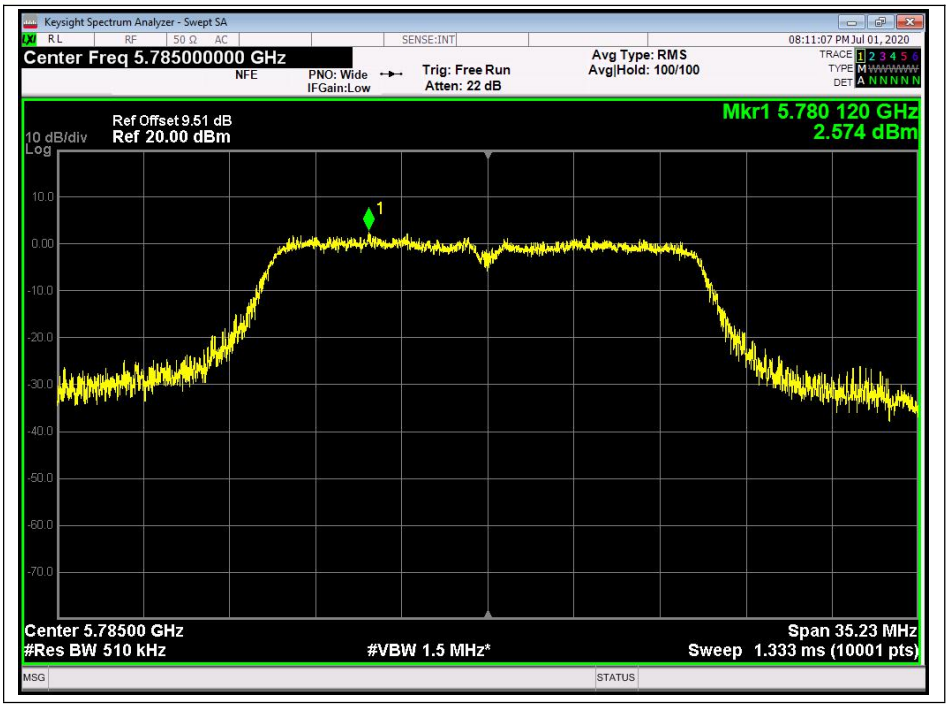
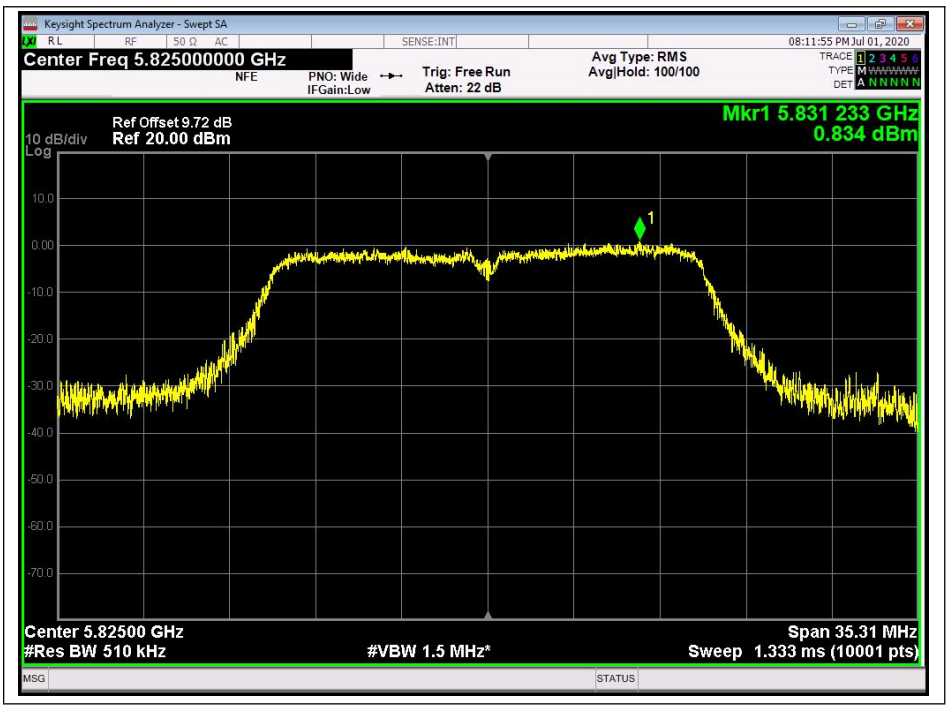


(Channel 157, 5785MHz, 802.11n)



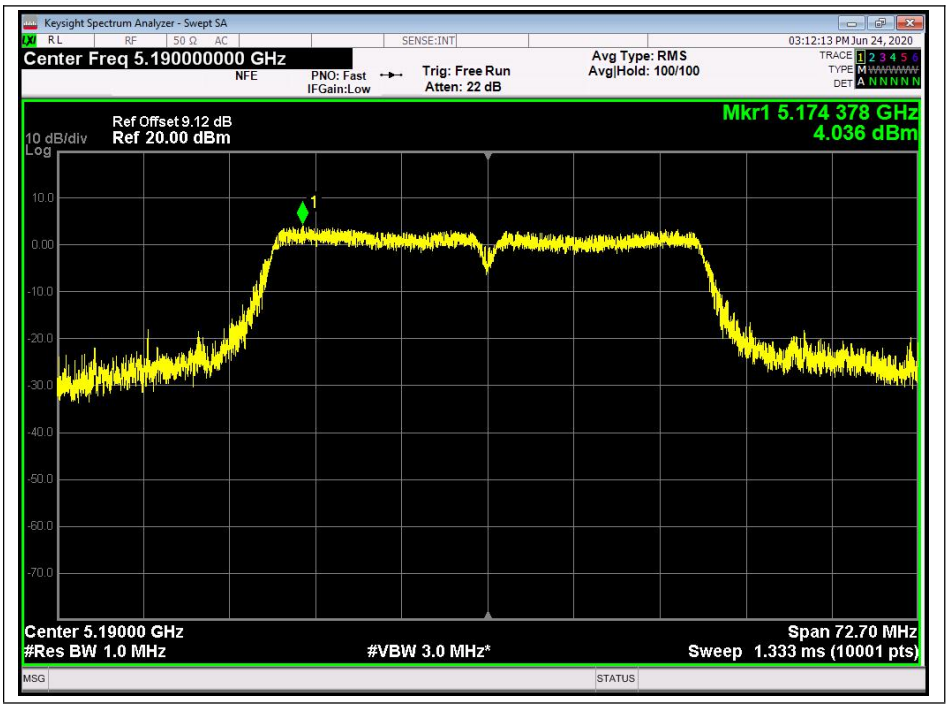
(Channel 165, 5825MHz, 802.11n)

802.11n (HT40) Test mode

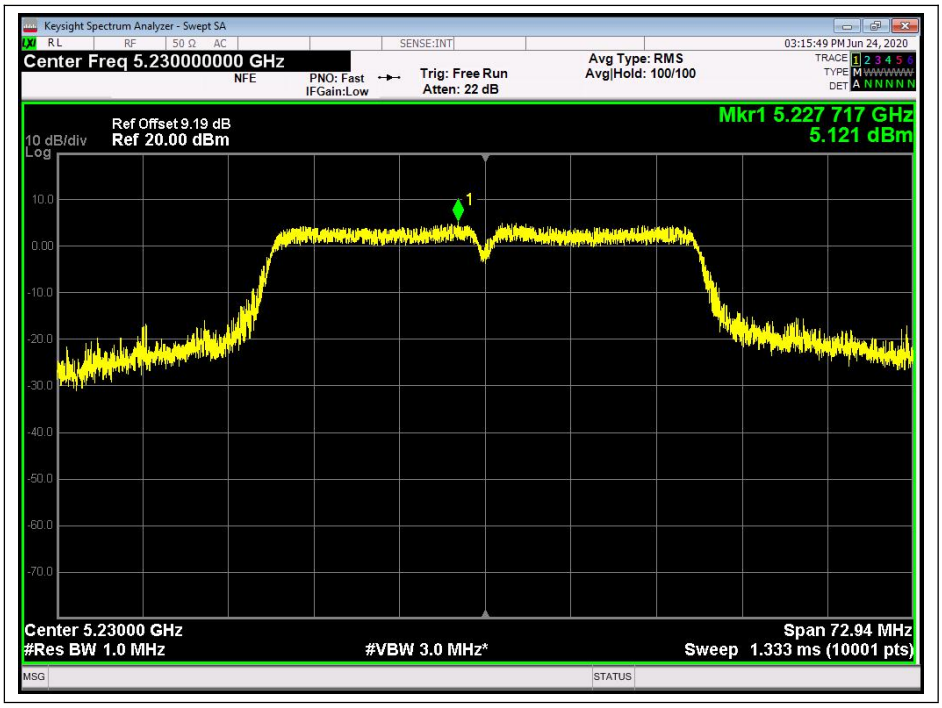
A. Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
38	5190	4.04	11	PASS
46	5230	5.12		
Channel	Frequency (MHz)	Measured PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
151	5755	-0.30	30	PASS
159	5795	-0.93		

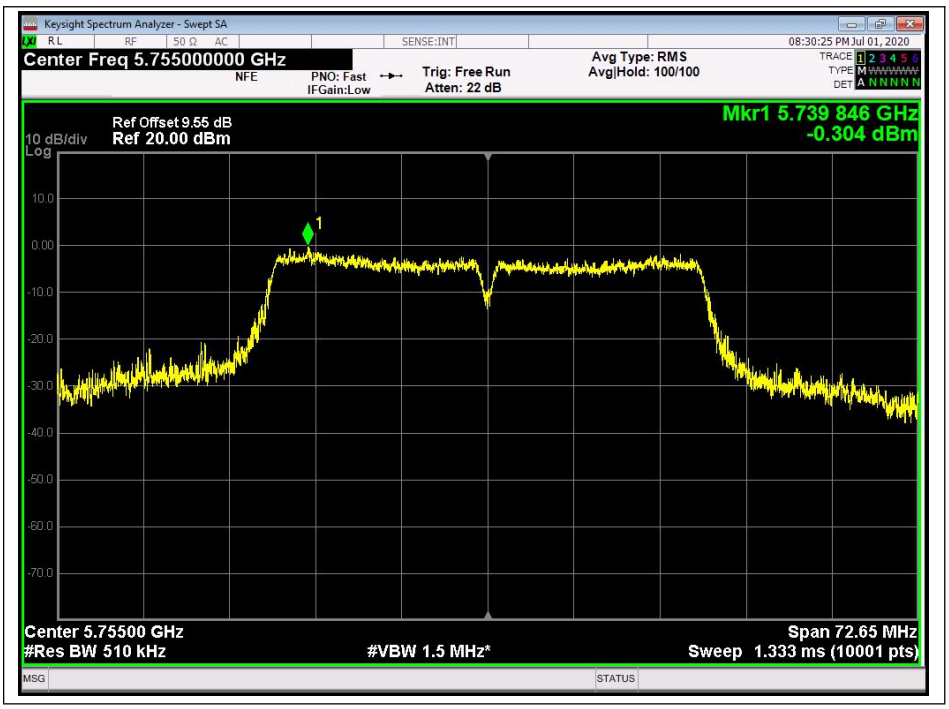
B. Test Plots



(Channel 38, 5190MHz, 802.11n (HT40))



(Channel 46, 5230 MHz, 802.11n (HT40))



(Channel 151, 5755 MHz, 802.11n (HT40))

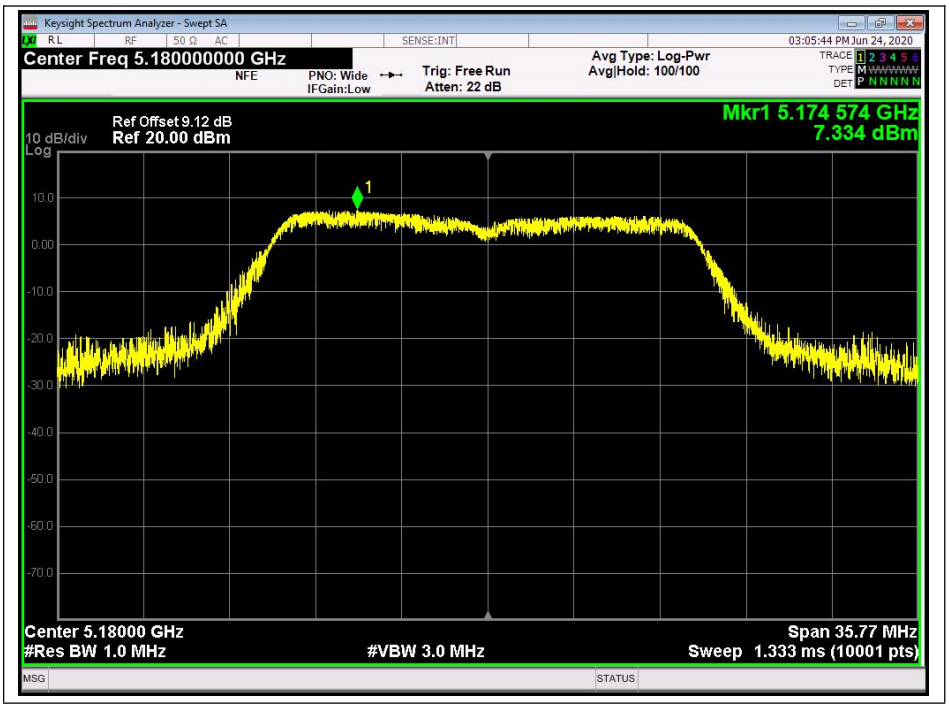
(Channel 159, 5795MHz, 802.11n (HT40))

