For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- B is the 99% emission bandwidth in megahertz.

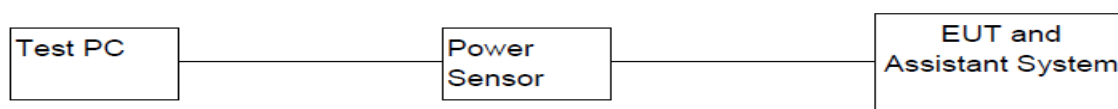
7.2 TEST PROCEDURE AND SETTING

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- Test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- EIRP Power=Output Power+Directional Gain
MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3dBi+3dBi=6.01dBi

7.3 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Power Sensor	KEYSIGHT	U2021XA	MY55240009	05/23/2022
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Micable	C10-01-01-1	100309	N/A
4	Test Software	KEYSIGHT	Power Panel	V3.11	N/A

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

UNII-1_TX A Mode_Ant 1 For FCC

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	14.22	0.00	14.22	24.00	0.25	PASS
40	5200	14.17	0.00	14.17	24.00	0.25	PASS
48	5240	14.68	0.00	14.68	24.00	0.25	PASS

UNII-1_TX A Mode_Ant 2For FCC

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	14.78	0.00	14.78	24.00	0.25	PASS
40	5200	14.82	0.00	14.82	24.00	0.25	PASS
48	5240	14.64	0.00	14.64	24.00	0.25	PASS

UNII-1_TX A Mode_Ant 1 For IC

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	EIRP + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	17.22	0.00	17.22	23.00	0.2	PASS
40	5200	17.17	0.00	17.17	23.00	0.2	PASS
48	5240	17.68	0.00	17.68	23.00	0.2	PASS

UNII-1_TX A Mode_Ant 2 For IC

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	EIRP + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	17.78	0.00	17.78	23.00	0.2	PASS
40	5200	17.82	0.00	17.82	23.00	0.2	PASS
48	5240	17.64	0.00	17.64	23.00	0.2	PASS

UNII-2A_TX A Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
52	5260	14.47	0.00	14.47	24.00	0.25	PASS
60	5300	14.59	0.00	14.59	24.00	0.25	PASS
64	5320	14.59	0.00	14.59	24.00	0.25	PASS

UNII-2A_TX A Mode_Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
52	5260	14.57	0.00	14.57	24.00	0.25	PASS
60	5300	14.36	0.00	14.36	24.00	0.25	PASS
64	5320	14.47	0.00	14.47	24.00	0.25	PASS

UNII-2C_TX A Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
100	5500	14.99	0.00	14.99	24.00	0.25	PASS
120	5600	14.82	0.00	14.82	24.00	0.25	PASS
140	5700	14.85	0.00	14.85	24.00	0.25	PASS

UNII-2C_TX A Mode_Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
100	5500	14.88	0.00	14.88	24.00	0.25	PASS
120	5600	14.75	0.00	14.75	24.00	0.25	PASS
140	5700	14.63	0.00	14.63	24.00	0.25	PASS

UNII-1_TX N (HT20) Mode _Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	13.58	0.00	13.58	24.00	0.25	PASS
40	5200	13.31	0.00	13.31	24.00	0.25	PASS
48	5240	13.43	0.00	13.43	24.00	0.25	PASS

UNII-1_TX N (HT20) Mode _Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	13.62	0.00	13.62	24.00	0.25	PASS
40	5200	13.57	0.00	13.57	24.00	0.25	PASS
48	5240	13.28	0.00	13.28	24.00	0.25	PASS

UNII-1_TX N (HT20) Mode _Total For FCC					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	16.61	24.00	0.25	PASS
40	5200	16.45	24.00	0.25	PASS
48	5240	16.37	24.00	0.25	PASS

UNII-1_TX N (HT20) Mode _Total For IC					
Channel	Frequency (MHz)	EIRP Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	22.62	23.00	0.2	PASS
40	5200	22.46	23.00	0.2	PASS
48	5240	22.38	23.00	0.2	PASS

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3dBi+3dBi=6.01dBi

UNII-2A_TX N (HT20) Mode _Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
52	5260	14.26	0.00	14.26	24.00	0.25	PASS
60	5300	14.19	0.00	14.19	24.00	0.25	PASS
64	5320	14.82	0.00	14.82	24.00	0.25	PASS

UNII-2A_TX N (HT20) Mode _Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
52	5260	14.41	0.00	14.41	24.00	0.25	PASS
60	5300	14.36	0.00	14.36	24.00	0.25	PASS
64	5320	14.18	0.00	14.18	24.00	0.25	PASS

UNII-2A_TX N (HT20) Mode _Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
52	5260	17.35	24.00	0.25	PASS
60	5300	17.29	24.00	0.25	PASS
64	5320	17.52	24.00	0.25	PASS

UNII-2C_TX N (HT20) Mode _Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
100	5500	14.31	0.00	14.31	24.00	0.25	PASS
120	5600	14.56	0.00	14.56	24.00	0.25	PASS
140	5700	14.39	0.00	14.69	24.00	0.25	PASS

UNII-2C_TX N (HT20) Mode _Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
100	5500	14.29	0.00	14.29	24.00	0.25	PASS
120	5600	14.44	0.00	14.44	24.00	0.25	PASS
140	5700	14.38	0.00	14.38	24.00	0.25	PASS

UNII-2C_TX N (HT20) Mode _Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
100	5500	17.31	24.00	0.25	PASS
120	5600	17.51	24.00	0.25	PASS
140	5700	17.40	24.00	0.25	PASS

UNII-1_TX N (HT40) Mode_Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	13.87	0.00	13.87	24.00	0.25	PASS
46	5230	13.69	0.00	13.69	24.00	0.25	PASS

UNII-1_TX N (HT40) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	13.75	0.00	13.75	24.00	0.25	PASS
46	5230	13.66	0.00	13.66	24.00	0.25	PASS

UNII-1_TX N (HT40) Mode_Total For FCC					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	16.82	24.00	0.25	PASS
46	5230	16.69	24.00	0.25	PASS

UNII-1_TX N (HT40) Mode_Total For IC					
Channel	Frequency (MHz)	EIRP Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	22.83	23.00	0.2	PASS
46	5230	22.70	23.00	0.2	PASS

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3dBi+3dBi=6.01dBi

UNII-2A_TX N (HT40) Mode_Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
54	5270	14.19	0.00	14.19	24.00	0.25	PASS
62	5310	14.36	0.00	14.36	24.00	0.25	PASS

UNII-2A_TX N (HT40) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
54	5270	14.64	0.00	14.64	24.00	0.25	PASS
62	5310	14.27	0.00	14.27	24.00	0.25	PASS

UNII-2A_TX N (HT40) Mode_Total For FCC					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
54	5270	17.43	24.00	0.25	PASS
62	5310	17.33	24.00	0.25	PASS

UNII-2C_TX N (HT40) Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
102	5510	14.72	0.00	14.72	24.00	0.25	PASS
118	5590	14.46	0.00	14.46	24.00	0.25	PASS
134	5670	14.39	0.00	14.39	24.00	0.25	PASS

UNII-2C_TX N (HT40) Mode_Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
102	5510	14.35	0.00	14.35	24.00	0.25	PASS
118	5590	14.66	0.00	14.66	24.00	0.25	PASS
134	5670	14.54	0.00	14.54	24.00	0.25	PASS

UNII-2C_TX N (HT40) Mode_Total For FCC

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
102	5510	17.55	24.00	0.25	PASS
118	5590	17.57	24.00	0.25	PASS
134	5670	17.48	24.00	0.25	PASS

UNII-3_TX A Mode_Ant1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	14.19	0	14.19	30.00	1.00	PASS
157	5785	14.65	0	14.65	30.00	1.00	PASS
165	5825	14.23	0	14.23	30.00	1.00	PASS

UNII-3_TX A Mode_Ant2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	14.38	0	14.38	30.00	1.00	PASS
157	5785	14.54	0	14.54	30.00	1.00	PASS
165	5825	14.33	0	14.33	30.00	1.00	PASS

UNII-3_TX N (HT20) Mode_Ant1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	14.47	0.00	14.47	30.00	1.00	PASS
157	5785	14.58	0.00	14.58	30.00	1.00	PASS
165	5825	14.66	0.00	14.66	30.00	1.00	PASS

UNII-3_TX N (HT20) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	14.08	0.00	14.08	30.00	1.00	PASS
157	5785	14.52	0.00	14.52	30.00	1.00	PASS
165	5825	14.31	0.00	14.31	30.00	1.00	PASS

UNII-3_TX N (HT20) Mode_Total					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	17.29	30.00	1.00	PASS
157	5785	17.56	30.00	1.00	PASS
165	5825	17.50	30.00	1.00	PASS

UNII-3_TX N (HT40) Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	14.83	0.00	14.83	30.00	1.00	PASS
159	5795	14.64	0.00	14.64	30.00	1.00	PASS

UNII-3_TX N (HT40) Mode_Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	14.39	0.00	14.39	30.00	1.00	PASS
159	5795	14.71	0.00	14.71	30.00	1.00	PASS

UNII-3_TX N (HT40) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	17.63	30.00	1.00	PASS
159	5795	17.69	30.00	1.00	PASS

UNII-1_TX AC (VHT20) Mode_Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	12.52	0.00	12.52	24.00	0.25	PASS
40	5200	12.39	0.00	12.39	24.00	0.25	PASS
48	5240	12.64	0.00	12.64	24.00	0.25	PASS

UNII-1_TX AC (VHT20) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	12.55	0.00	12.55	24.00	0.25	PASS
40	5200	12.09	0.00	12.09	24.00	0.25	PASS
48	5240	12.52	0.00	12.52	24.00	0.25	PASS

UNII-1_TX AC (VHT20) Mode_Total For FCC					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	15.55	24.00	0.25	PASS
40	5200	15.25	24.00	0.25	PASS
48	5240	15.59	24.00	0.25	PASS

UNII-1_TX AC (VHT20) Mode_Total For IC					
Channel	Frequency (MHz)	EIRP Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	21.56	23.00	0.2	PASS
40	5200	21.26	23.00	0.2	PASS
48	5240	21.60	23.00	0.2	PASS

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3dBi+3dBi=6.01dBi

UNII-2A_TX AC (VHT20) Mode_Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
52	5260	12.73	0.00	12.73	24.00	0.25	PASS
60	5300	12.82	0.00	12.82	24.00	0.25	PASS
64	5320	12.46	0.00	12.46	24.00	0.25	PASS

UNII-2A_TX AC (VHT20) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
52	5260	12.38	0.00	12.38	24.00	0.25	PASS
60	5300	12.64	0.00	12.64	24.00	0.25	PASS
64	5320	12.57	0.00	12.57	24.00	0.25	PASS

UNII-2A_TX AC (VHT20) Mode_Total					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
52	5260	15.57	24.00	0.25	PASS
60	5300	15.74	24.00	0.25	PASS
64	5320	15.53	24.00	0.25	PASS