802.11ac20 Test mode

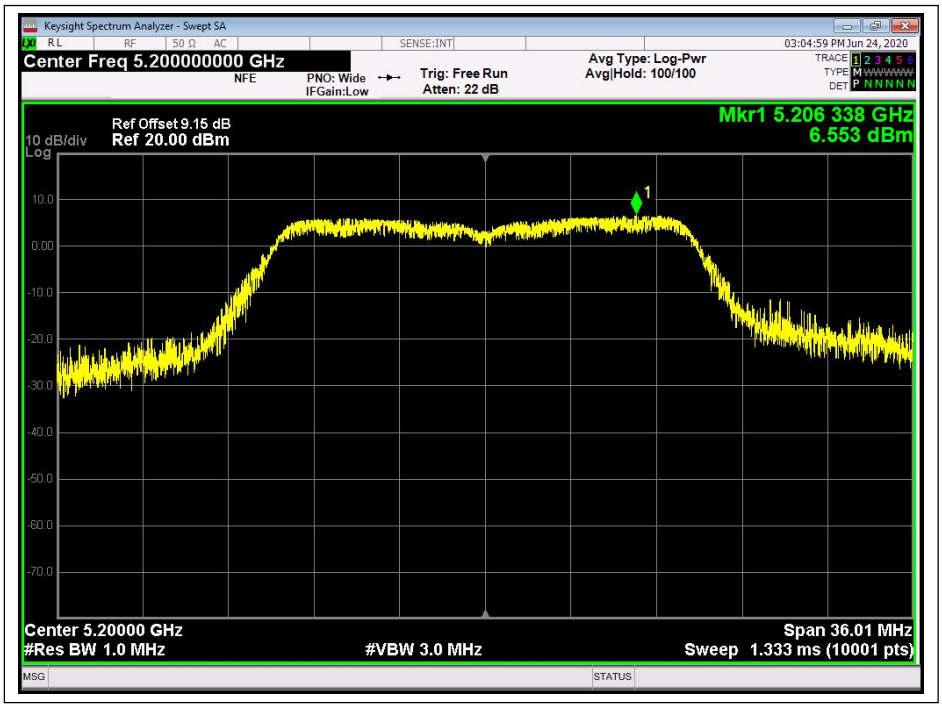
E. Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
36	5180	7.33	11	PASS
40	5200	6.55		
48	5240	7.82		
Channel	Frequency (MHz)	Measured PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
149	5745	2.61	30	PASS
157	5785	2.67		
165	5825	1.04		

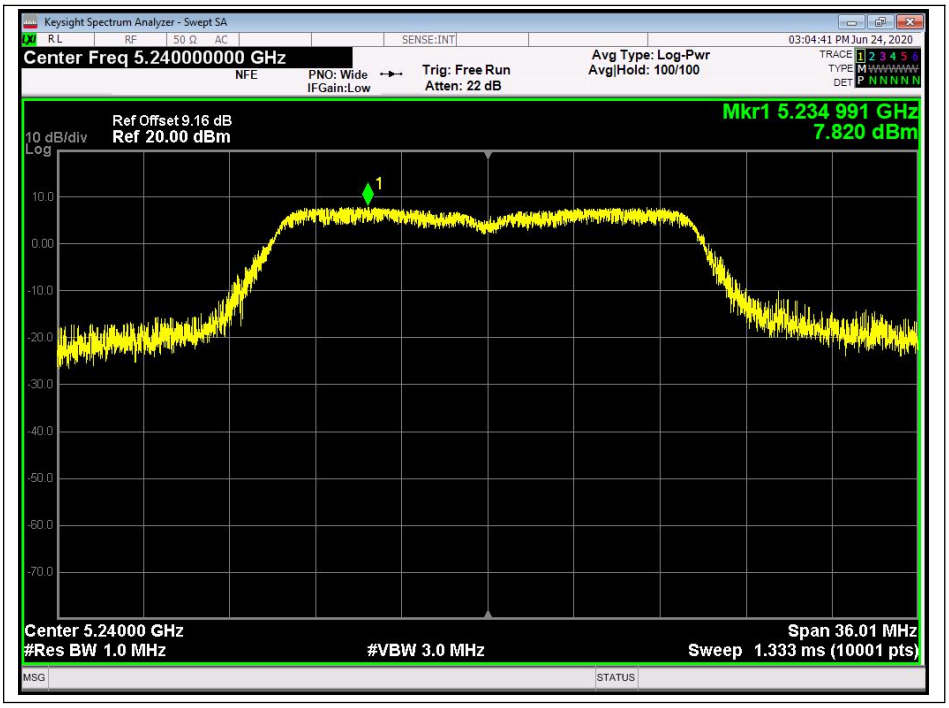
F. Test Plots



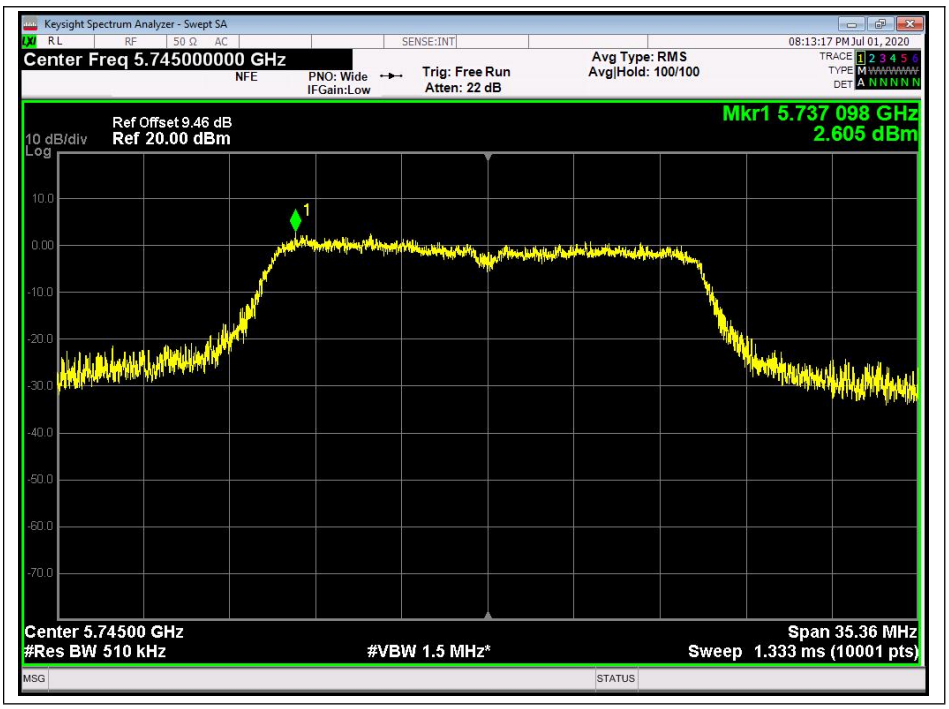
(Channel 36, 5180MHz, 802.11ac)



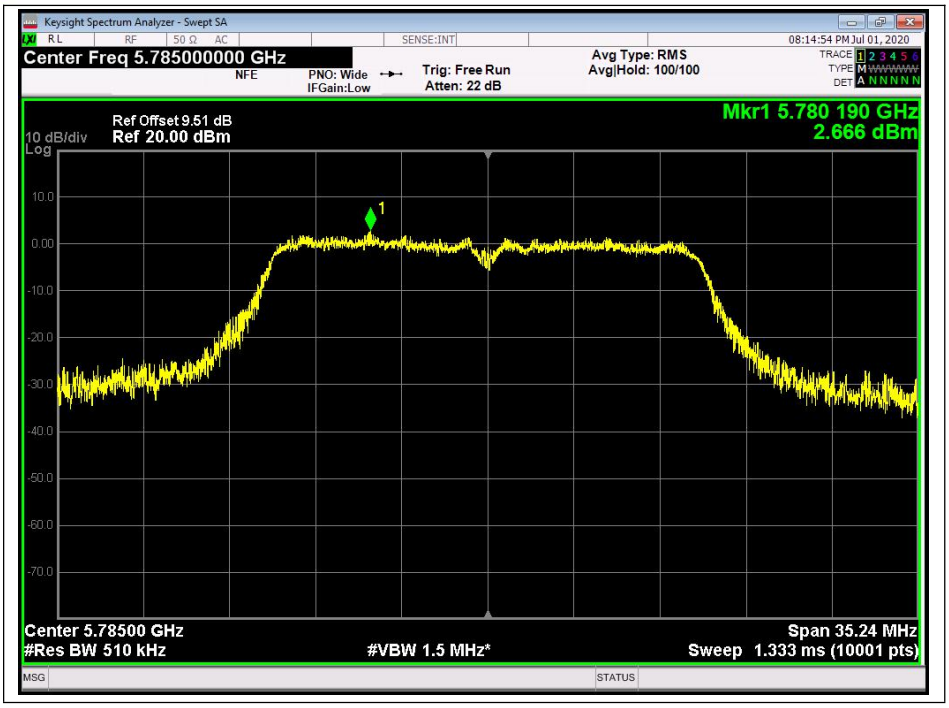
(Channel 40, 5200 MHz, 802.11ac)



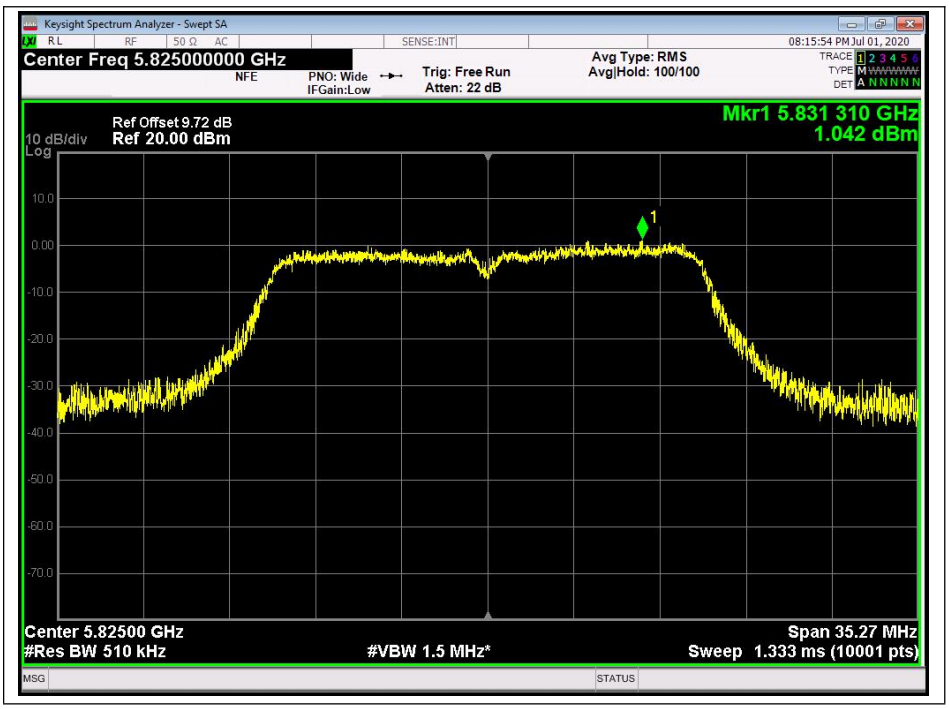
(Channel 48, 5240MHz, 802.11ac)



(Channel 149, 5745MHz, 802.11ac)



(Channel 157, 5785MHz, 802.11ac)



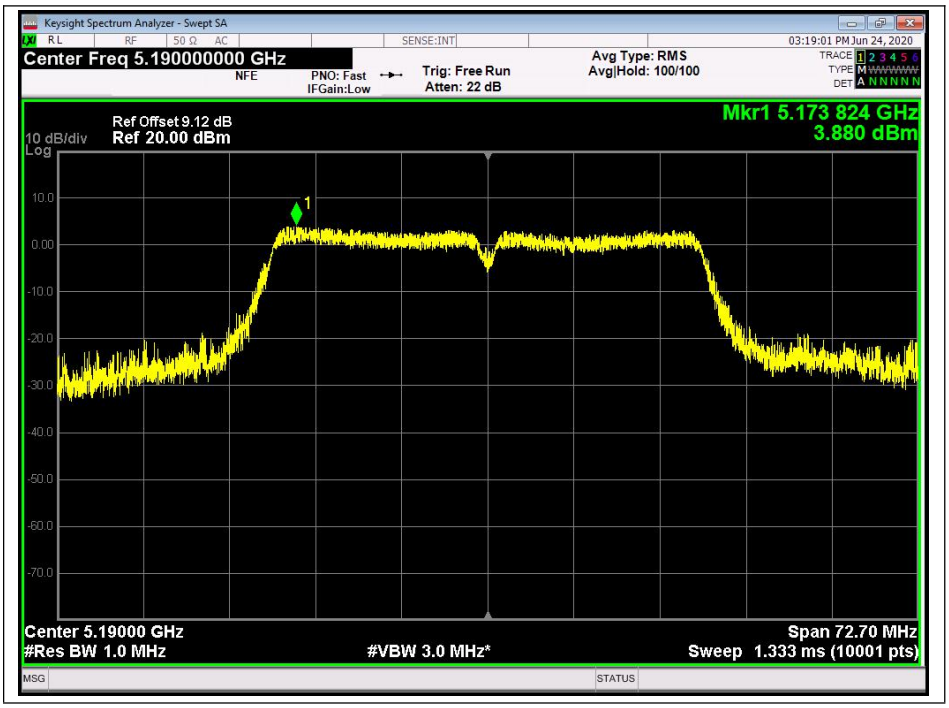
(Channel 165, 5825MHz, 802.11ac)

802.11ac (HT40) Test mode

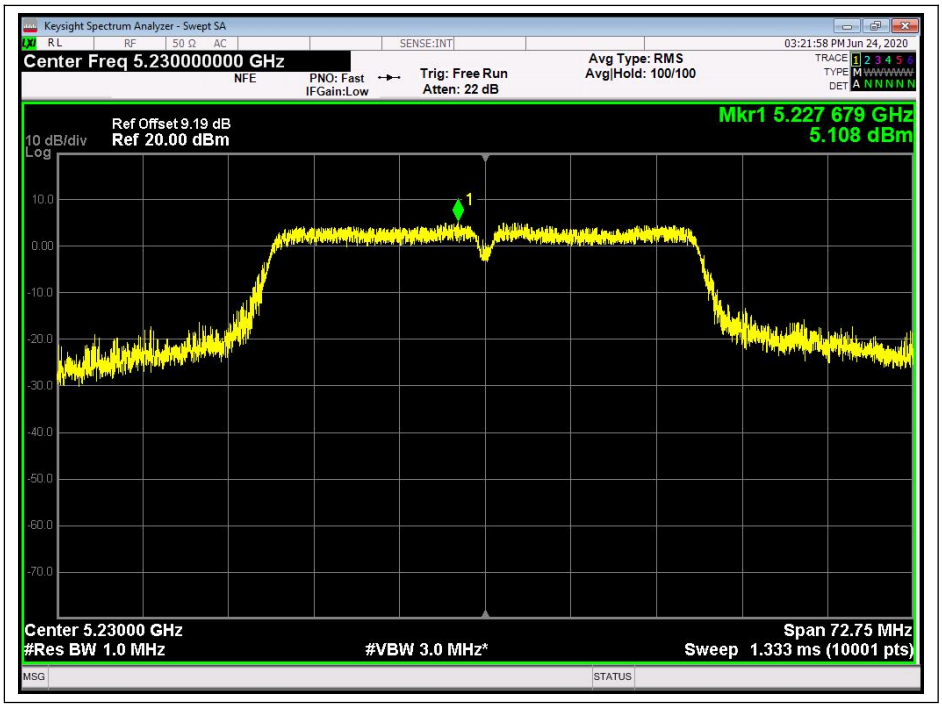
C. Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
38	5190	3.88	11	PASS
46	5230	5.11		
Channel	Frequency (MHz)	Measured PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
151	5755	-0.82	30	PASS
159	5795	-0.60		