UNII-2C_TX AC (VHT20) Mode_Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
100	5500	12.59	0.00	12.59	24.00	0.25	PASS
120	5600	12.66	0.00	12.66	24.00	0.25	PASS
140	5700	12.38	0.00	12.38	24.00	0.25	PASS

UNII-2C_TX AC (VHT20) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
100	5500	12.63	0.00	12.63	24.00	0.25	PASS
120	5600	12.76	0.00	12.76	24.00	0.25	PASS
140	5700	12.91	0.00	12.91	24.00	0.25	PASS

UNII-2C_TX AC (VHT20) Mode_Total					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
100	5500	15.62	24.00	0.25	PASS
120	5600	15.72	24.00	0.25	PASS
140	5700	15.66	24.00	0.25	PASS

UNII-1_TX AC (VHT40) Mode_Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	12.88	0.00	12.88	24.00	0.25	PASS
46	5230	12.81	0.00	12.81	24.00	0.25	PASS

UNII-1_TX AC (VHT40) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	12.85	0.00	12.85	24.00	0.25	PASS
46	5230	12.49	0.00	12.49	24.00	0.25	PASS

UNII-1_TX AC (VHT40) Mode_Total For FCC					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	15.88	24.00	0.25	PASS
46	5230	15.66	24.00	0.25	PASS

UNII-1_TX AC (VHT40) Mode_Total For IC					
Channel	Frequency (MHz)	EIRP Power (dBm))	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	21.89	23.00	0.2	PASS
46	5230	21.67	23.00	0.2	PASS

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3dBi+3dBi=6.01dBi

UNII-2A_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
54	5270	12.63	0.00	12.63	24.00	0.25	PASS
62	5310	12.36	0.00	12.36	24.00	0.25	PASS

UNII-2A_TX AC (VHT40) Mode_Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
54	5270	12.58	0.00	12.58	24.00	0.25	PASS
62	5310	12.41	0.00	12.41	24.00	0.25	PASS

UNII-2A_TX AC (VHT40) Mode_Total For FCC

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
54	5270	15.62	24.00	0.25	PASS
62	5310	15.40	24.00	0.25	PASS

UNII-2C_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
102	5510	12.91	0.00	12.91	24.00	0.25	PASS
118	5590	12.77	0.00	12.77	24.00	0.25	PASS
134	5670	12.66	0.00	12.66	24.00	0.25	PASS

UNII-2C_TX AC (VHT40) Mode_Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
102	5510	12.76	0.00	12.76	24.00	0.25	PASS
118	5590	12.64	0.00	12.64	24.00	0.25	PASS
134	5670	12.91	0.00	12.91	24.00	0.25	PASS

UNII-2C_TX AC (VHT40) Mode_Total For FCC

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
102	5510	15.85	24.00	0.25	PASS
118	5590	15.72	24.00	0.25	PASS
134	5670	15.80	24.00	0.25	PASS

UNII-1_TX AC (VHT80) Mode_Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	12.70	0.00	12.70	24.00	0.25	PASS

UNII-1_TX AC (VHT80) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	12.83	0.00	12.83	24.00	0.25	PASS

UNII-1_TX AC (VHT80) Mode_Total For FCC					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	15.78	24.00	0.25	PASS

UNII-1_TX AC (VHT80) Mode_Total For IC					
Channel	Frequency (MHz)	EIRP Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	21.79	23.00	0.2	PASS

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3dBi+3dBi=6.01dBi

UNII-2A_TX AC (VHT80) Mode_Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
58	5290	12.48	0.00	12.48	24.00	0.25	PASS

UNII-2A_TX AC (VHT80) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
58	5290	12.48	0.00	12.48	24.00	0.25	PASS

UNII-2A_TX AC (VHT80) Mode_Total For FCC					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
58	5290	15.49	24.00	0.25	PASS

UNII-2C_TX AC (VHT80) Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
106	5530	12.82	0.00	12.82	24.00	0.25	PASS
122	5610	12.41	0.00	12.41	24.00	0.25	PASS

UNII-2C_TX AC (VHT80) Mode_Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
106	5530	12.76	0.00	12.76	24.00	0.25	PASS
122	5610	12.51	0.00	12.51	24.00	0.25	PASS

UNII-2C_TX AC (VHT80) Mode_Total For FCC

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
106	5530	15.80	24.00	0.25	PASS
122	5610	15.47	24.00	0.25	PASS

UNII-3_TX AC (VHT20) Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	12.18	0.00	12.18	30.00	1.00	PASS
157	5785	12.34	0.00	12.34	30.00	1.00	PASS
165	5825	12.92	0.00	12.92	30.00	1.00	PASS

UNII-3_TX AC (VHT20) Mode_Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	12.35	0.00	12.35	30.00	1.00	PASS
157	5785	12.73	0.00	12.73	30.00	1.00	PASS
165	5825	12.66	0.00	12.66	30.00	1.00	PASS

UNII-3_TX AC (VHT20) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	15.28	30.00	1.00	PASS
157	5785	15.55	30.00	1.00	PASS
165	5825	15.80	30.00	1.00	PASS

UNII-3_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	12.88	0.00	12.88	30.00	1.00	PASS
159	5795	12.84	0.00	12.84	30.00	1.00	PASS

UNII-3_TX AC (VHT40) Mode_Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	12.76	0.00	12.76	30.00	1.00	PASS
159	5795	12.68	0.00	12.68	30.00	1.00	PASS

UNII-3_TX AC (VHT40) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	15.83	30.00	1.00	PASS
159	5795	15.77	30.00	1.00	PASS

UNII-3_TX AC (VHT80) Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	12.74	0.00	12.74	30.00	1.00	PASS

UNII-3_TX AC (VHT80) Mode_Ant2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	12.64	0.00	12.64	30.00	1.00	PASS

UNII-3_TX AC (VHT80) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	15.70	30.00	1.00	PASS

8 POWER SPECTRAL DENSITY TEST

8.1 LIMIT

FCC Part15, Subpart E (15.407)&RSS-247			
Section	Test Item	Limit	Frequency Range (MHz)
RSS-247 6.2.1.2	EIRP Power Spectral Density	10dBm/MHz	5150-5250
15.407(a)	Power Spectral Density	AP device:17dBm/MHz Client device:11dBm/MHz	5150-5250
15.407(a) RSS-247 6.2.4.2	Power Spectral Density	30dBm/500kHz	5725-5850

8.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1MHz.
VBW	≥ 3MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.
- The value measured with RBW=1MHz is to be added with $10\log(500\text{kHz}/1\text{MHz})$ which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.
- EIRP Power Spectral Density = Power Spectral Density+Antenna Gain
MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3dBi+3dBi=6.01dBi

8.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/23
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

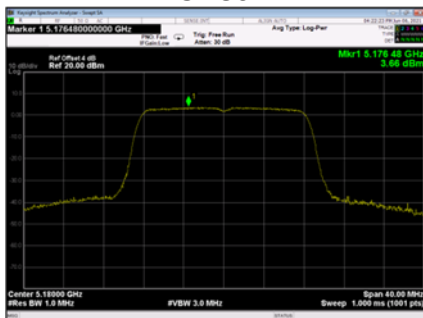
UNII-1_TX A Mode_Ant 1 For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	3.66	0.00	3.66	11.00	PASS
40	5200	1.96	0.00	1.96	11.00	PASS
48	5240	1.69	0.00	1.69	11.00	PASS

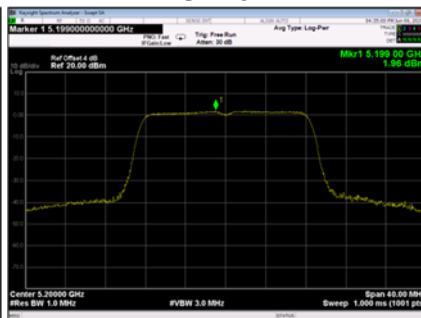
UNII-1_TX A Mode_Ant 1 For IC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	EIRP Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	6.66	0.00	6.66	10.00	PASS
40	5200	4.96	0.00	4.96	10.00	PASS
48	5240	4.69	0.00	4.69	10.00	PASS

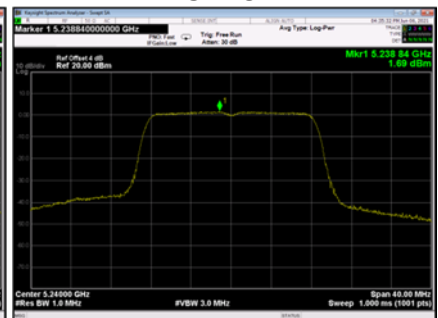
CH36



CH40



CH48



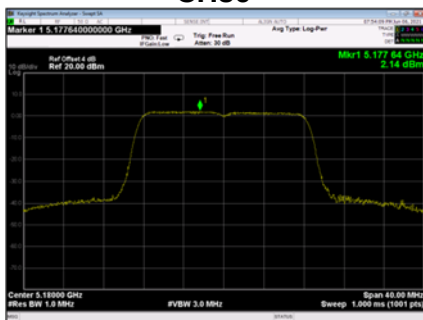
UNII-1_TX A Mode_Ant2 For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	2.14	0.00	2.14	11.00	PASS
40	5200	2.31	0.00	2.31	11.00	PASS
48	5240	1.34	0.00	1.34	11.00	PASS

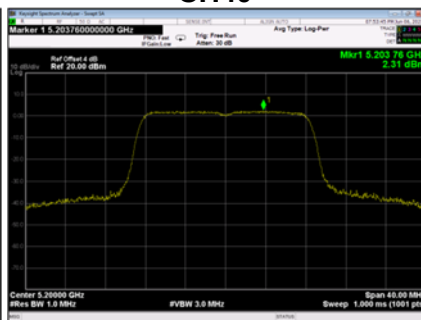
UNII-1_TX A Mode_Ant2 For IC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	EIRP Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	5.14	0.00	5.14	10.00	PASS
40	5200	5.31	0.00	5.31	10.00	PASS
48	5240	4.34	0.00	4.34	10.00	PASS

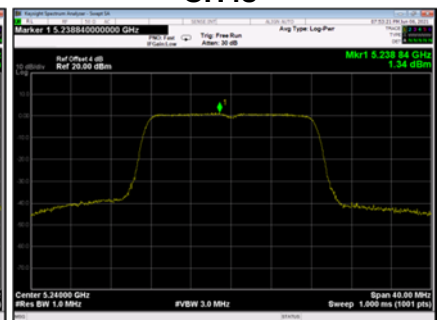
CH36



CH40



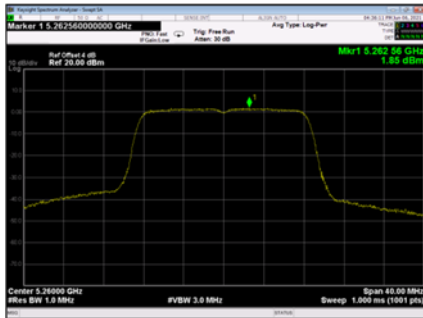
CH48



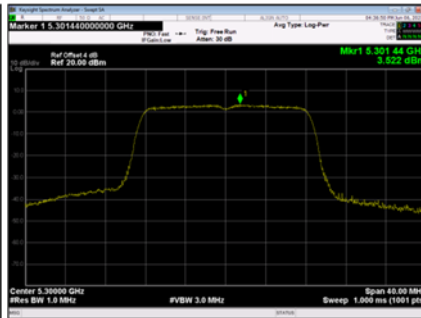
UNII-2A_TX A Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	1.85	0.00	1.85	11.00	PASS
60	5300	3.52	0.00	3.52	11.00	PASS
64	5320	3.69	0.00	3.69	11.00	PASS

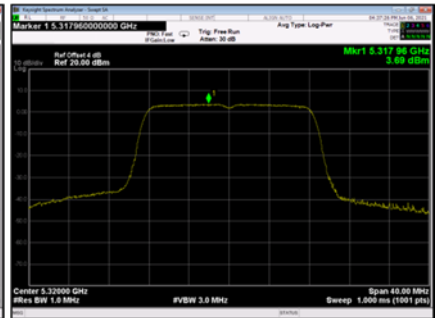
CH52



CH60



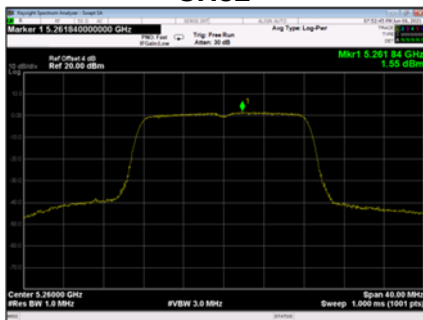
CH64



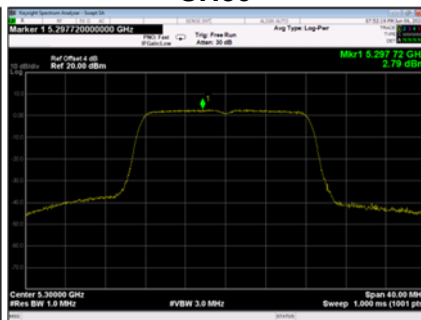
UNII-2A_TX A Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	1.55	0.00	1.55	11.00	PASS
60	5300	2.79	0.00	2.79	11.00	PASS
64	5320	3.25	0.00	3.25	11.00	PASS

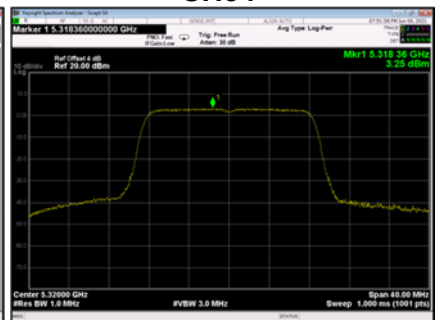
CH52



CH60



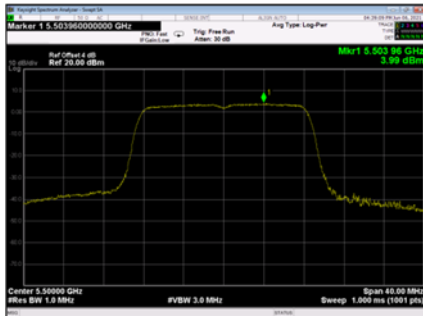
CH64



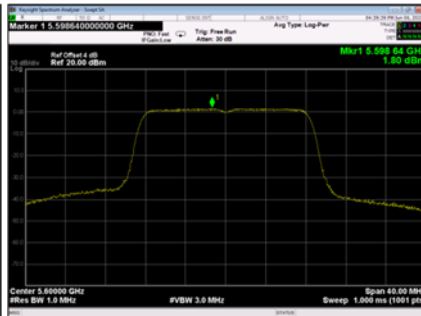
UNII-2C_TX A Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	3.99	0.00	3.99	11.00	PASS
120	5600	1.80	0.00	1.80	11.00	PASS
140	5700	1.19	0.00	1.19	11.00	PASS

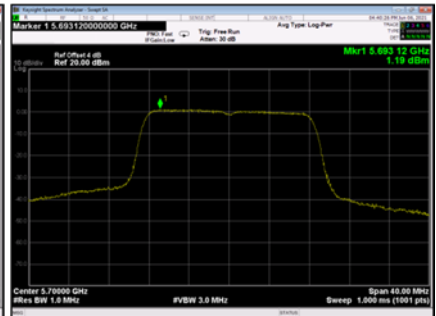
CH100



CH120



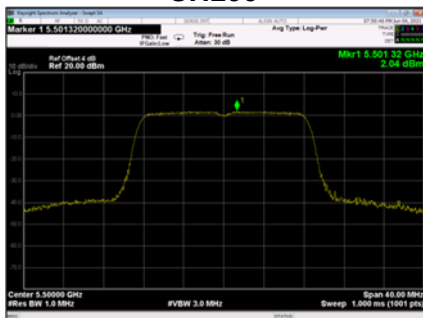
CH140



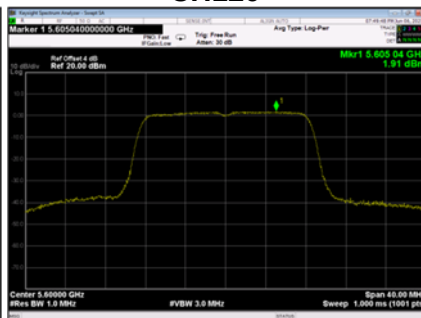
UNII-2C_TX A Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	2.04	0.00	2.04	11.00	PASS
120	5600	1.91	0.00	1.91	11.00	PASS
140	5700	1.28	0.00	1.28	11.00	PASS

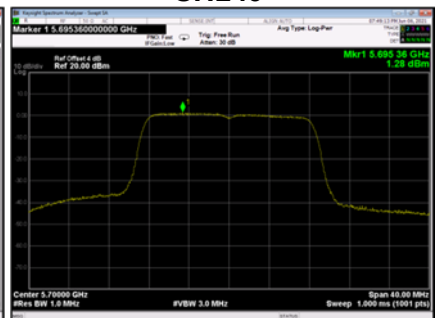
CH100



CH120



CH140



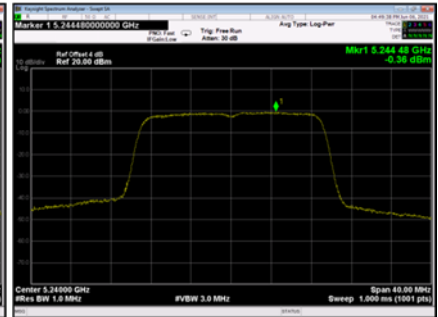
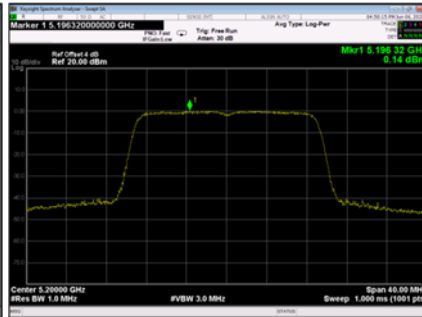
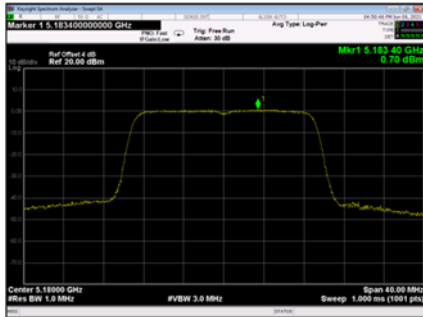
UNII-1_TX N (HT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	0.70	0.00	0.70	11.00	PASS
40	5200	0.14	0.00	0.14	11.00	PASS
48	5240	-0.36	0.00	-0.36	11.00	PASS

CH36

CH40

CH48



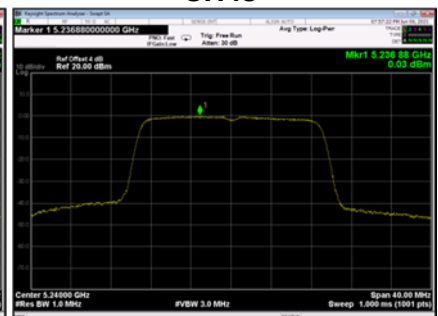
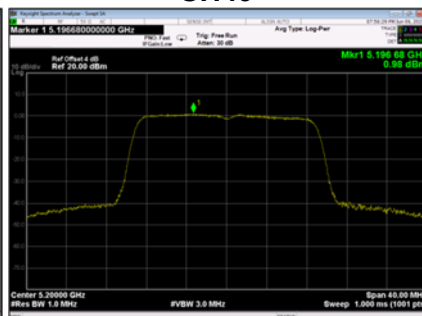
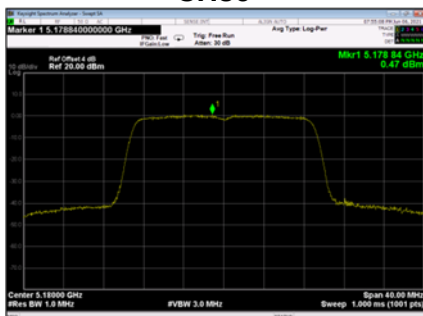
UNII-1_TX N (HT20) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	0.47	0.00	0.47	11.00	PASS
40	5200	0.98	0.00	0.98	11.00	PASS
48	5240	0.03	0.00	0.03	11.00	PASS

CH36

CH40

CH48



UNII-1_TX N (HT20) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	3.60	11.00	PASS
40	5200	3.59	11.00	PASS
48	5240	2.85	11.00	PASS

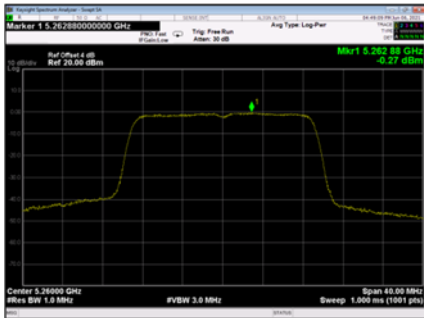
UNII-1_TX N (HT20) Mode_Total For IC

Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	9.61	10.00	PASS
40	5200	9.60	10.00	PASS
48	5240	8.86	10.00	PASS

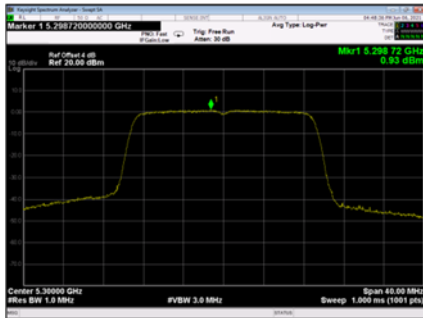
UNII-2A_TX N (HT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	-0.27	0.00	-0.27	11.00	PASS
60	5300	0.93	0.00	0.93	11.00	PASS
64	5320	1.41	0.00	1.41	11.00	PASS