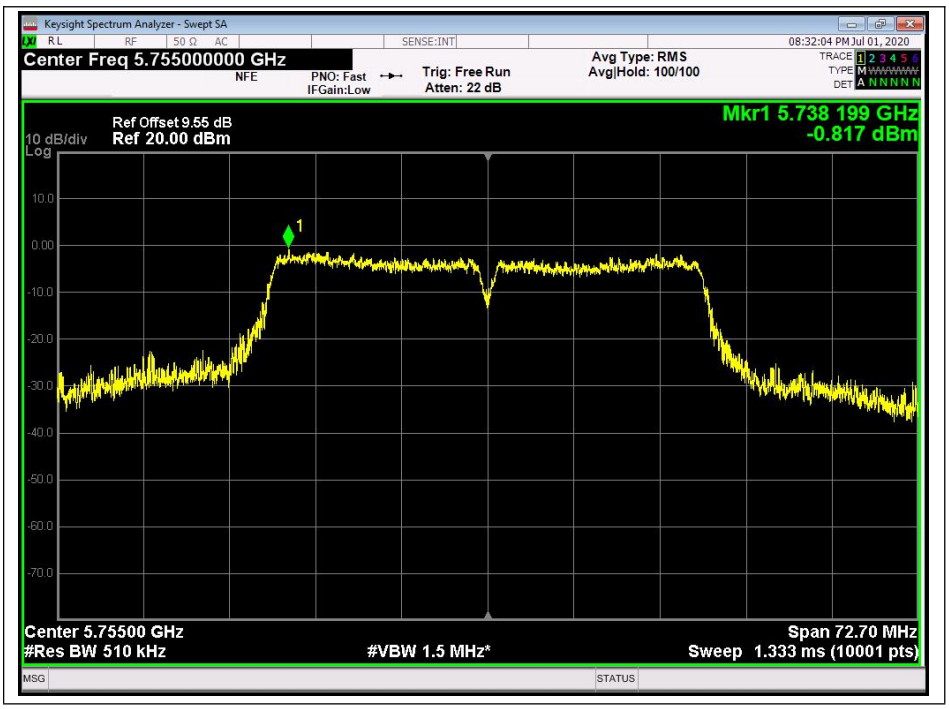
D. Test Plots



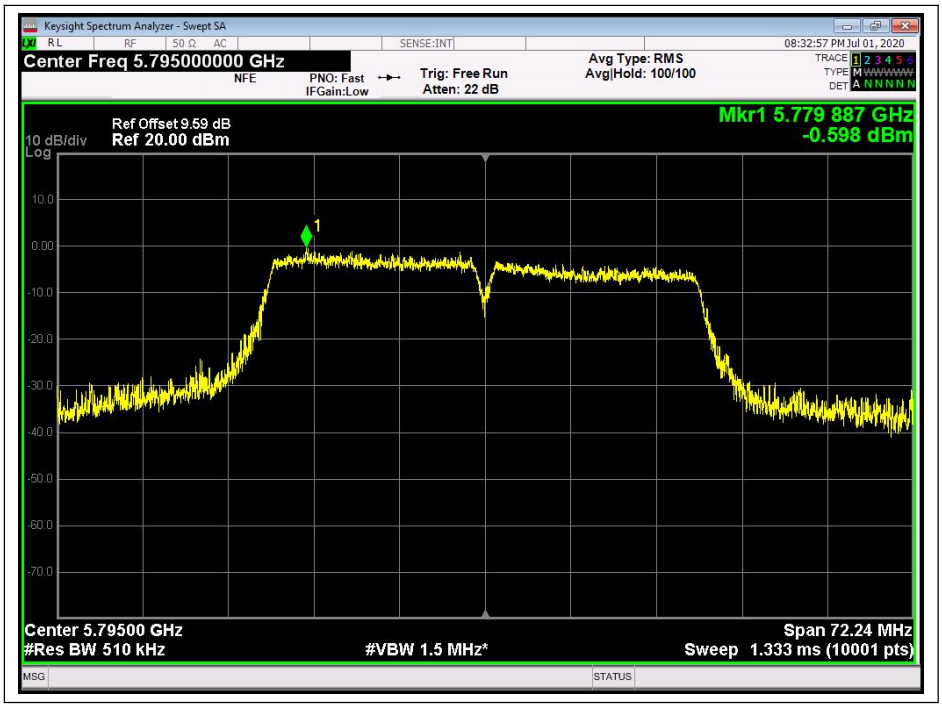
(Channel 38, 5190MHz, 802.11ac (HT40))



(Channel 46, 5230 MHz, 802.11ac (HT40))



(Channel 151, 5755 MHz, 802.11ac (HT40))



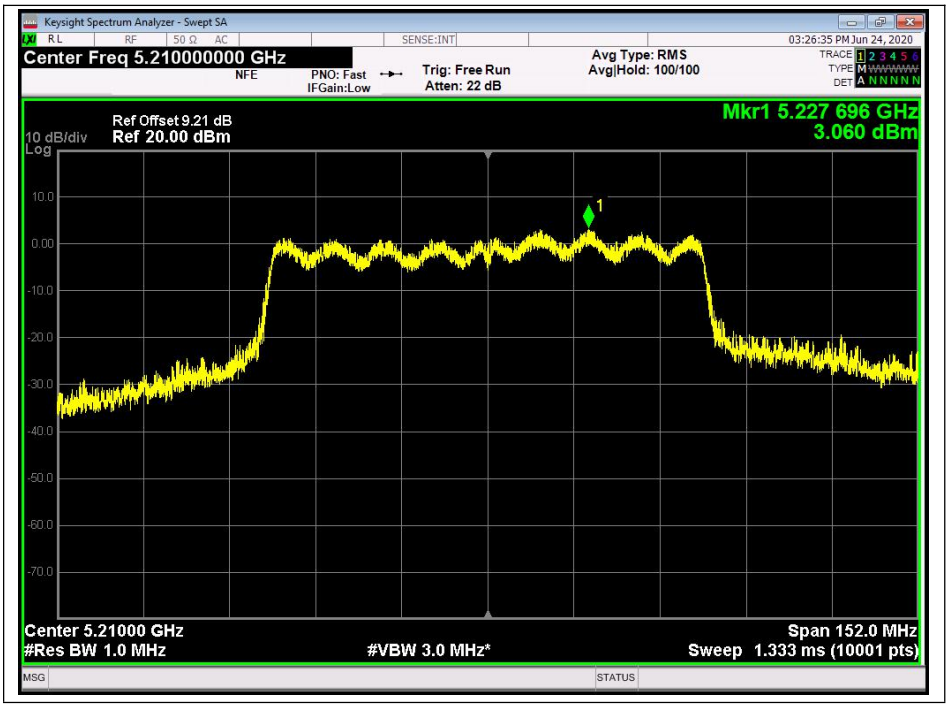
(Channel 159, 5795MHz, 802.11ac (HT40))

802.11ac (HT80) Test mode

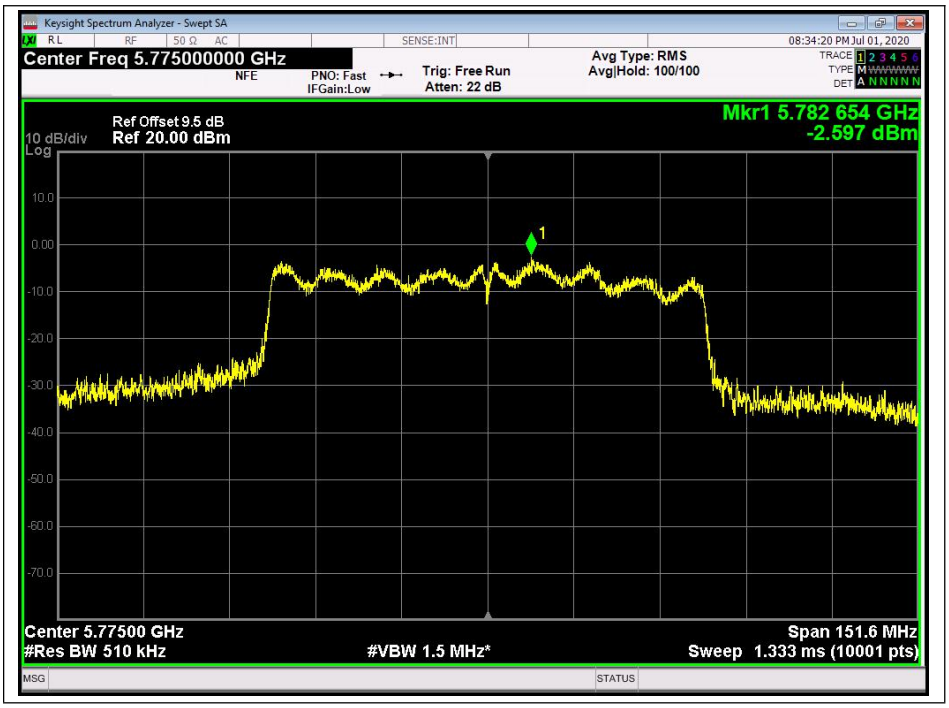
E. Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
42	5210	3.06	11	PASS
Channel	Frequency (MHz)	Measured PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
155	5775	-2.60	30	PASS

F. Test Plots



(Channel 42, 5210MHz, 802.11ac (HT80))



(Channel 155, 5775MHz, 802.11ac (HT80))

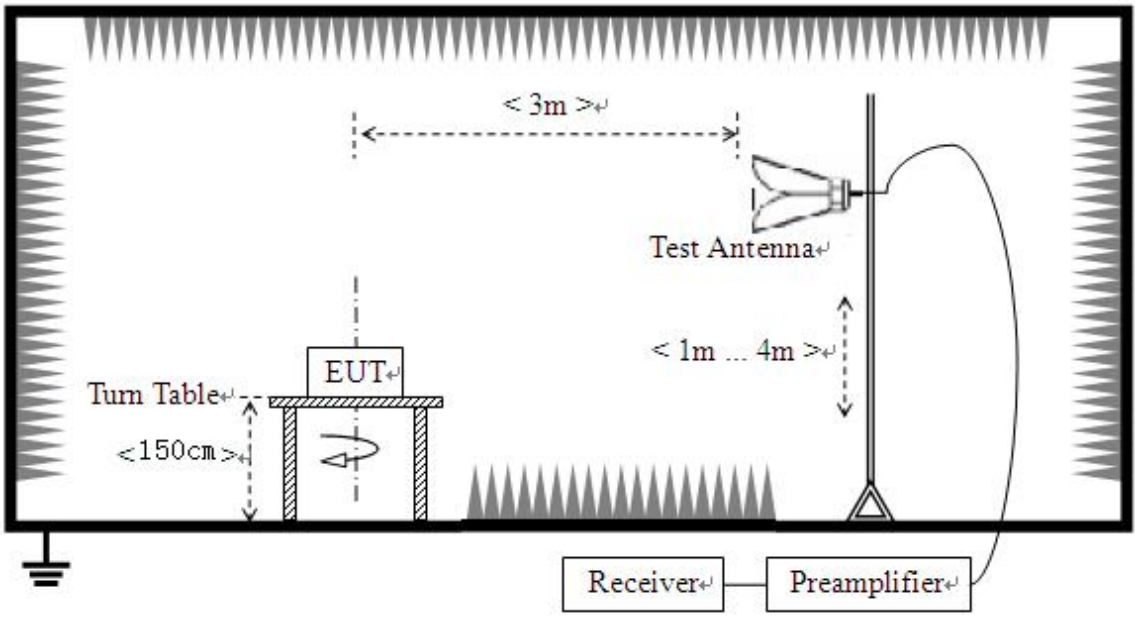
2.5. Restricted Frequency Bands

2.5.1. Requirement

According to FCC section 15.407(b)(7), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

2.5.2. Test Description

A. Test Setup



The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.
KDB 789033 Section H) 3)5)6(d)) was used in order to prove compliance
For the Test Antenna:
Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.
For Radiated emission above 30MHz
a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