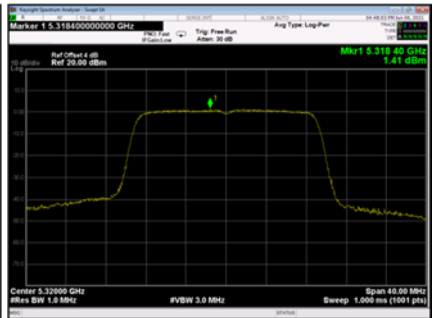
CH52



CH60



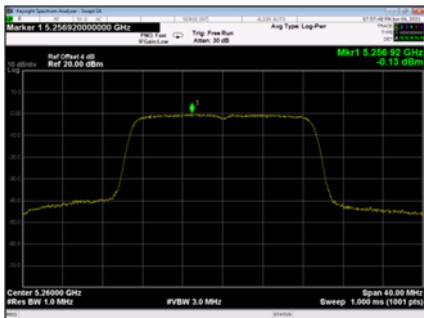
CH64



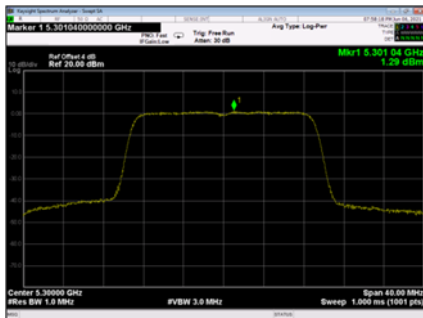
UNII-2A_TX N (HT20) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	-0.13	0.00	-0.13	11.00	PASS
60	5300	1.29	0.00	1.29	11.00	PASS
64	5320	1.15	0.00	1.15	11.00	PASS

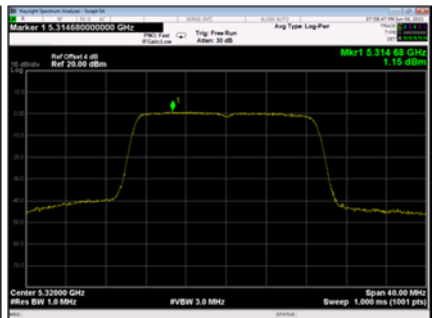
CH52



CH60



CH64



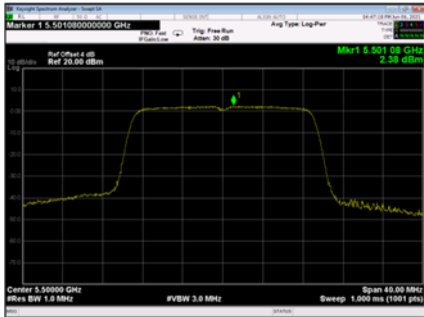
UNII-2A_TX N (HT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	2.81	11.00	PASS
60	5300	4.12	11.00	PASS
64	5320	4.29	11.00	PASS

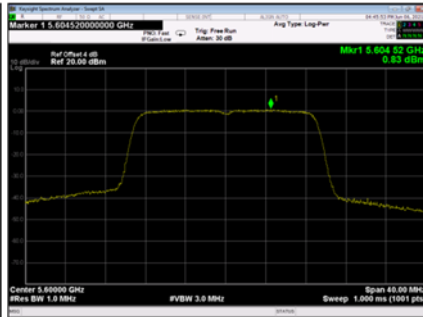
UNII-2C_TX N (HT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	2.38	0.00	2.38	11.00	PASS
120	5600	0.83	0.00	0.83	11.00	PASS
140	5700	-1.19	0.00	-1.19	11.00	PASS

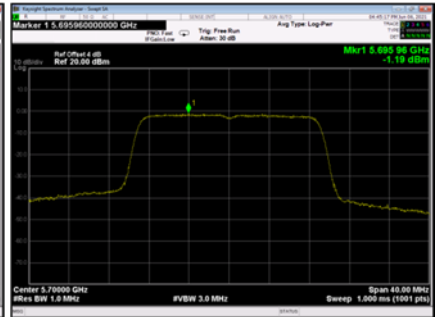
CH100



CH120



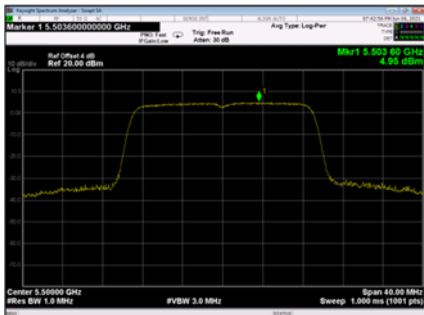
CH140



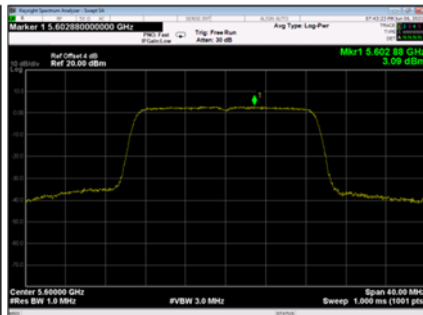
UNII-2C_TX N (HT20) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	4.95	0.00	4.95	11.00	PASS
120	5600	3.09	0.00	3.09	11.00	PASS
140	5700	0.83	0.00	0.83	11.00	PASS

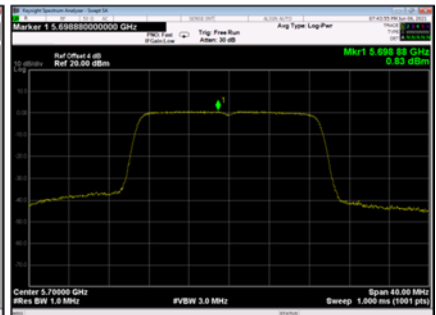
CH100



CH120



CH140



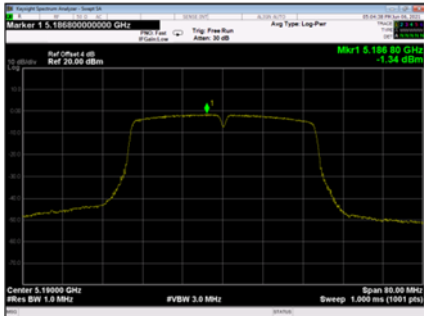
UNII-2C_TX N (HT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	6.86	11.00	PASS
120	5600	5.12	11.00	PASS
140	5700	2.95	11.00	PASS

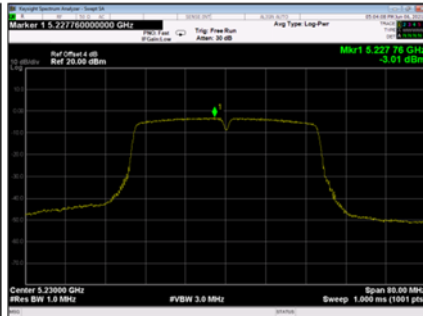
UNII-1_TX N (HT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	-1.34	0.00	-1.34	11.00	PASS
46	5230	-3.01	0.00	-3.01	11.00	PASS

CH38



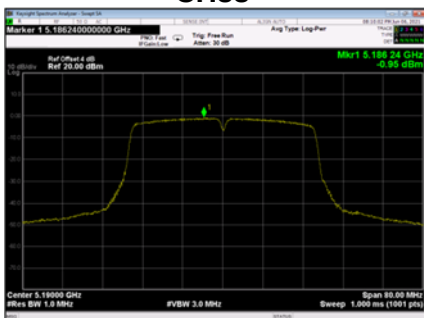
CH46



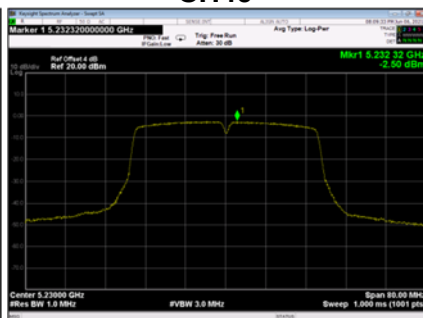
UNII-1_TX N (HT40) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	-0.95	0.00	-0.95	11.00	PASS
46	5230	-2.50	0.00	-2.50	11.00	PASS

CH38



CH46



UNII-1_TX N (HT40) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	1.87	11.00	PASS
46	5230	0.26	11.00	PASS

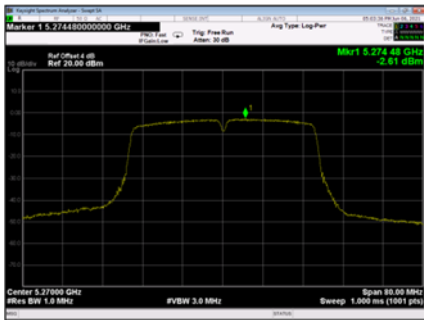
UNII-1_TX N (HT40) Mode_Total For IC

Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	7.88	10.00	PASS
46	5230	6.27	10.00	PASS

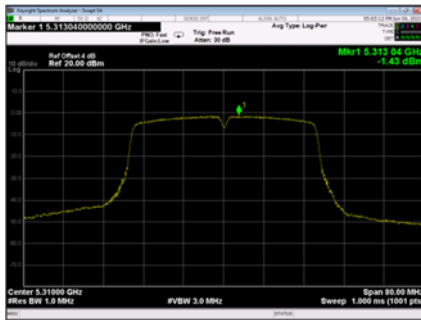
UNII-2A_TX N (HT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270	-2.61	0.00	-2.61	11.00	PASS
62	5310	-1.43	0.00	-1.43	11.00	PASS

CH54



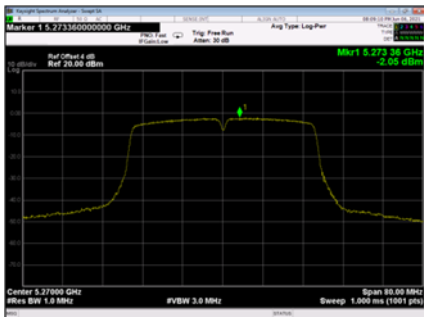
CH62



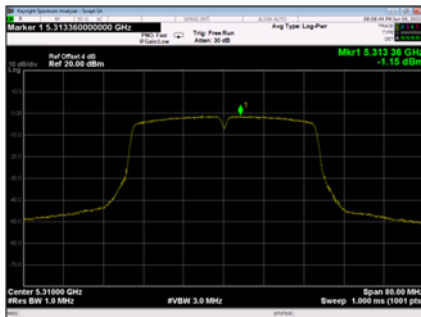
UNII-2A_TX N (HT40) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270	-2.05	0.00	-2.05	11.00	PASS
62	5310	-1.15	0.00	-1.15	11.00	PASS

CH54



CH62



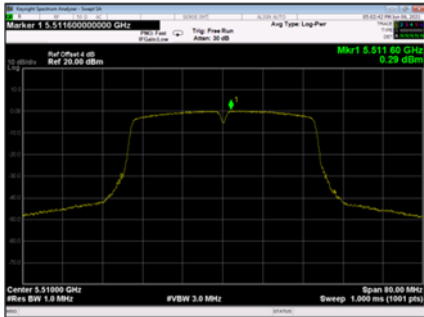
UNII-2A_TX N (HT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270	0.69	11.00	PASS
62	5310	1.72	11.00	PASS

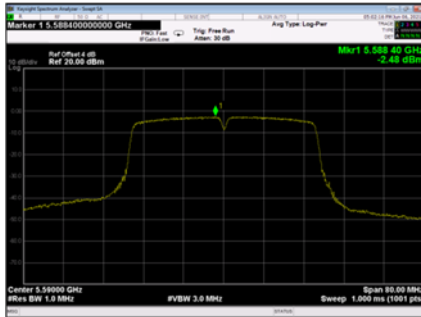
UNII-2C_TX N (HT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
102	5510	0.29	0.00	0.29	11.00	PASS
118	5590	-2.48	0.00	-2.48	11.00	PASS
134	5670	-0.97	0.00	-0.97	11.00	PASS

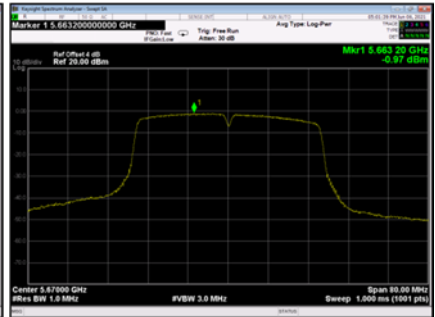
CH102



CH118



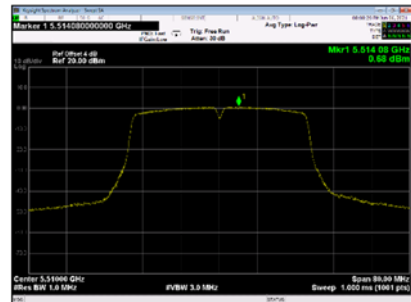
CH134



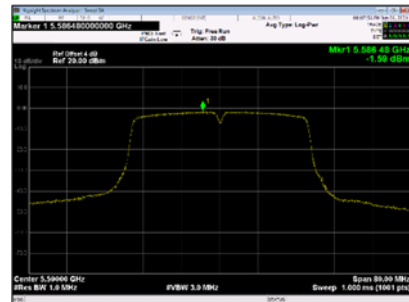
UNII-2C_TX N (HT40) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
102	5510	0.68	0.00	0.68	11.00	PASS
118	5590	-1.59	0.00	-1.59	11.00	PASS
134	5670	-0.15	0.00	-0.15	11.00	PASS

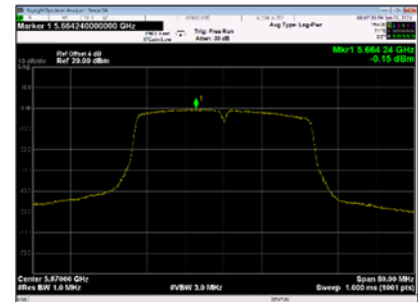
CH102



CH118



CH134



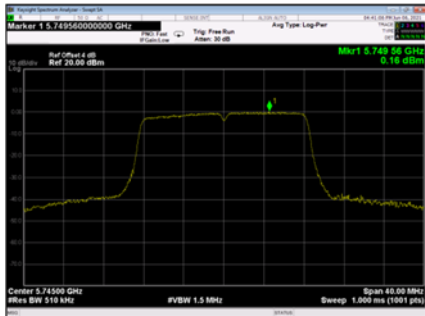
UNII-2C_TX N (HT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
102	5510	3.50	11.00	PASS
118	5590	1.00	11.00	PASS
134	5670	2.47	11.00	PASS

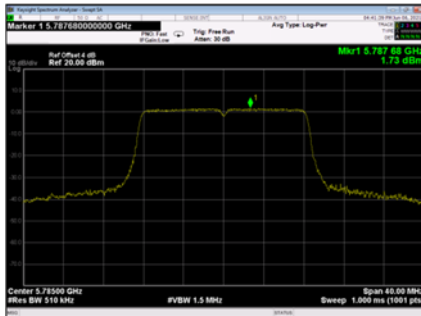
UNII-3_TX A Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	0.16	0.00	0.16	30.00	PASS
157	5785	1.73	0.00	1.73	30.00	PASS
165	5825	2.05	0.00	2.05	30.00	PASS

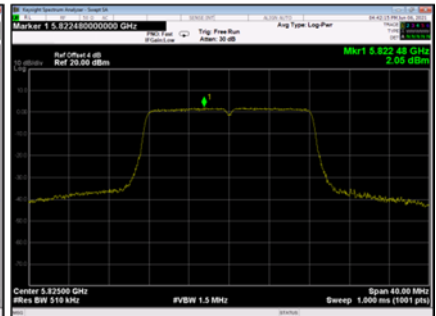
CH149



CH157



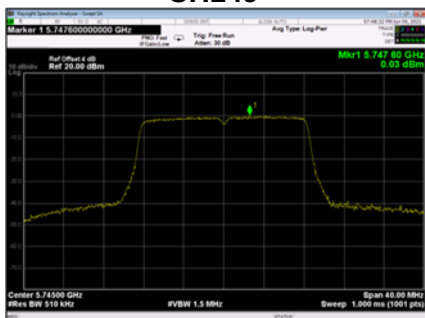
CH165



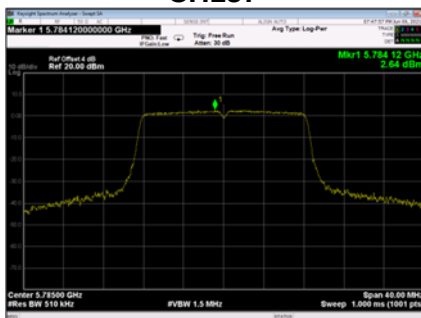
UNII-3_TX A Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	0.03	0.00	0.03	30.00	PASS
157	5785	2.64	0.00	2.64	30.00	PASS
165	5825	1.63	0.00	1.63	30.00	PASS

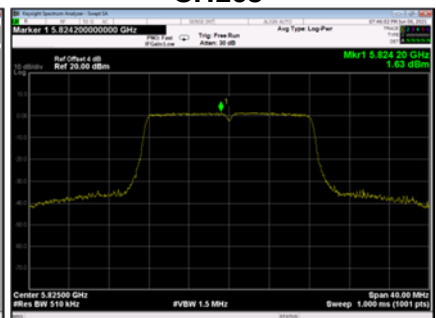
CH149



CH157



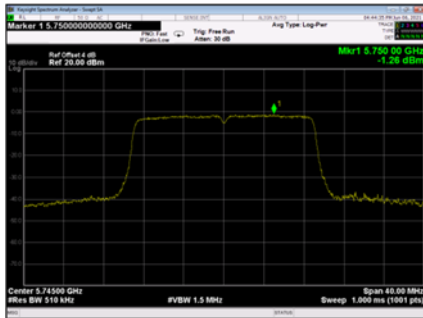
CH165



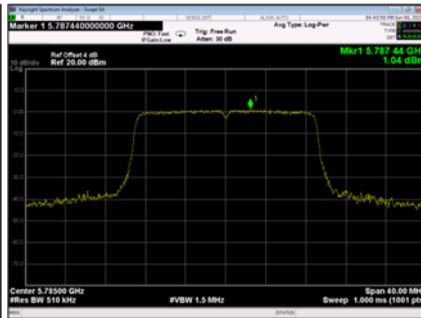
UNII-3_TX N (HT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	-1.26	0.00	-1.26	30.00	PASS
157	5785	1.04	0.00	1.04	30.00	PASS
165	5825	0.51	0.00	0.51	30.00	PASS

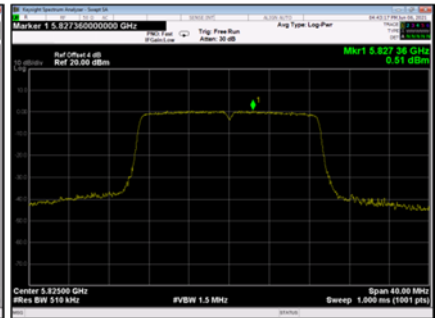
CH149



CH157



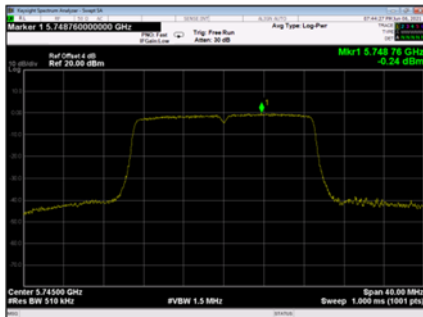
CH165



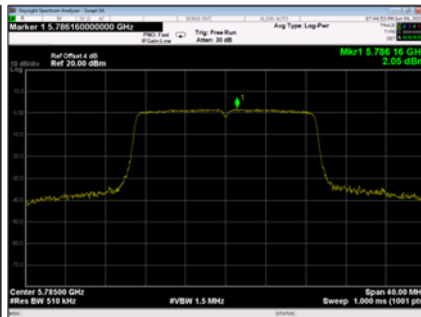
UNII-3_TX N (HT20) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	-0.24	0.00	-0.24	30.00	PASS
157	5785	2.05	0.00	2.05	30.00	PASS
165	5825	1.47	0.00	1.47	30.00	PASS

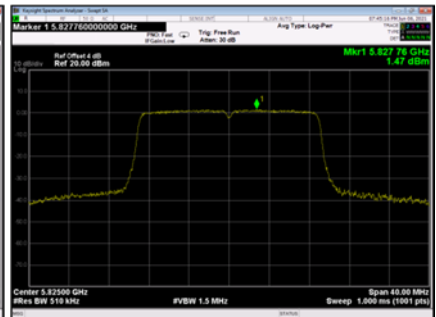
CH149



CH157



CH165



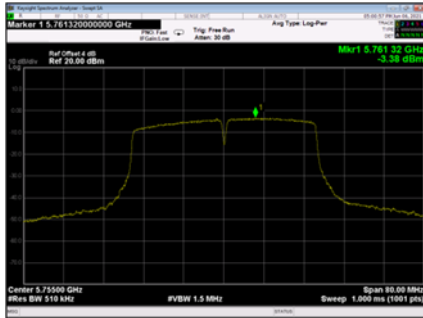
UNII-3_TX N (HT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	2.29	30.00	PASS
157	5785	4.58	30.00	PASS
165	5825	4.03	30.00	PASS

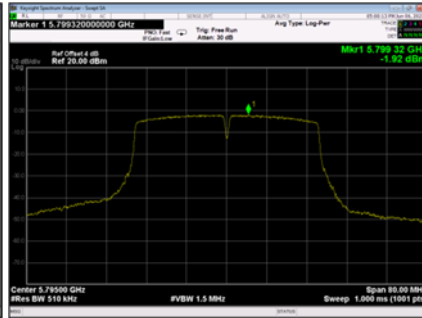
UNII-3_TX N (HT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-3.38	0.00	-3.38	30.00	PASS
159	5795	-1.92	0.00	-1.92	30.00	PASS