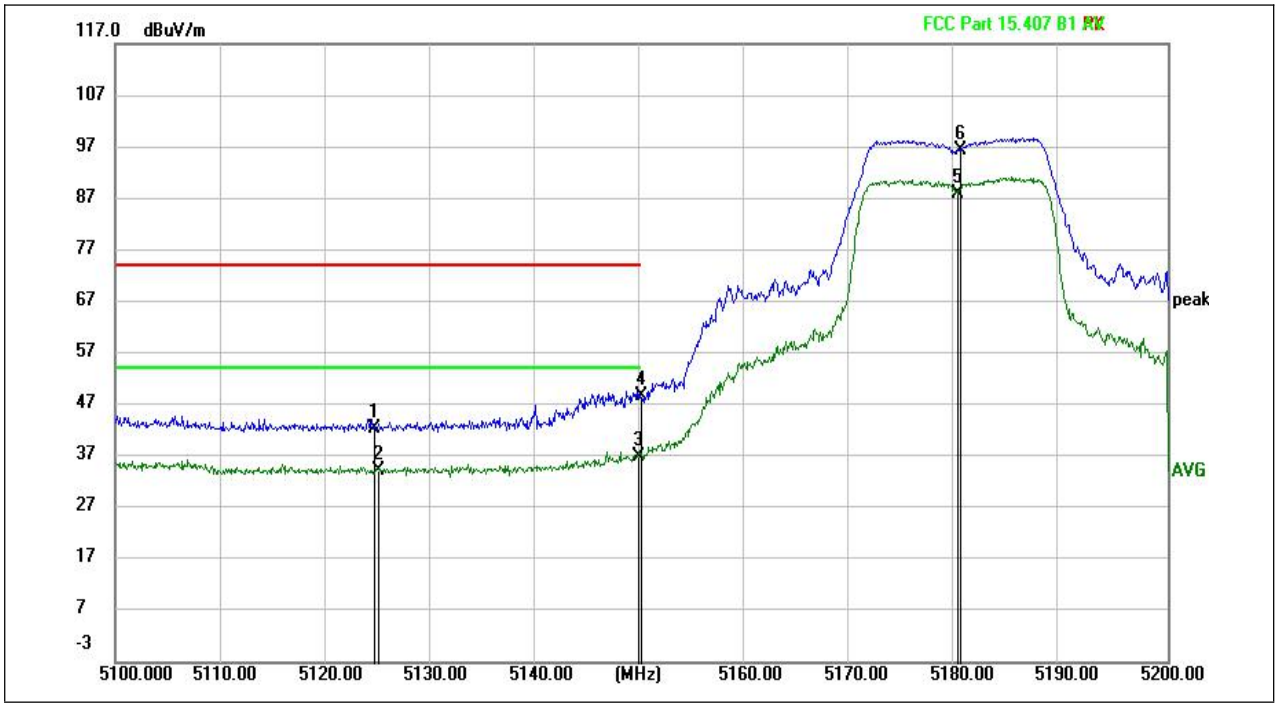
f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasipeak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

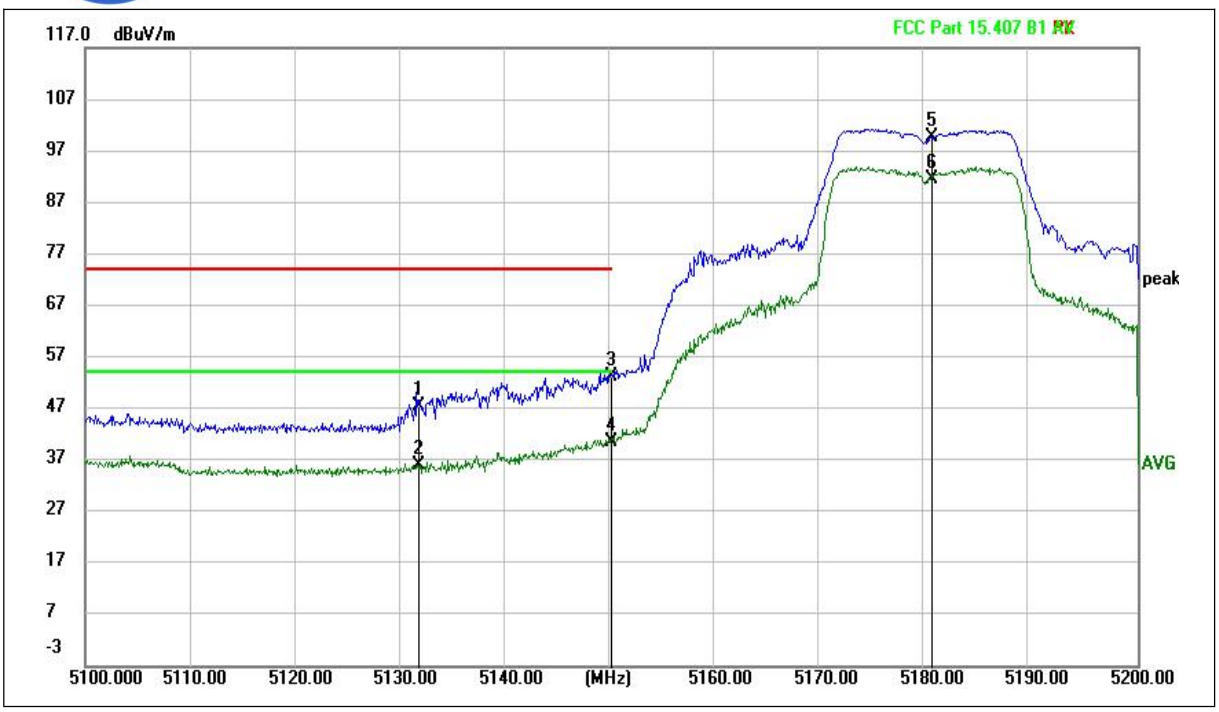
2.5.3. Test Result

802.11ac20 Test mode



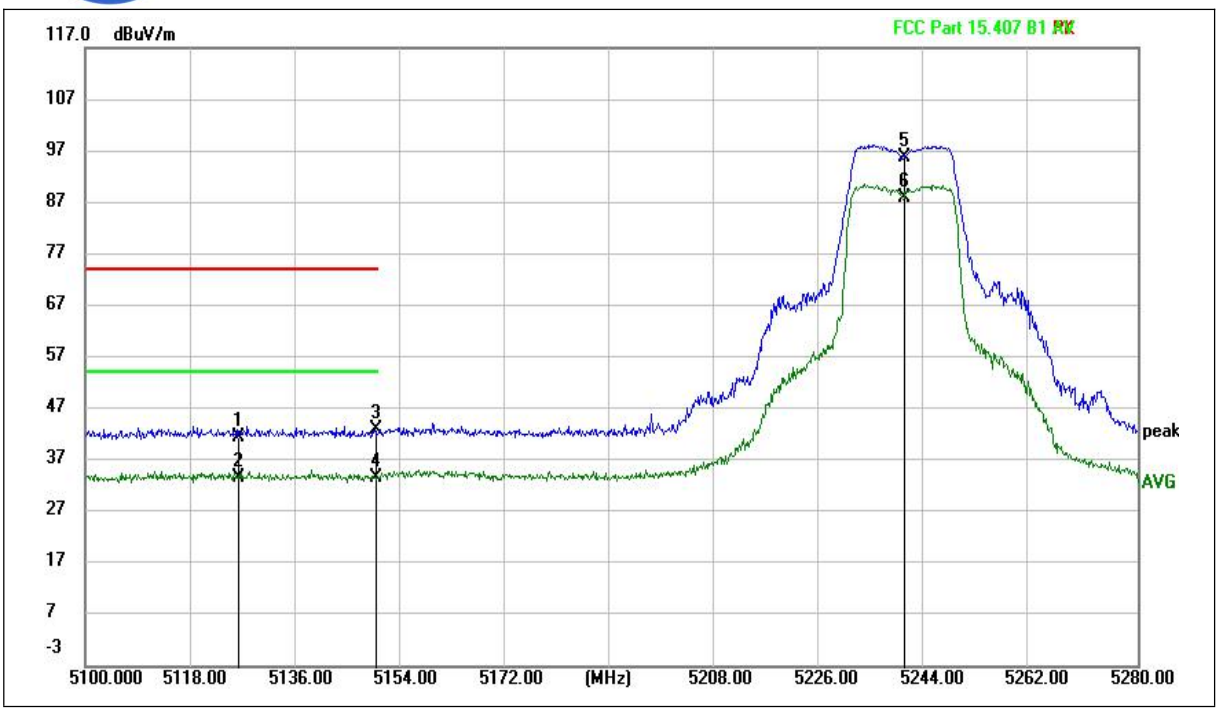
(802.11ac _5180MHz, Antenna Horizontal)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
5124.615	45.45	-3.11	42.34	74.00	-31.66	peak	H
5124.905	37.36	-3.11	34.25	54.00	-19.75	AVG	H
5149.645	40.06	-3.24	36.82	54.00	-17.18	AVG	H
5149.990	52.08	-3.24	48.84	74.00	-25.16	peak	H
5180.075	91.03	-3.04	87.99	N/A	N/A	AVG	H
5180.300	99.44	-3.04	96.40	N/A	N/A	peak	H



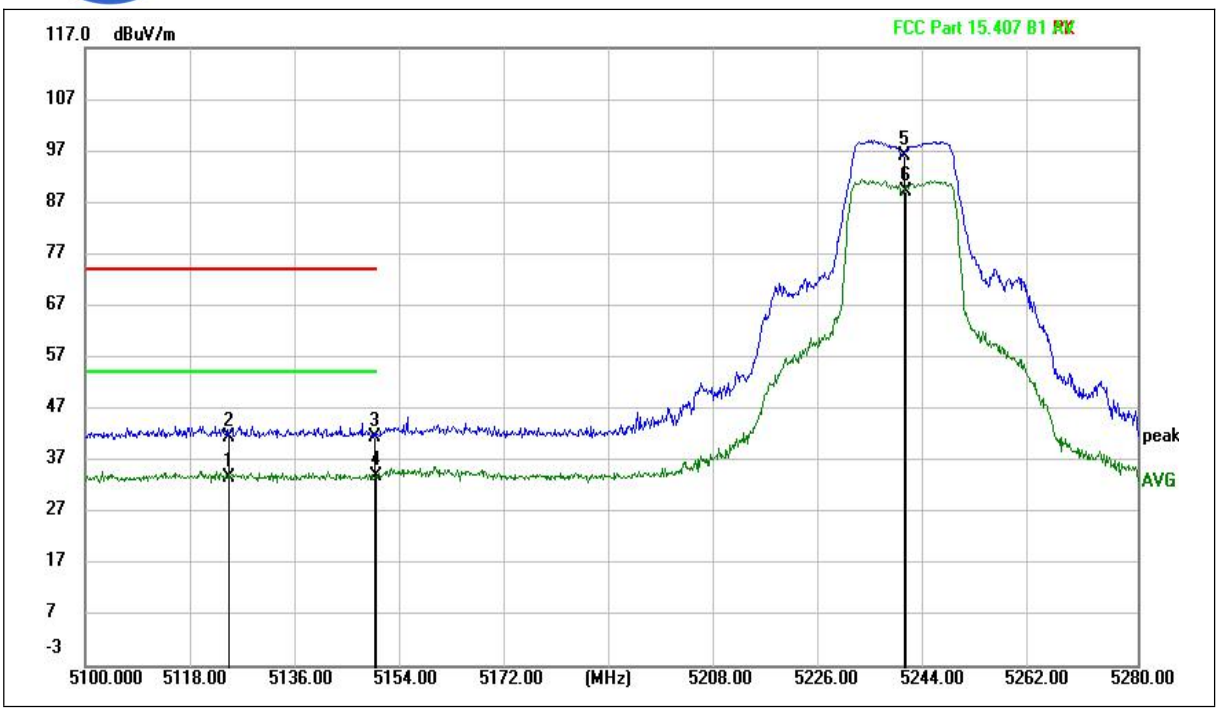
(802.11ac _5180MHz, Antenna Vertical)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
5131.630	50.68	-3.15	47.53	74.00	-26.47	peak	V
5131.630	39.27	-3.15	36.12	54.00	-17.88	AVG	V
5149.985	56.34	-3.24	53.10	74.00	-20.90	peak	V
5149.985	43.78	-3.24	40.54	54.00	-13.46	AVG	V
5180.425	102.75	-3.04	99.71	N/A	N/A	peak	V
5180.425	94.65	-3.04	91.61	N/A	N/A	AVG	V



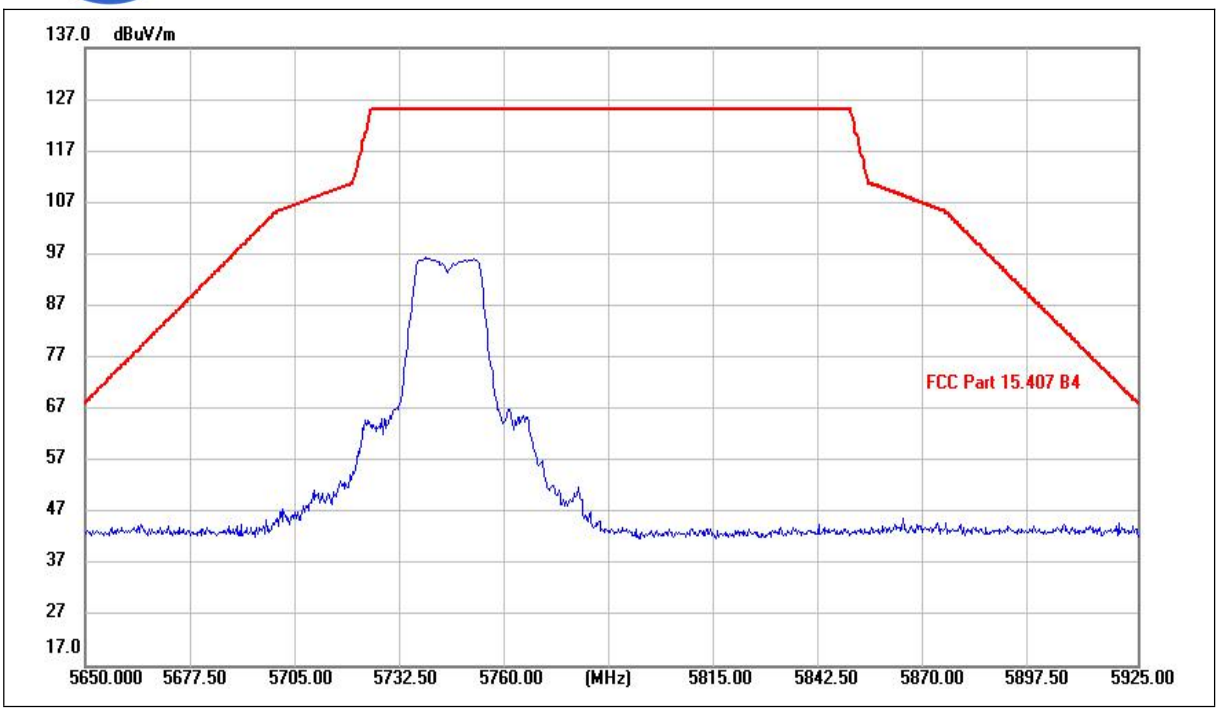
(802.11ac _5240MHz, Antenna Horizontal)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
5126.199	44.72	-3.13	41.59	74.00	-32.41	peak	H
5126.199	36.88	-3.13	33.75	54.00	-20.25	AVG	H
5149.707	46.09	-3.24	42.85	74.00	-31.15	peak	H
5149.707	37.02	-3.24	33.78	54.00	-20.22	AVG	H
5240.175	98.74	-3.05	95.69	N/A	N/A	peak	H
5240.175	91.05	-3.05	88.00	N/A	N/A	AVG	H

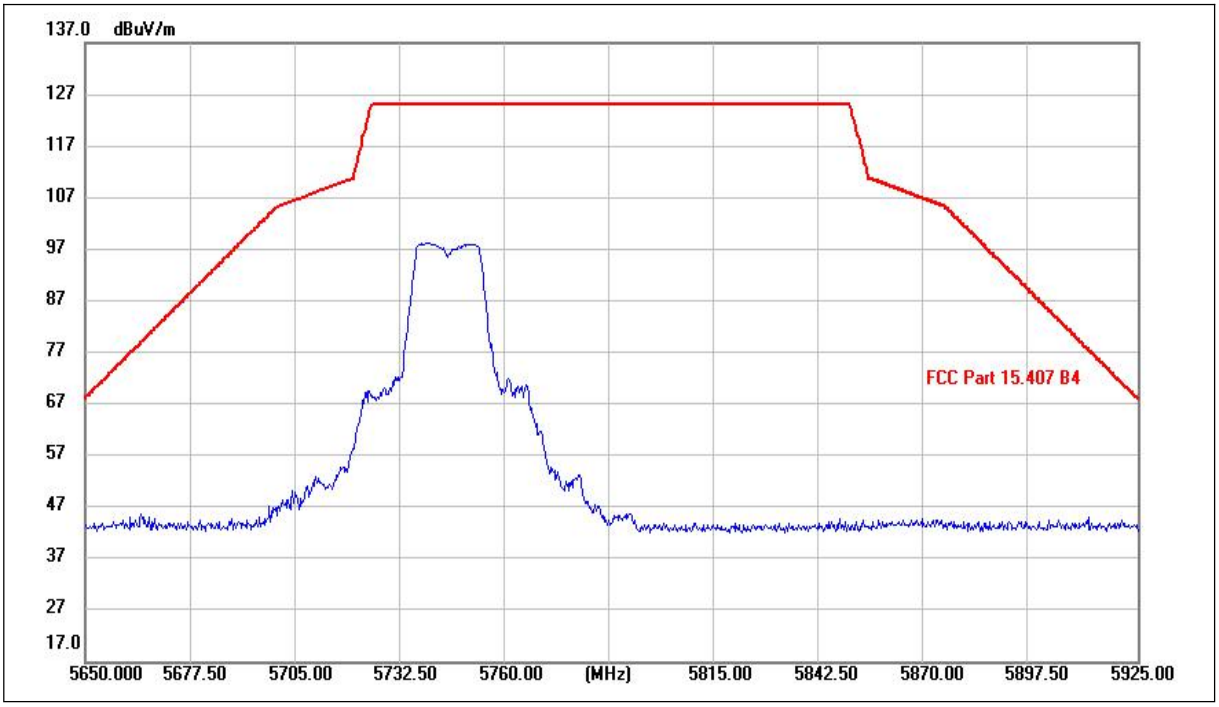


(802.11ac _5240MHz, Antenna Vertical)

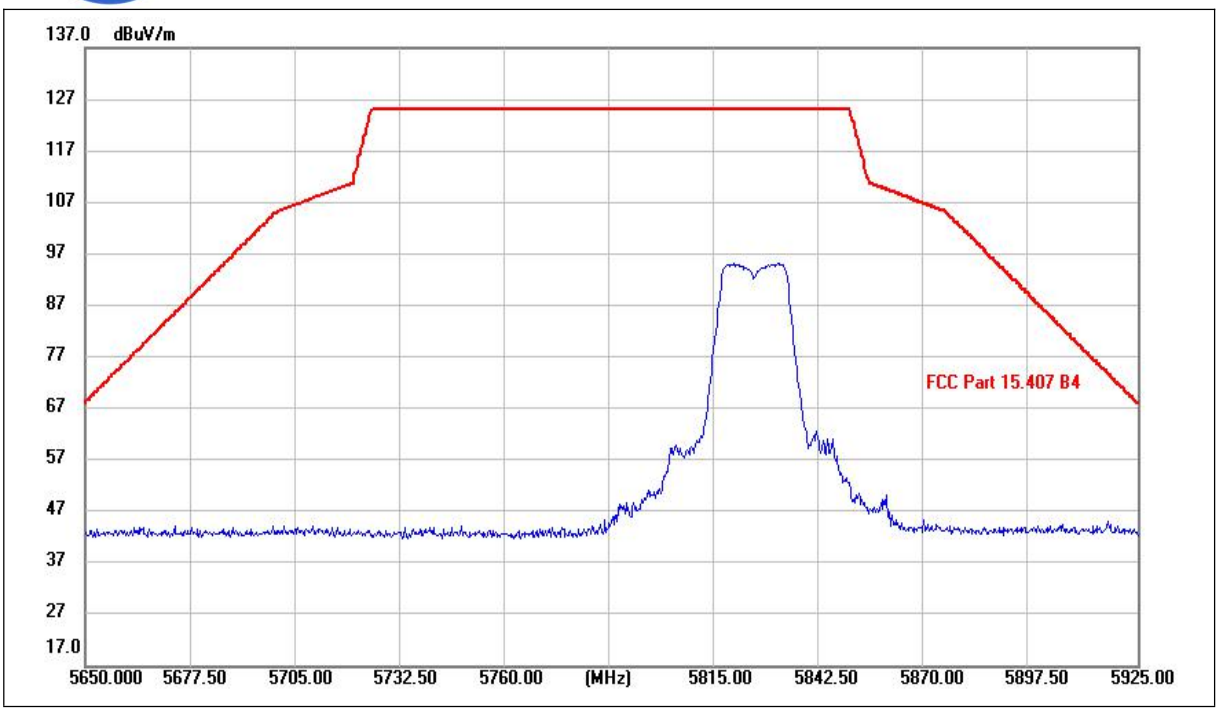
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
5124.480	36.76	-3.11	33.65	54.00	-20.35	AVG	V
5124.642	44.66	-3.11	41.55	74.00	-32.45	peak	V
5149.455	44.76	-3.24	41.52	74.00	-32.48	peak	V
5149.752	37.26	-3.24	34.02	54.00	-19.98	AVG	V
5240.184	99.22	-3.05	96.17	N/A	N/A	peak	V
5240.229	92.12	-3.05	89.07	N/A	N/A	AVG	V



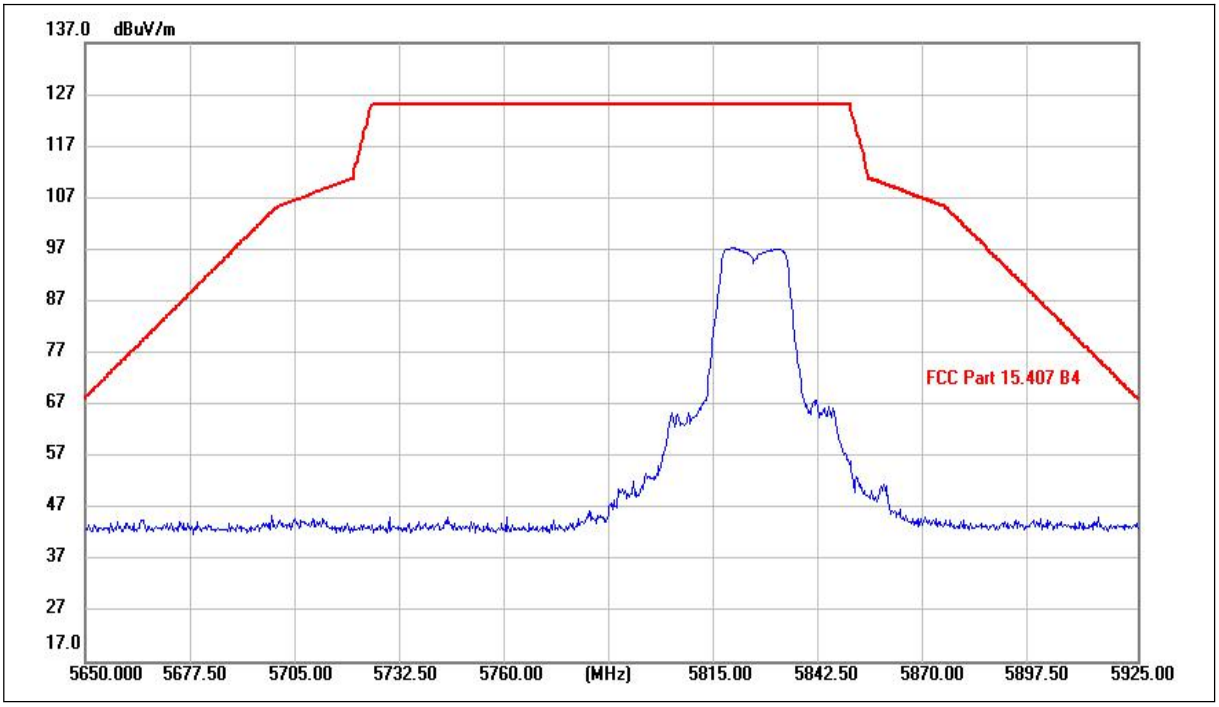
(802.11ac _5745MHz, Antenna Horizontal)



(802.11ac _5745MHz, Antenna Vertical)

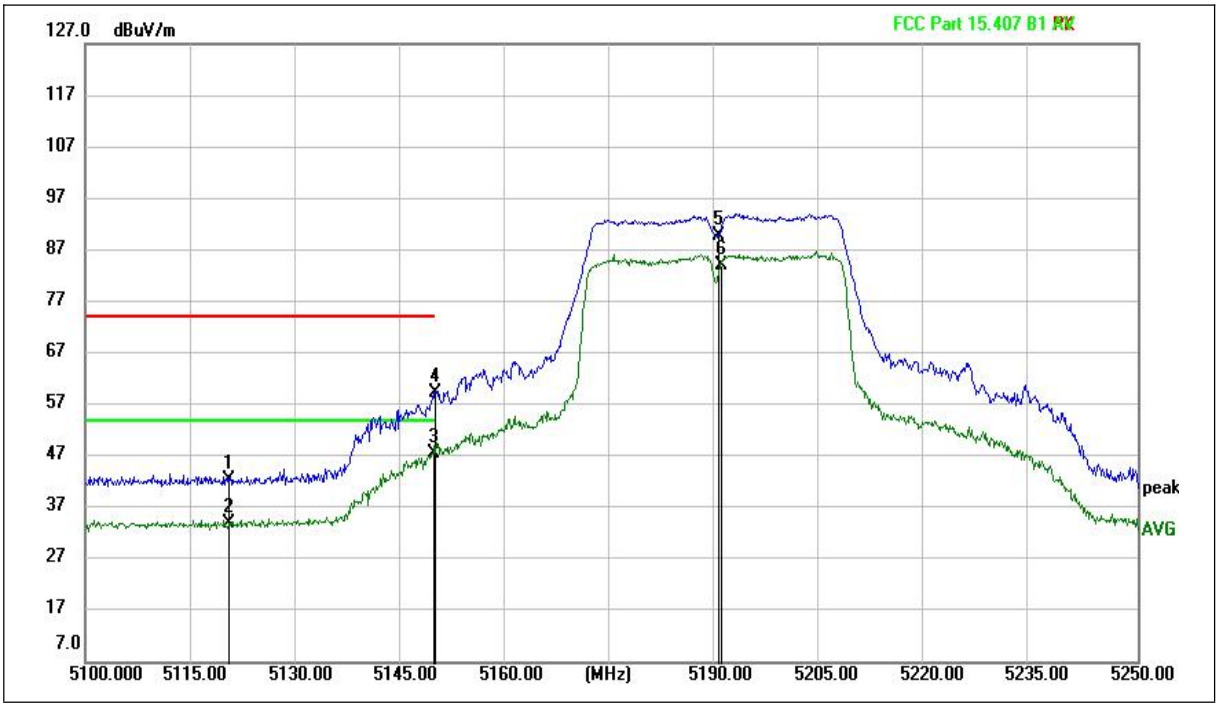


(802.11ac _5825MHz, Antenna Horizontal)



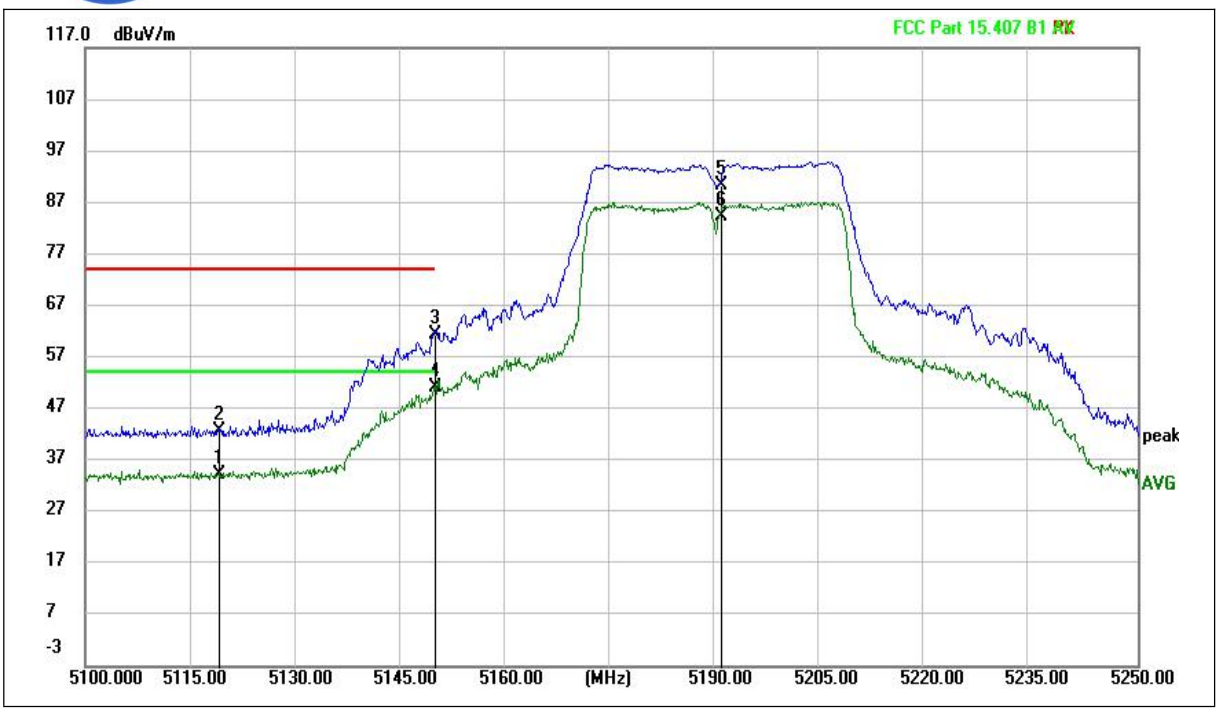
(802.11ac _5825MHz, Antenna Vertical)