CH151



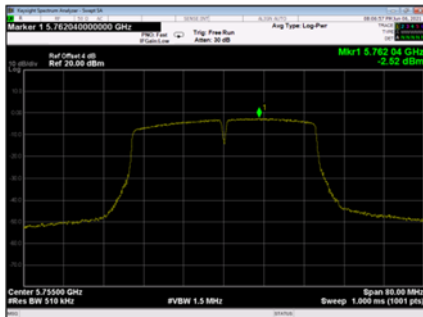
CH159



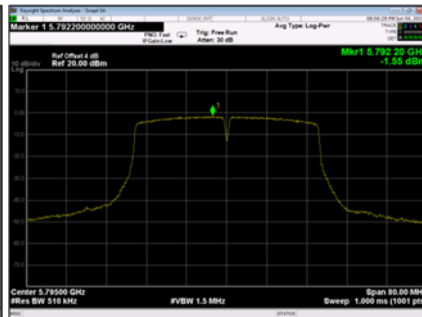
UNII-3_TX N (HT40) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-2.52	0.00	-2.52	30.00	PASS
159	5795	-1.55	0.00	-1.55	30.00	PASS

CH151



CH159



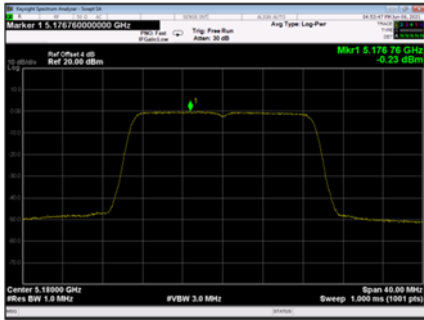
UNII-3_TX N (HT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	0.08	30.00	PASS
159	5795	1.28	30.00	PASS

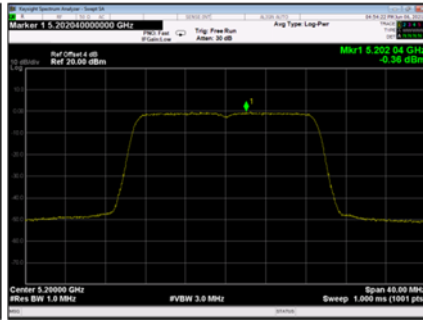
UNII-1_TX AC (VHT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	-0.23	0.00	-0.23	11.00	PASS
40	5200	-0.36	0.00	-0.36	11.00	PASS
48	5240	-1.37	0.00	-1.37	11.00	PASS

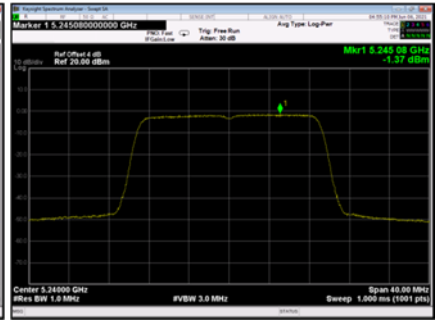
CH36



CH40



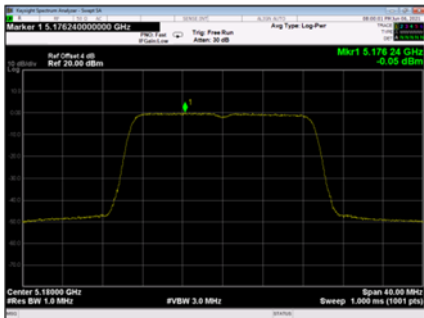
CH48



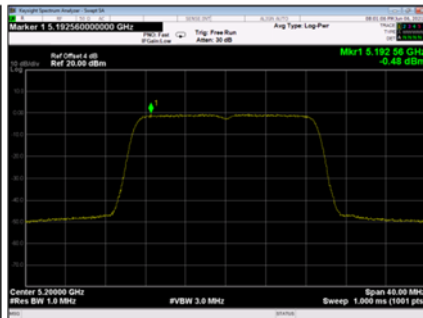
UNII-1_TX AC (VHT20) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	-0.05	0.00	-0.05	11.00	PASS
40	5200	-0.48	0.00	-0.48	11.00	PASS
48	5240	-1.27	0.00	-1.27	11.00	PASS

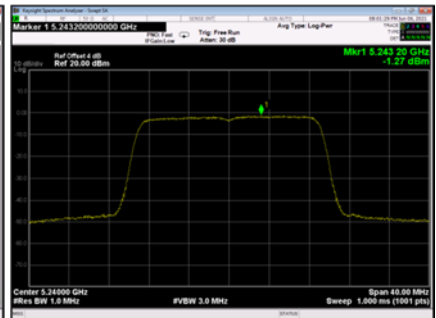
CH36



CH40



CH48



UNII-1_TX AC (VHT20) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	2.87	11.00	PASS
40	5200	2.59	11.00	PASS
48	5240	1.69	11.00	PASS

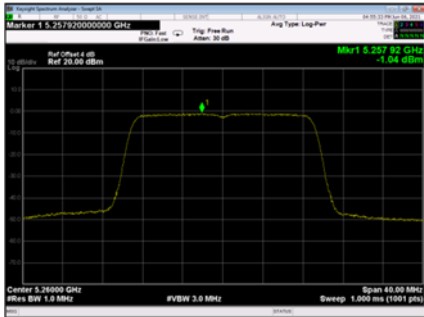
UNII-1_TX AC (VHT20) Mode_Total For IC

Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	8.88	10.00	PASS
40	5200	8.60	10.00	PASS
48	5240	7.70	10.00	PASS

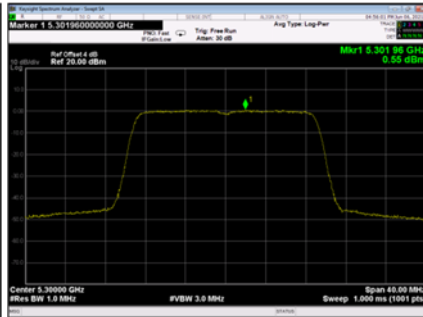
UNII-2A_TX AC (VHT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	-1.04	0.00	-1.04	11.00	PASS
60	5300	0.55	0.00	0.55	11.00	PASS
64	5320	0.88	0.00	0.88	11.00	PASS

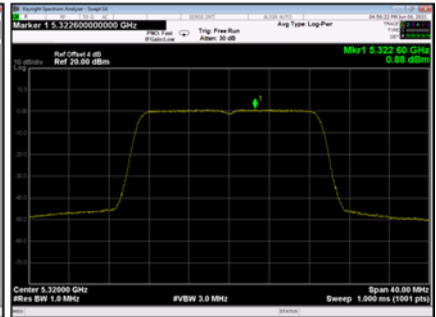
CH52



CH60



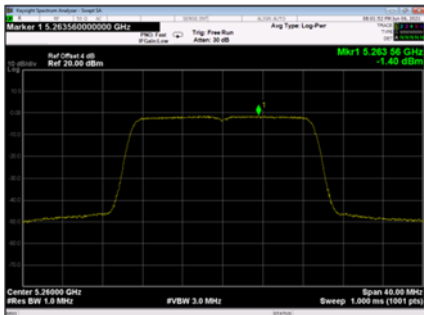
CH64



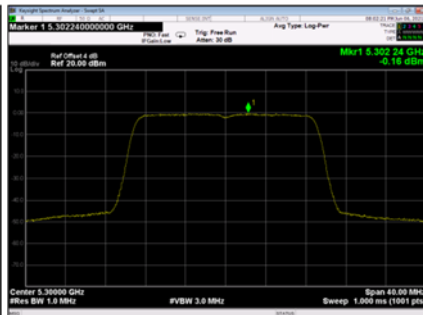
UNII-2A_TX AC (VHT20) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	-1.40	0.00	-1.40	11.00	PASS
60	5300	-0.16	0.00	-0.16	11.00	PASS
64	5320	-0.09	0.00	-0.09	11.00	PASS

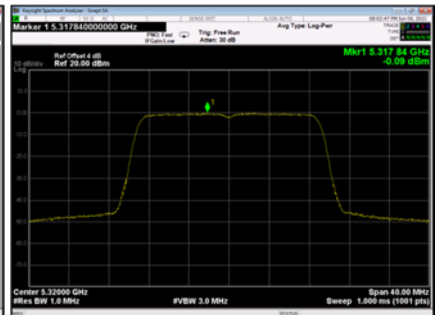
CH52



CH60



CH64



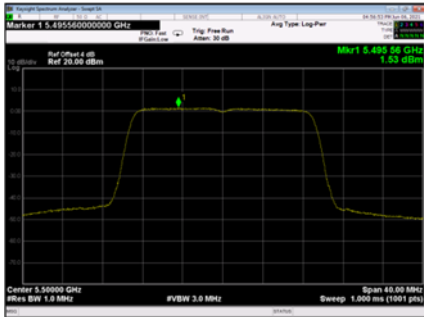
UNII-2A_TX AC (VHT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	1.79	11.00	PASS
60	5300	3.22	11.00	PASS
64	5320	3.43	11.00	PASS

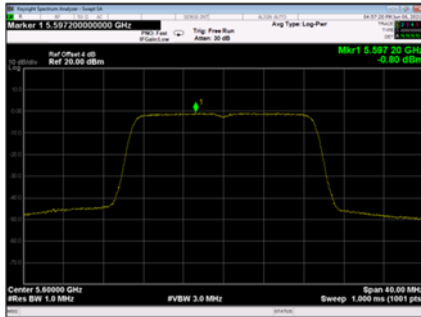
UNII-2C_TX AC (VHT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	1.53	0.00	1.53	11.00	PASS
120	5600	-0.80	0.00	-0.80	11.00	PASS
140	5700	-1.84	0.00	-1.84	11.00	PASS

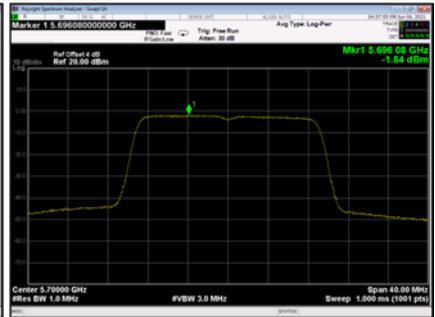
CH100



CH120



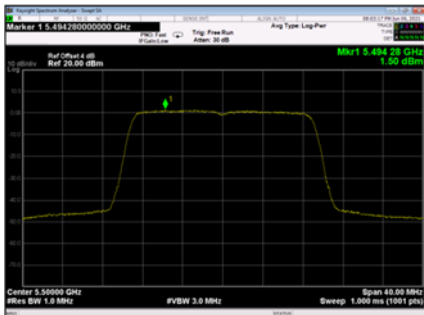
CH140



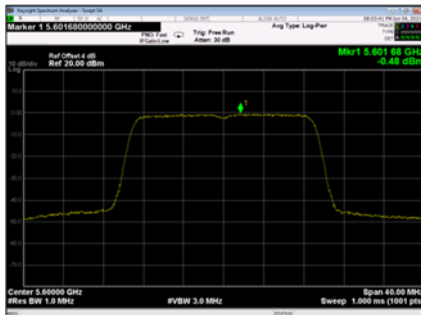
UNII-2C_TX AC (VHT20) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	1.50	0.00	1.50	11.00	PASS
120	5600	-0.48	0.00	-0.48	11.00	PASS
140	5700	-2.22	0.00	-2.22	11.00	PASS