802.11ac (HT40) Test mode



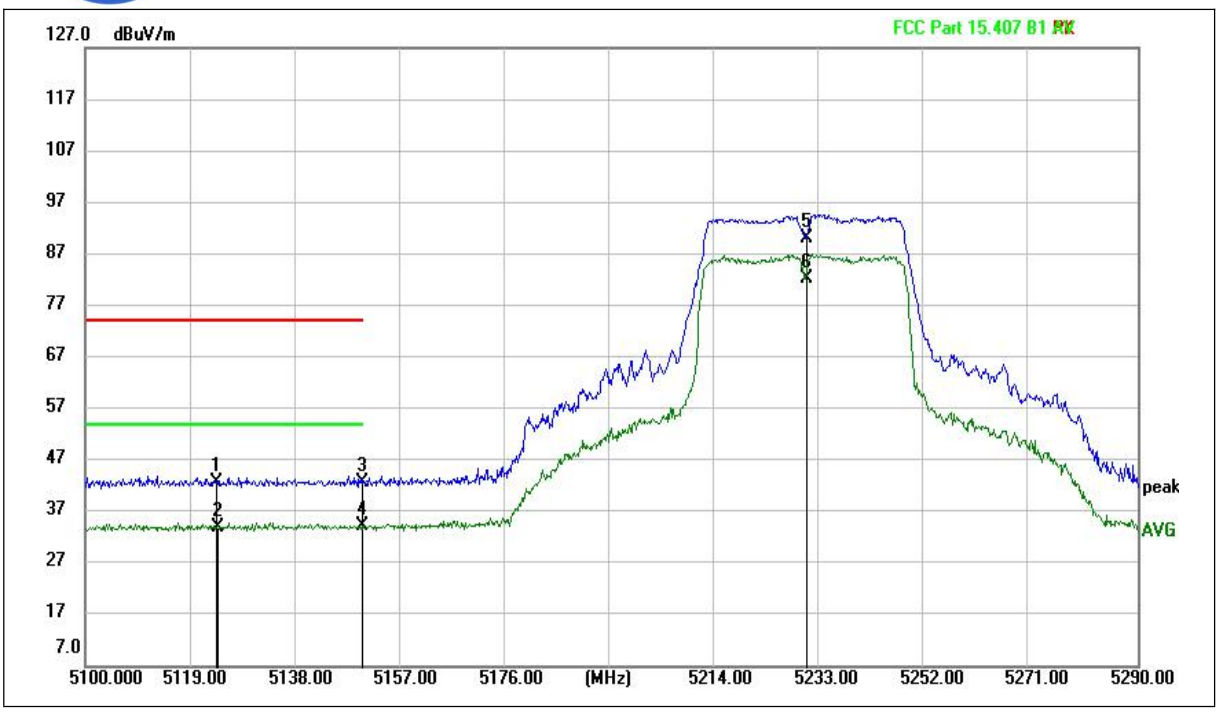
(802.11ac (HT40) _5190MHz, Antenna Horizontal)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
5120.333	45.39	-3.09	42.30	74.00	-31.70	peak	H
5120.467	37.05	-3.10	33.95	54.00	-20.05	AVG	H
5149.762	50.86	-3.24	47.62	54.00	-6.38	AVG	H
5149.898	62.47	-3.24	59.23	74.00	-14.77	peak	H
5190.240	92.74	-3.02	89.72	N/A	N/A	peak	H
5190.682	87.04	-3.02	84.02	N/A	N/A	AVG	H



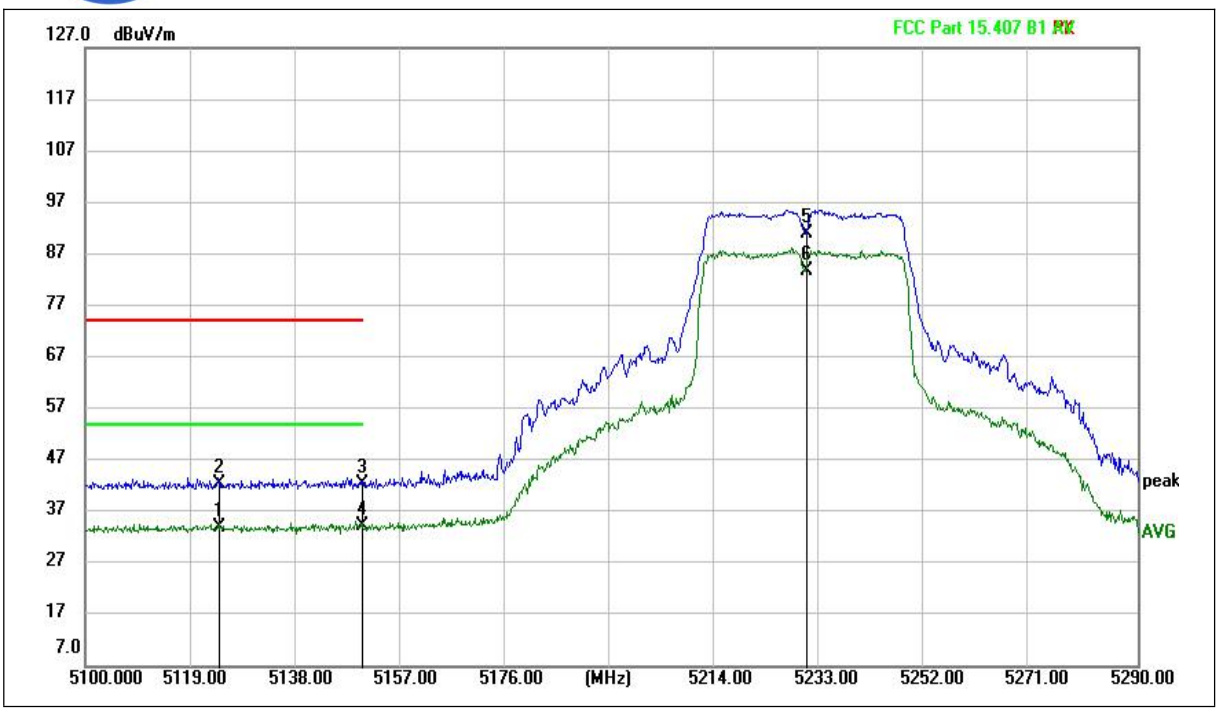
(802.11ac (HT40) _5190MHz, Antenna Vertical)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
5118.960	37.32	-3.09	34.23	54.00	-19.77	AVG	V
5119.155	45.63	-3.09	42.54	74.00	-31.46	peak	V
5149.823	64.67	-3.24	61.43	74.00	-12.57	peak	V
5149.823	54.51	-3.24	51.27	54.00	-2.73	AVG	V
5190.555	93.40	-3.02	90.38	N/A	N/A	peak	V
5190.555	87.17	-3.02	84.15	N/A	N/A	AVG	V



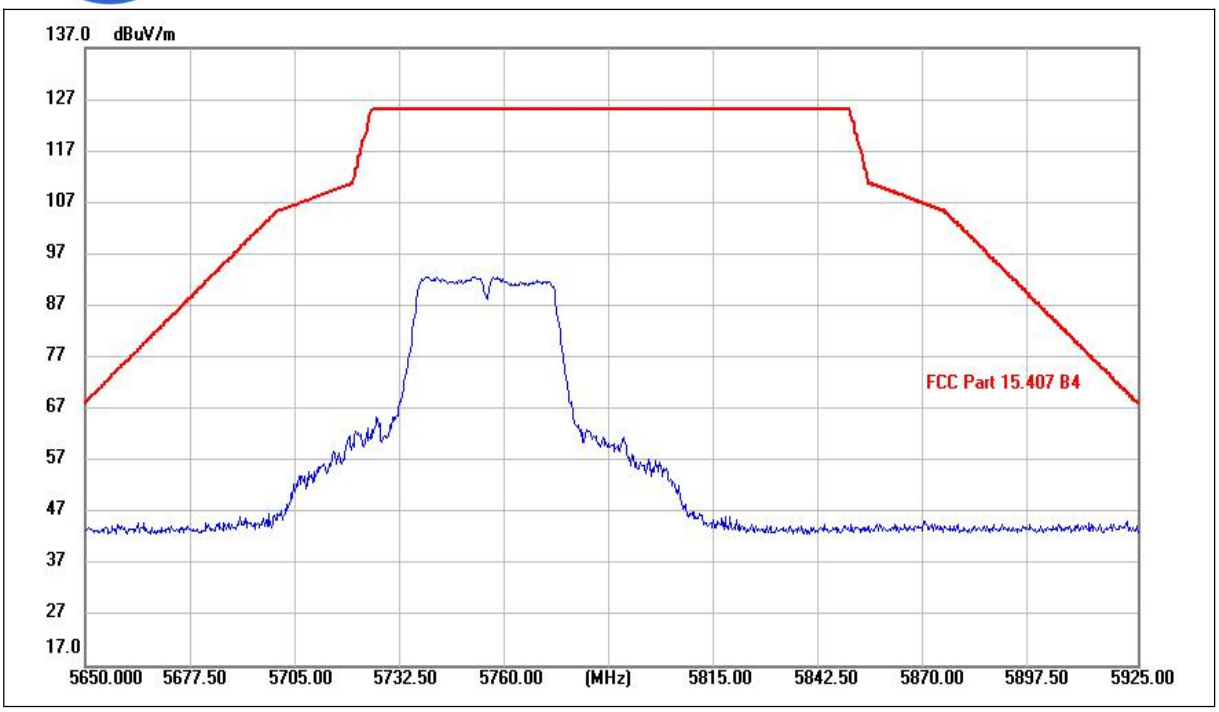
(802.11ac (HT40) _5230MHz, Antenna Horizontal)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
5123.608	45.81	-3.11	42.70	74.00	-31.30	peak	H
5123.855	37.14	-3.11	34.03	54.00	-19.97	AVG	H
5149.961	45.89	-3.24	42.65	74.00	-31.35	peak	H
5149.998	37.44	-3.24	34.20	54.00	-19.80	AVG	H
5230.283	92.97	-3.00	89.97	N/A	N/A	peak	H
5230.283	85.35	-3.00	82.35	N/A	N/A	AVG	H

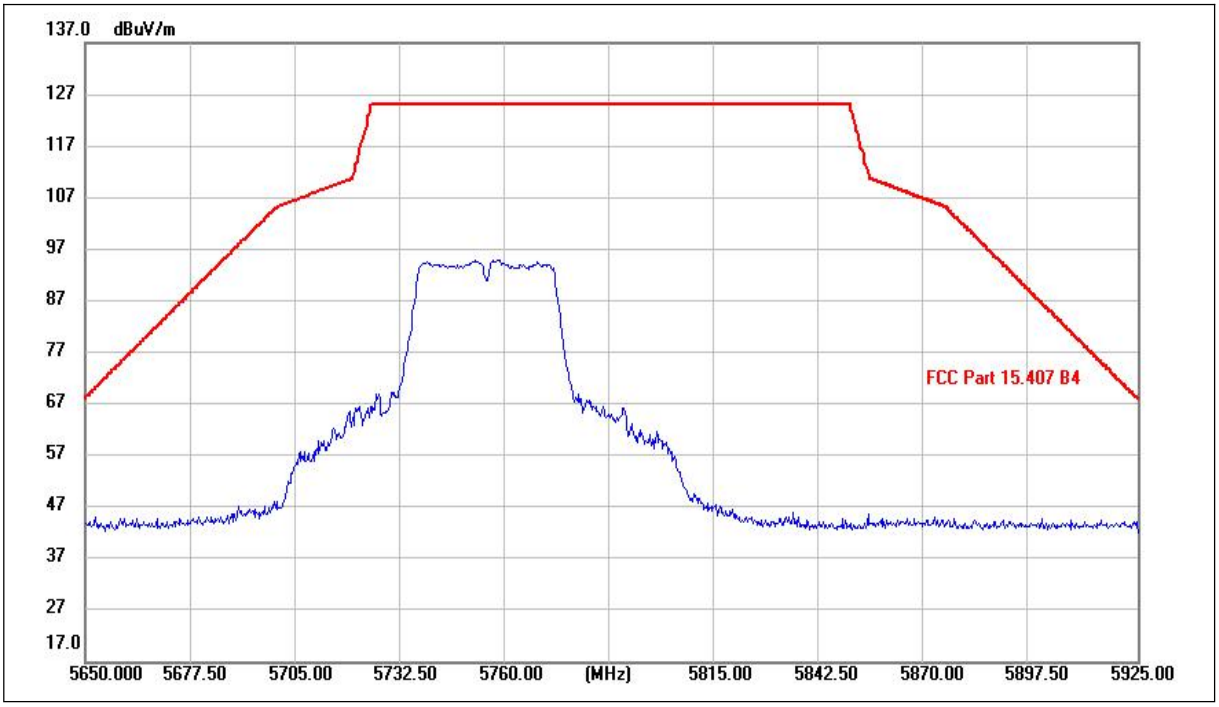


(802.11ac (HT40) _5230MHz, Antenna Vertical)

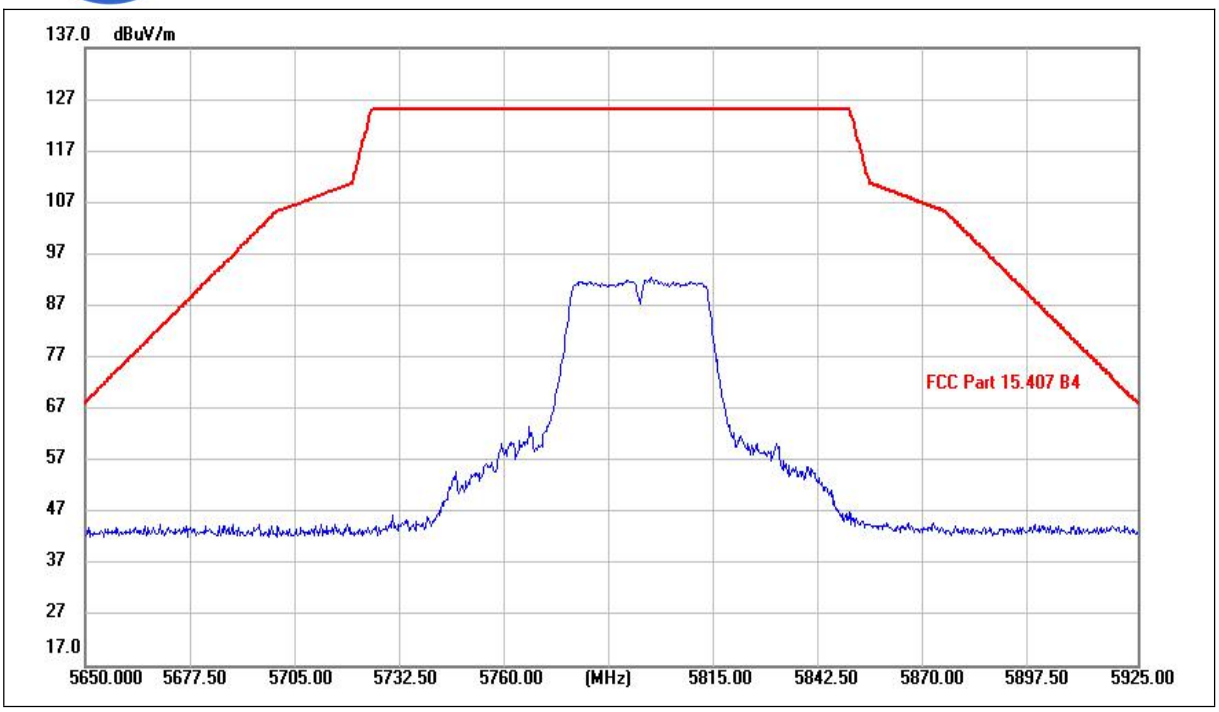
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
5124.177	37.24	-3.11	34.13	54.00	-19.87	AVG	V
5124.216	45.55	-3.11	42.44	74.00	-31.56	peak	V
5149.922	45.56	-3.24	42.32	74.00	-31.68	peak	V
5149.922	37.41	-3.24	34.17	54.00	-19.83	AVG	V
5230.311	93.92	-3.00	90.92	N/A	N/A	peak	V
5230.311	86.66	-3.00	83.66	N/A	N/A	AVG	V



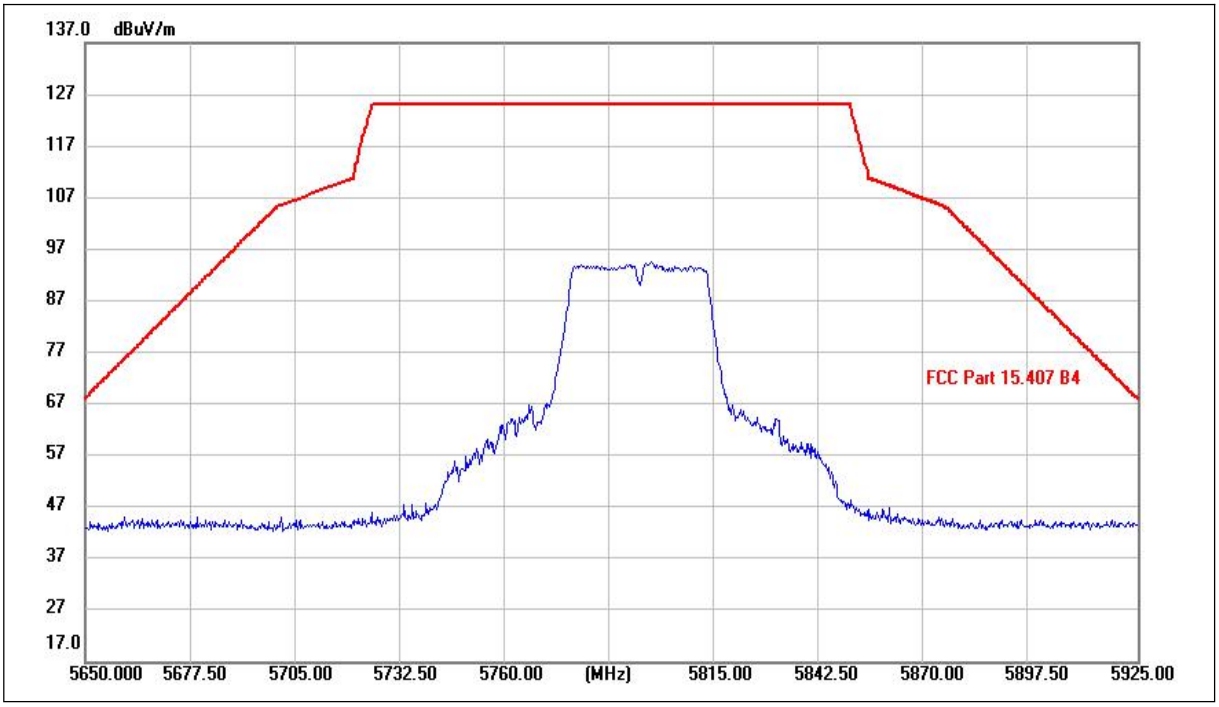
(802.11ac(HT40) _5755MHz, Antenna Horizontal)



(802.11ac(HT40) _5755MHz, Antenna Vertical)

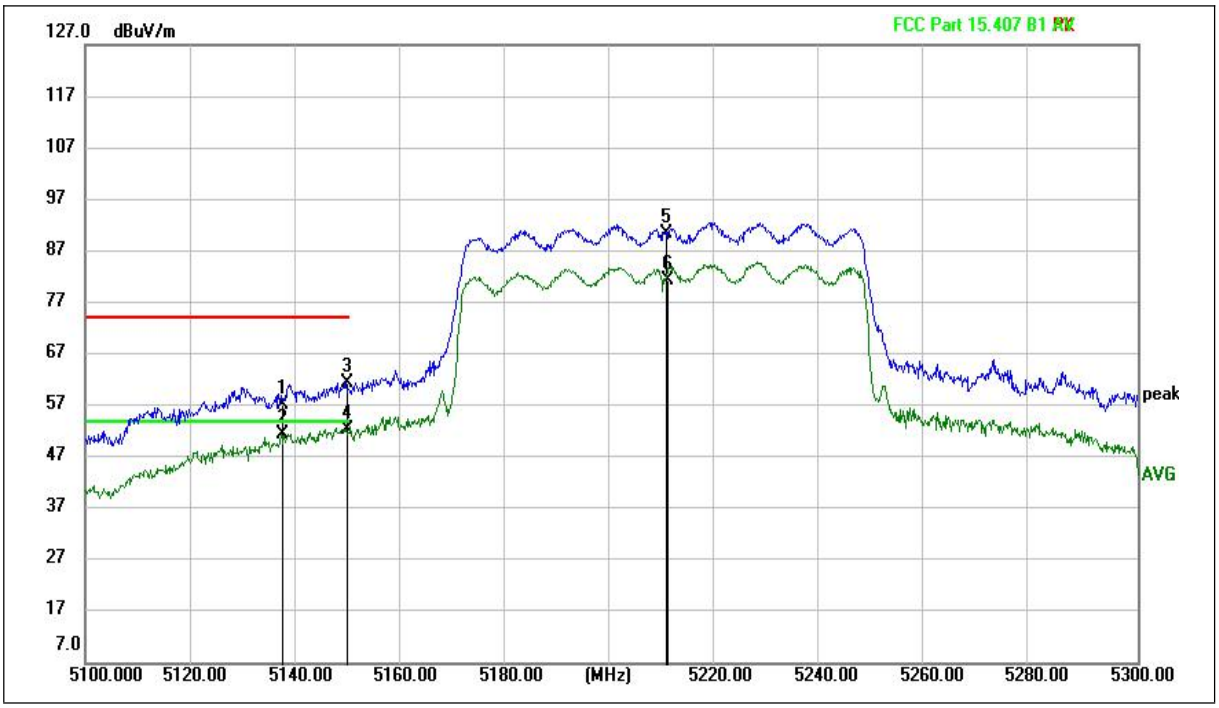


(802.11ac(HT40) _5795MHz, Antenna Horizontal)



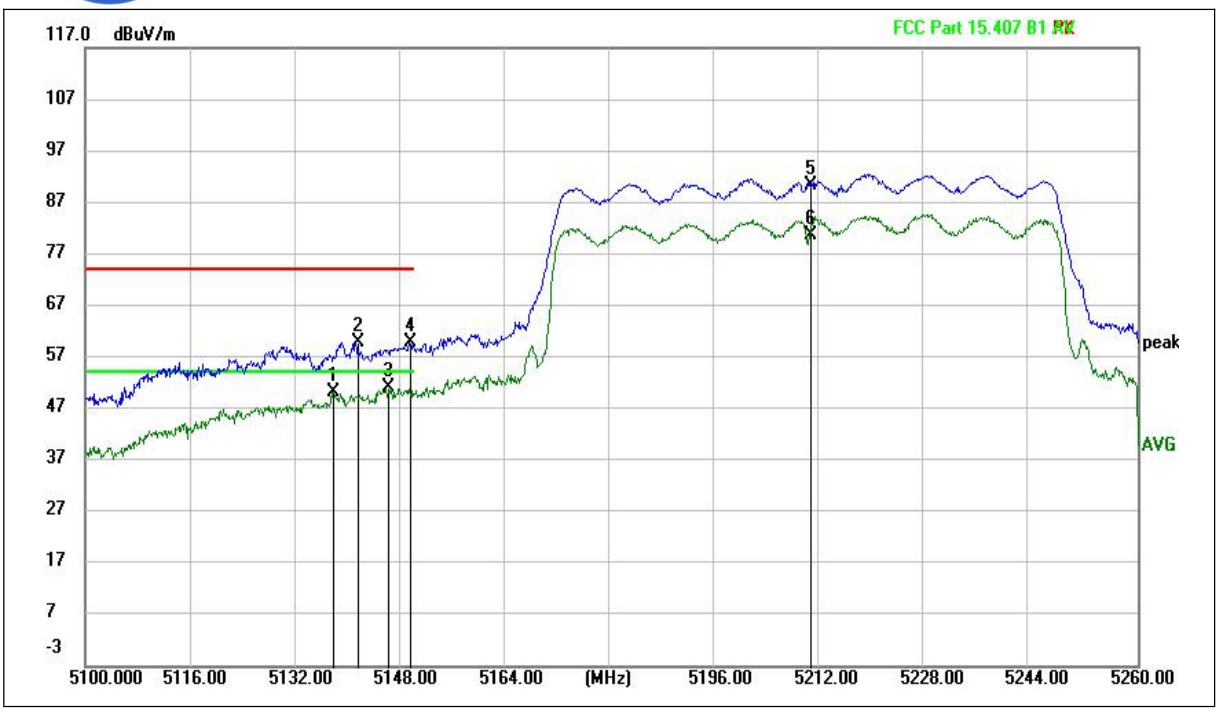
(802.11ac(HT40)_5795MHz, Antenna Vertical)

802.11ac (HT80) Test mode



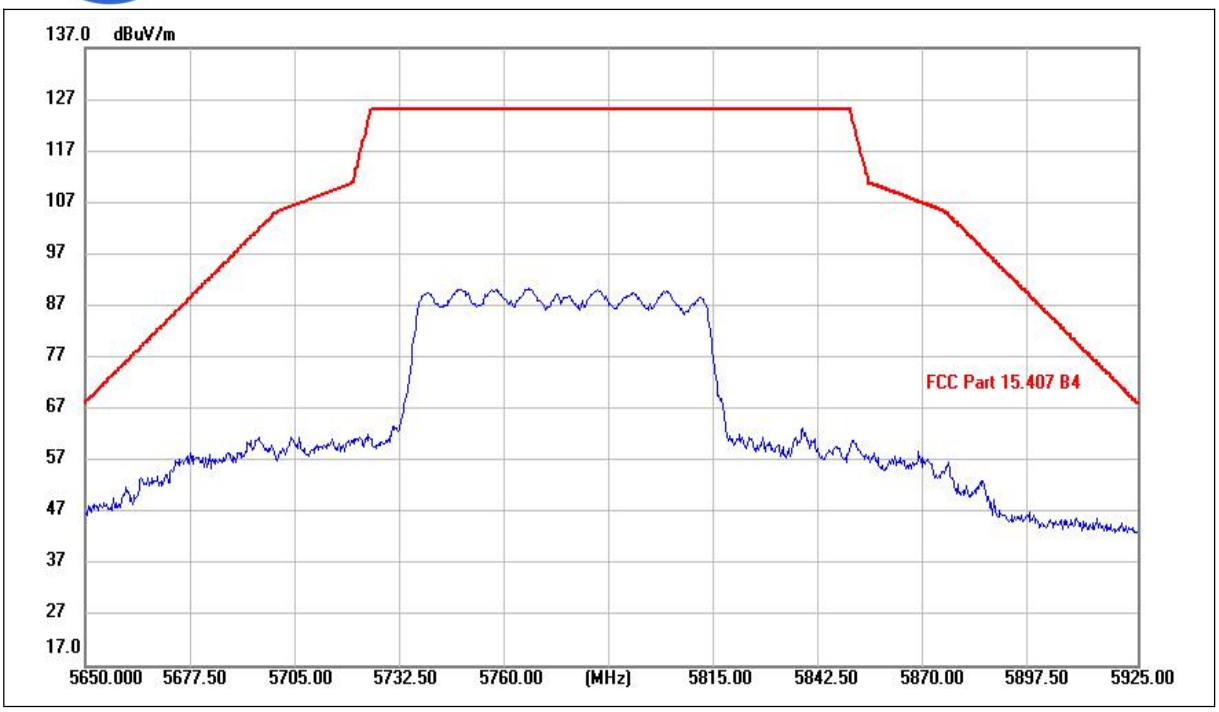
(802.11ac (HT80) _5210MHz, Antenna Horizontal)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
5137.240	60.28	-3.18	57.10	74.00	-16.90	peak	H
5137.530	54.63	-3.18	51.45	54.00	-2.55	AVG	H
5149.680	64.52	-3.24	61.28	74.00	-12.72	peak	H
5149.680	55.47	-3.24	52.23	54.00	-1.77	AVG	H
5210.360	93.32	-2.95	90.37	N/A	N/A	peak	H
5210.410	84.26	-2.95	81.31	N/A	N/A	AVG	H