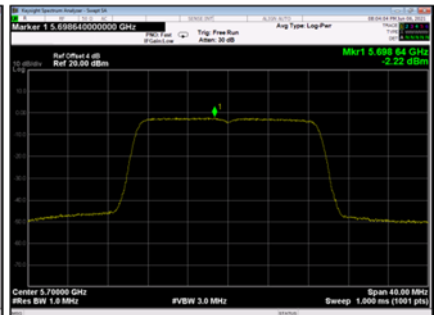
CH100



CH120



CH140



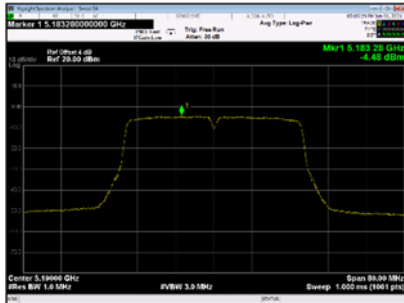
UNII-2C_TX AC (VHT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	4.53	11.00	PASS
120	5600	2.37	11.00	PASS
140	5700	0.98	11.00	PASS

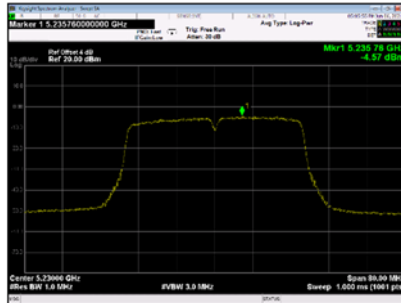
UNII-1_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	-4.48	0.00	-4.48	11.00	PASS
46	5230	-4.57	0.00	-4.57	11.00	PASS

CH38



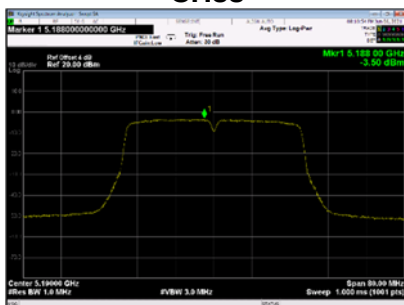
CH46



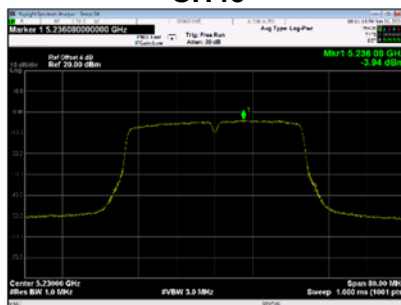
UNII-1_TX AC (VHT40) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	-3.50	0.00	-3.50	11.00	PASS
46	5230	-3.94	0.00	-3.94	11.00	PASS

CH38



CH46



UNII-1_TX AC (VHT40) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	-0.952	11.00	PASS
46	5230	-1.233	11.00	PASS

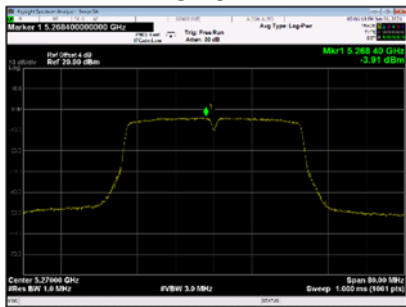
UNII-1_TX AC (VHT40) Mode_Total For IC

Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	5.058	10.00	PASS
46	5230	4.777	10.00	PASS

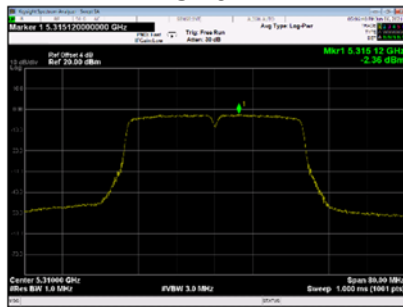
UNII-2A_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270	-3.91	0.00	-3.91	11.00	PASS
62	5310	-2.36	0.00	-2.36	11.00	PASS

CH54



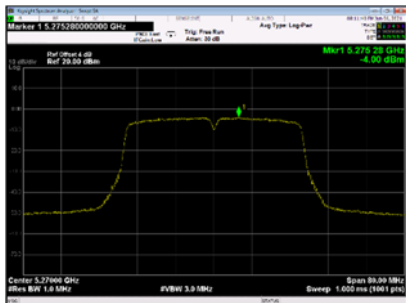
CH62



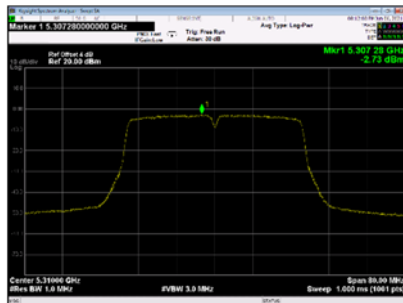
UNII-2A_TX AC (VHT40) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270	-4.00	0.00	-4.00	11.00	PASS
62	5310	-2.73	0.00	-2.73	11.00	PASS

CH54



CH62



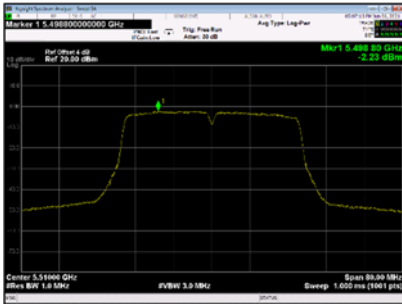
UNII-2A_TX AC (VHT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270	-0.944	11.00	PASS
62	5310	0.469	11.00	PASS

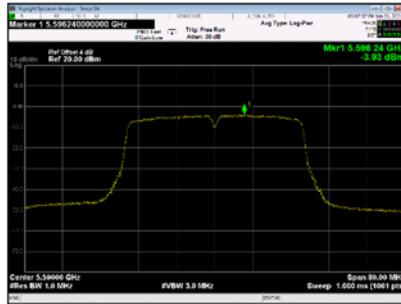
UNII-2C_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
102	5510	-2.23	0.00	-2.23	11.00	PASS
118	5590	-3.93	0.00	-3.93	11.00	PASS
134	5670	-2.86	0.00	-2.86	11.00	PASS

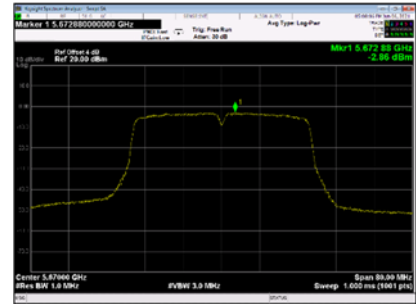
CH102



CH118



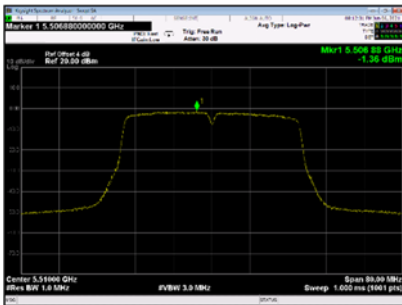
CH134



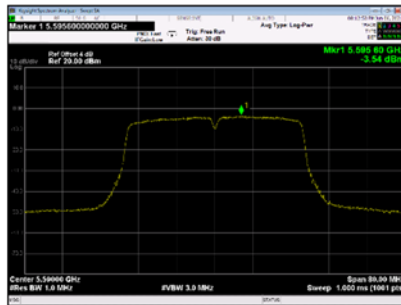
UNII-2C_TX AC (VHT40) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
102	5510	-1.36	0.00	-1.36	11.00	PASS
118	5590	-3.54	0.00	-3.54	11.00	PASS
134	5670	-2.96	0.00	-2.96	11.00	PASS

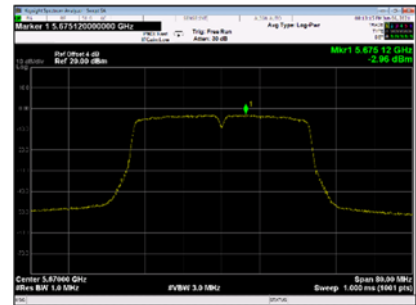
CH102



CH118



CH134



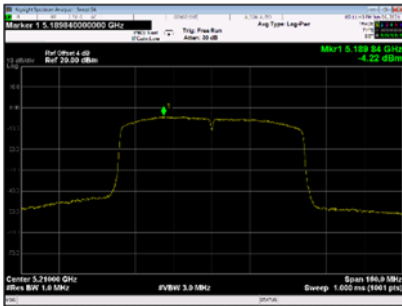
UNII-2C_TX AC (VHT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
102	5510	1.237	11.00	PASS
118	5590	-0.720	11.00	PASS
134	5670	0.101	11.00	PASS

UNII-1_TX AC (VHT80) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	-4.22	0.00	-4.22	11.00	PASS

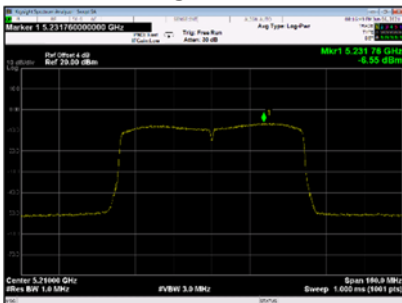
CH42



UNII-1_TX AC (VHT80) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	-6.55	0.00	-6.55	11.00	PASS

CH42



UNII-1_TX AC (VHT80) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	-2.220	11.00	PASS

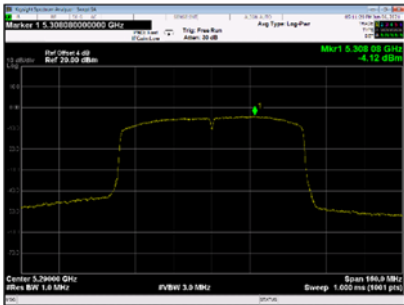
UNII-1_TX AC (VHT80) Mode_Total For IC

Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	3.79	10.00	PASS

UNII-2A_TX AC (VHT80) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290	-4.12	0.00	-4.12	11.00	PASS

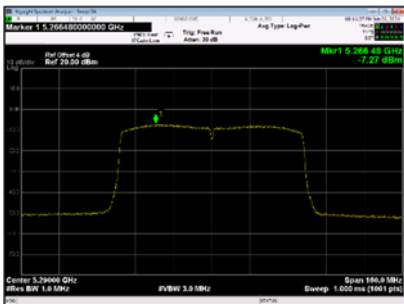
CH58



UNII-2A_TX AC (VHT80) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290	-7.27	0.00	-7.27	11.00	PASS

CH58



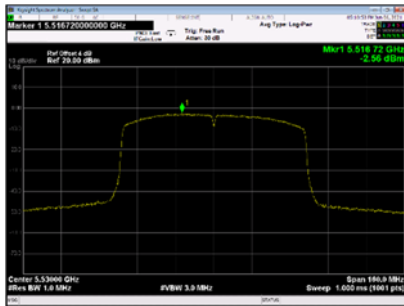
UNII-2A_TX AC (VHT80) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290	-2.405	11.00	PASS

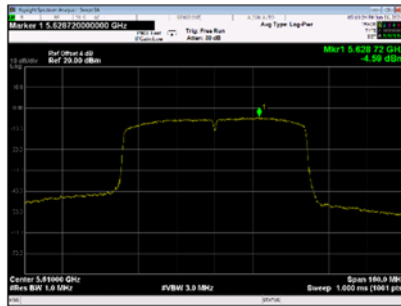
UNII-2C_TX AC (VHT80) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
106	5530	-2.56	0.00	-2.56	11.00	PASS
122	5610	-4.59	0.00	-4.59	11.00	PASS

CH106



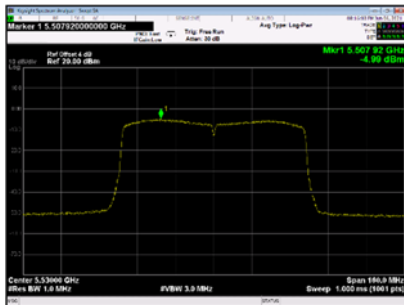
CH122



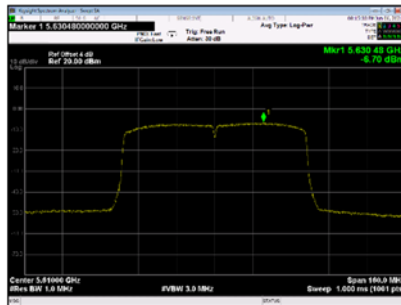
UNII-2C_TX AC (VHT80) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
106	5530	-4.99	0.00	-4.99	11.00	PASS
122	5610	-6.70	0.00	-6.70	11.00	PASS

CH106



CH122



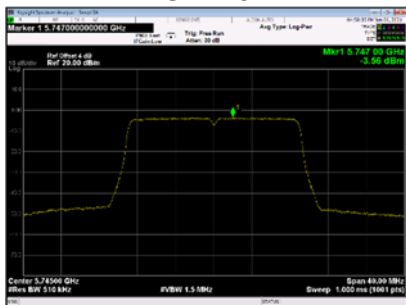
UNII-2C_TX AC (VHT80) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
106	5530	-0.597	11.00	PASS
122	5610	-2.508	11.00	PASS

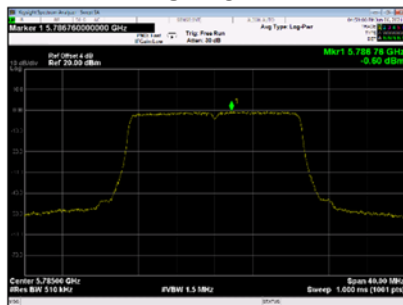
UNII-3_TX AC (VHT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	-3.56	0.00	-3.56	30.00	PASS
157	5785	-0.60	0.00	-0.60	30.00	PASS
165	5825	-0.87	0.00	-0.87	30.00	PASS

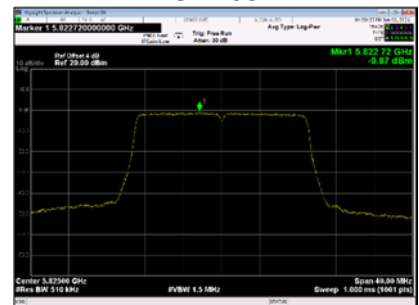
CH149



CH157



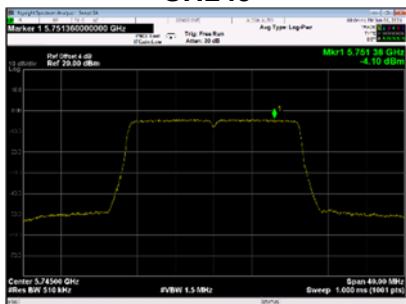
CH165



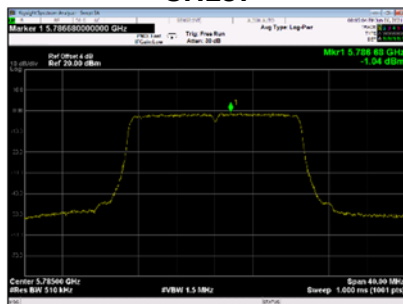
UNII-3_TX AC (VHT20) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	-4.10	0.00	-4.10	30.00	PASS
157	5785	-1.04	0.00	-1.04	30.00	PASS
165	5825	-1.52	0.00	-1.52	30.00	PASS

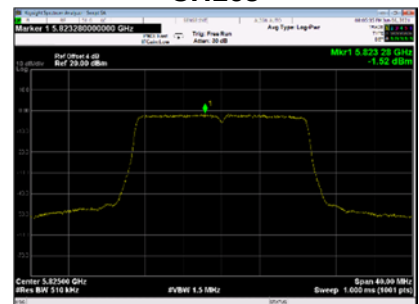
CH149



CH157



CH165



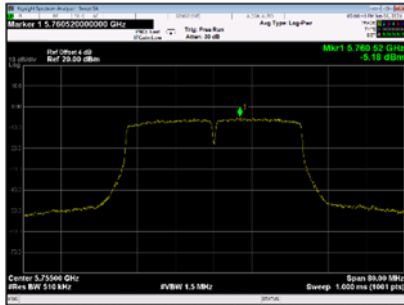
UNII-3_TX AC (VHT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	-0.811	30.00	PASS
157	5785	2.196	30.00	PASS
165	5825	1.827	30.00	PASS

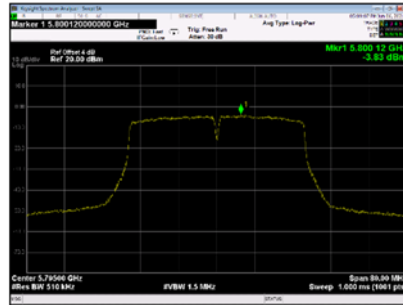
UNII-3_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-5.18	0.00	-5.18	30.00	PASS
159	5795	-3.83	0.00	-3.83	30.00	PASS

CH151



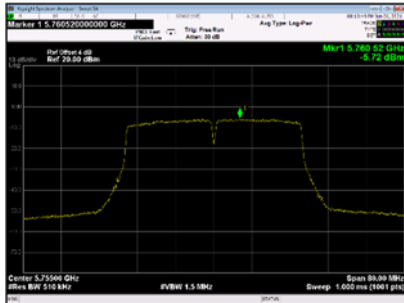
CH159



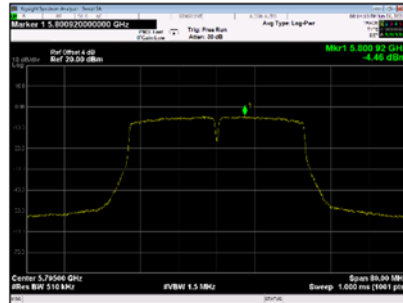
UNII-3_TX AC (VHT40) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-5.72	0.00	-5.72	30.00	PASS
159	5795	-4.46	0.00	-4.46	30.00	PASS

CH151



CH159



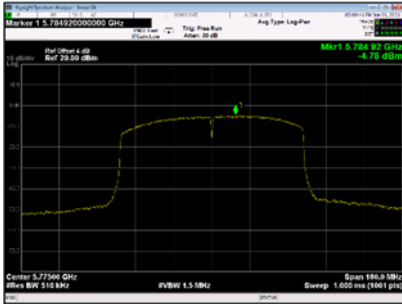
UNII-3_TX AC (VHT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-2.431	30.00	PASS
159	5795	-1.123	30.00	PASS

UNII-3_TX AC (VHT80) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	-4.78	0.00	-4.78	30.00	PASS

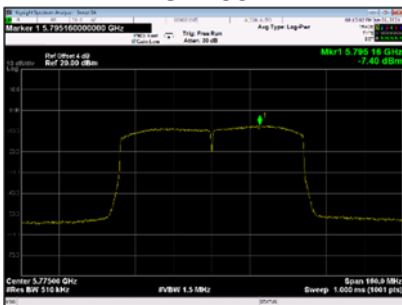
CH155



UNII-3_TX AC (VHT80) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	-7.40	0.00	-7.40	30.00	PASS

CH155



UNII-3_TX AC (VHT80) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	-2.885	30.00	PASS

9.FREQUENCY STABILITY MEASUREMENT

9.1LIMIT

FCC Part15, Subpart E (15.407)&RSS-GEN			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(g) RSS-GEN 6.11	Frequency Stability	Specified in the user's manual	5150-5250
			5725-5850

9.2TEST PROCEDURE AND SETTING

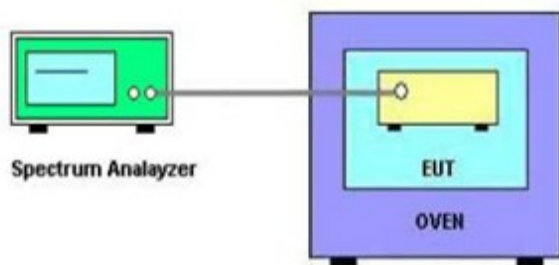
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulationemissionsbandwidth
RBW	10 kHz
VBW	10kHz
Sweep Time	Auto

9.3MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/23
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A
4	Temperature conditioning	Guan Jian.HTH1000	-20-130°C	GJ1000-10D001	N/A
5	DC Power Supply	G.KE	IPR-10010D	010931954	N/A

9.4TEST SETUP



9.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

	Temperature vs. Frequency Stability-UNII-1	
Voltage	Temperature	Measurement Frequency (MHz)
3.3V	(°C)	5180
	-20	5180.0023
	25	5180.0025
	50	5180.0019
2.2V	25	5180.0022
Max. Deviation (MHz)		0.0025
Max. Deviation (ppm)		0.48

	Temperature vs. Frequency Stability-UNII-2A	
Voltage	Temperature	Measurement Frequency (MHz)
3.3V	(°C)	5260
	-20	5260.0019
	25	5260.0016
	50	5260.0020
2.2V	25	5260.0017
Max. Deviation (MHz)		0.0020
Max. Deviation (ppm)		0.38

Temperature vs. Frequency Stability-UNII-2C		
Voltage	Temperature	Measurement Frequency (MHz)
3.3V	(°C)	5500
	-20	5500.0019
	25	5500.0021
	50	5500.0017
2.2V	25	5500.0017
Max. Deviation (MHz)		0.38
Max. Deviation (ppm)		

Temperature vs. Frequency Stability-UNII-3		
Voltage	Temperature	Measurement Frequency (MHz)
3.3V	(°C)	5745
	-20	5745.0016
	25	5745.0013
	50	5745.0015
2.2V	25	5745.0011
Max. Deviation (MHz)		0.0016
Max. Deviation (ppm)		0.28

Note: 2.2V is the end point voltage, and products below 2.2V will cease working.

END OF TEST REPORT