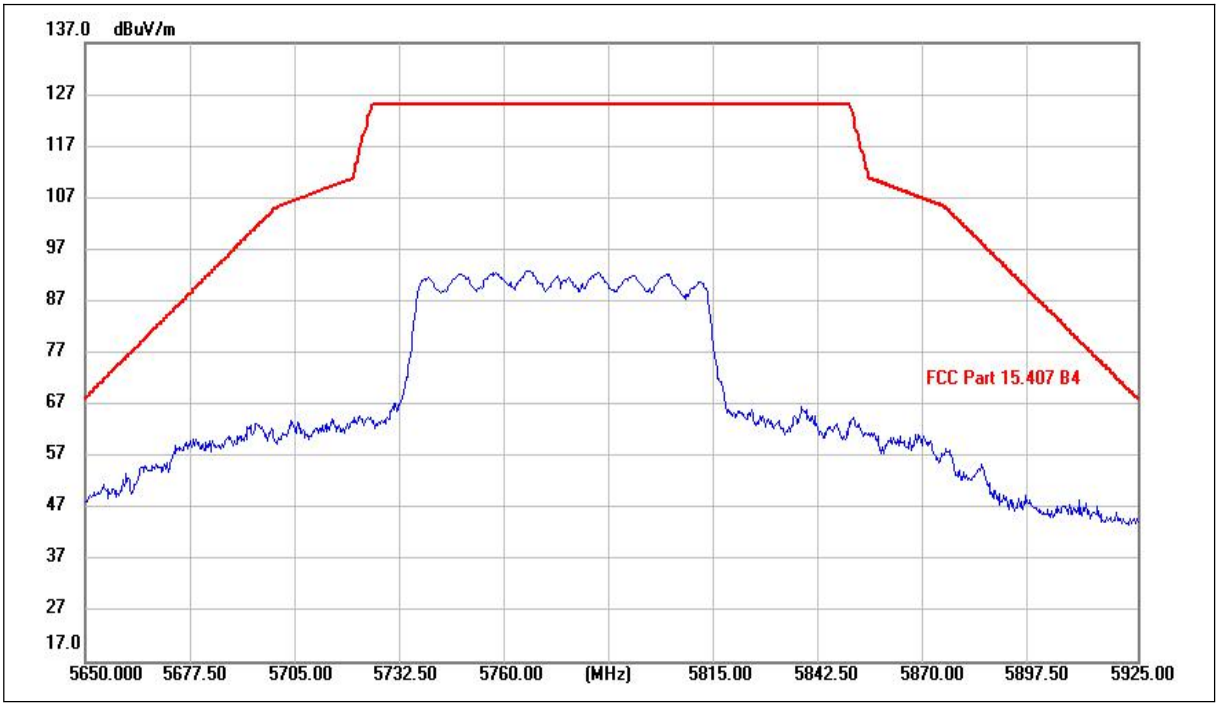


(802.11ac (HT80) _5210MHz, Antenna Vertical)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
5137.720	53.29	-3.18	50.11	54.00	-3.89	AVG	V
5141.336	63.04	-3.20	59.84	74.00	-14.16	peak	V
5145.928	54.19	-3.22	50.97	54.00	-3.03	AVG	V
5149.376	63.15	-3.24	59.91	74.00	-14.09	peak	V
5210.312	93.17	-2.95	90.22	N/A	N/A	peak	V
5210.312	83.51	-2.95	80.56	N/A	N/A	AVG	V



(802.11ac(HT80) _5775MHz, Antenna Horizontal)



(802.11ac(HT80)_5775MHz, Antenna Vertical)

2.6. Frequency Stability

2.6.1. Requirement

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

2.6.2. Test Procedure

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between 0°C to 40°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

2.6.3. Test Result

Frequency Stability Measurements for UNII Band 1 (Ch. 36)

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (MHz)	Freq Dev. (Hz)	Deviation (%)
100%	5	0(Ref)	5179.963	-37000	-7.14
100%		10	5179.981	-19000	-3.67
100%		20	5179.993	-7000	-1.35
100%		30	5179.987	-13000	-2.51
100%		40	5179.979	-21000	-4.05
85%	4.25	20	5179.968	-32000	-6.18
115%	5.75	20	5179.985	-15000	-2.90

Frequency Stability Measurements for UNII Band 3 (Ch. 149)

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (MHz)	Freq Dev. (Hz)	Deviation (%)
100%	5	0(Ref)	5745.023	23000	4.44
100%		10	5745.015	15000	2.90
100%		20	5745.030	30000	5.79
100%		30	5745.018	18000	3.47
100%		40	5745.006	6000	1.16
85%	4.25	20	5745.010	10000	1.93
115%	5.75	20	5745.021	21000	4.05

Note: Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

2.7. Conducted Emission

2.7.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

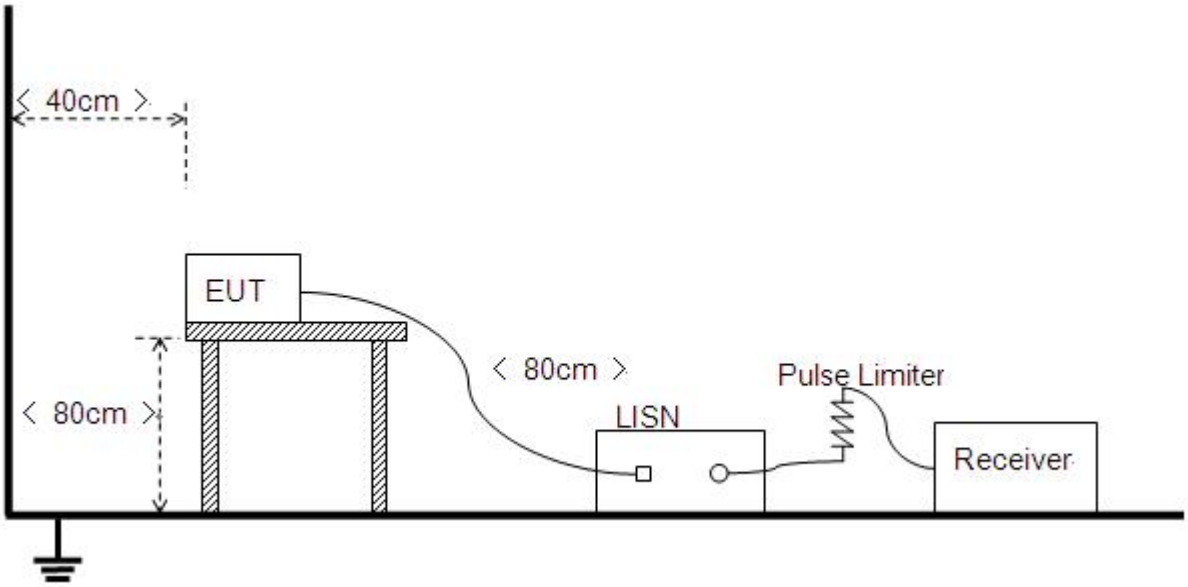
NOTE:

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.7.2. Test Description

A. Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

2.7.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

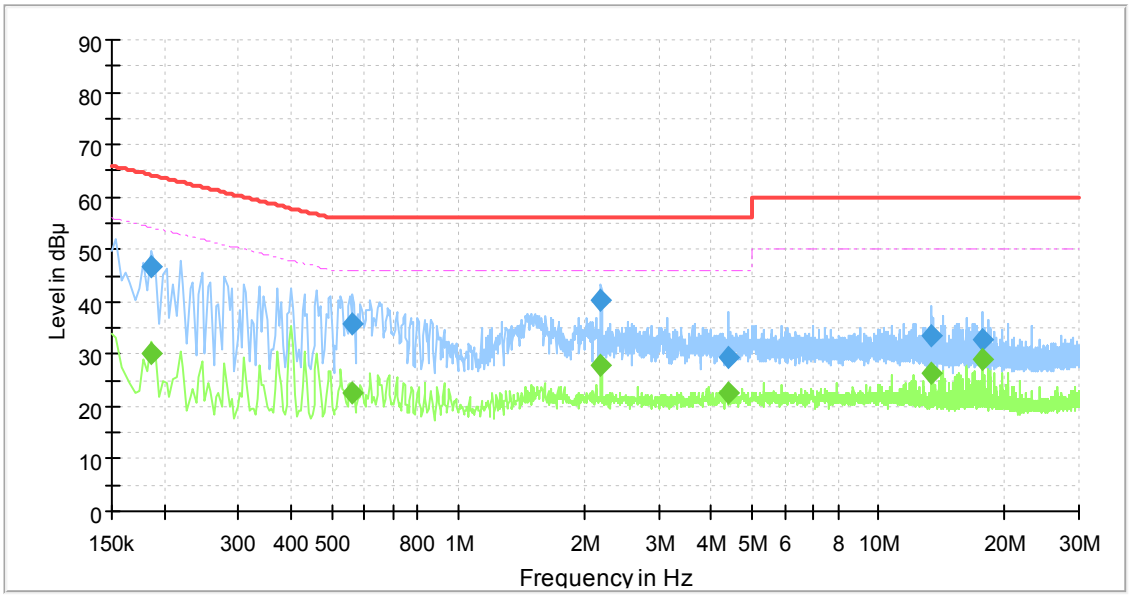
Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test setup:

The EUT configuration of the emission tests is Charging + Wlan 5G Link.

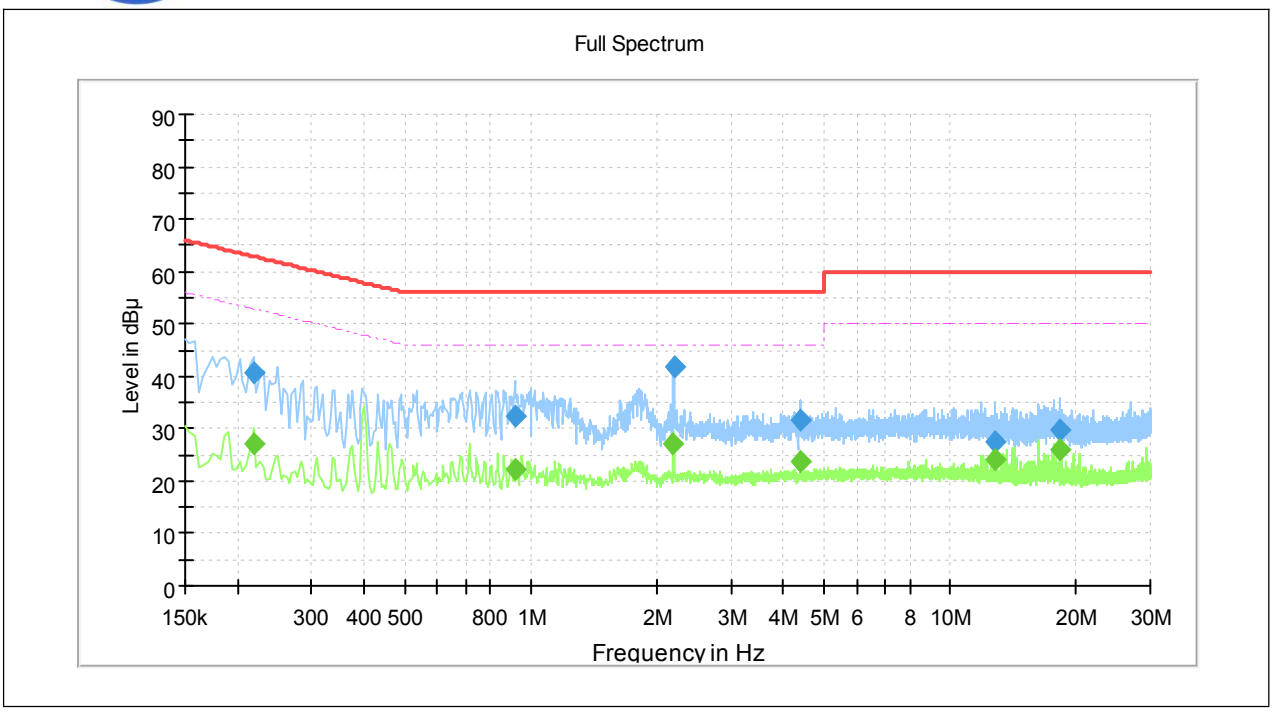
Note: The test voltage is AC 120V/60Hz.

A. Test Plots:



(Plot A: L Phase)

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.186000	---	30.14	54.21	24.08	L1	10.2
0.186000	46.53	---	64.21	17.68	L1	10.2
0.562000	---	22.74	46.00	23.26	L1	10.2
0.562000	35.66	---	56.00	20.34	L1	10.2
2.190000	---	27.79	46.00	18.21	L1	10.3
2.190000	40.31	---	56.00	15.69	L1	10.3
4.382000	29.19	---	56.00	26.81	L1	10.4
4.382000	---	22.65	46.00	23.35	L1	10.4
13.418000	33.64	---	60.00	26.36	L1	10.8
13.418000	---	26.27	50.00	23.73	L1	10.8
17.694000	---	28.94	50.00	21.06	L1	10.8
17.694000	32.69	---	60.00	27.31	L1	10.8



(Plot B: N Phase)

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.218000	---	27.16	52.90	25.74	N	10.4
0.218000	40.62	---	62.90	22.28	N	10.4
0.918000	---	22.39	46.00	23.61	N	10.4
0.918000	32.32	---	56.00	23.68	N	10.4
2.190000	---	27.27	46.00	18.73	N	10.5
2.194000	41.94	---	56.00	14.06	N	10.5
4.386000	31.79	---	56.00	24.21	N	10.6
4.386000	---	23.70	46.00	22.30	N	10.6
12.746000	27.60	---	60.00	32.40	N	10.9
12.746000	---	23.95	50.00	26.05	N	10.9
18.246000	---	26.16	50.00	23.84	N	11.0
18.246000	29.60	---	60.00	30.40	N	11.0

2.8. Radiated Emission

2.8.1. Requirement

The peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
(2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
(3) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of −27 dBm/MHz.
The following formula is used to convert the equipment isotropic radiated power(eirp) to field strength (dBμV/m);

$$E = 1000000 \times \sqrt{30P} / 3 \ \mu V/m$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz = 68.23 dBuV/m

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

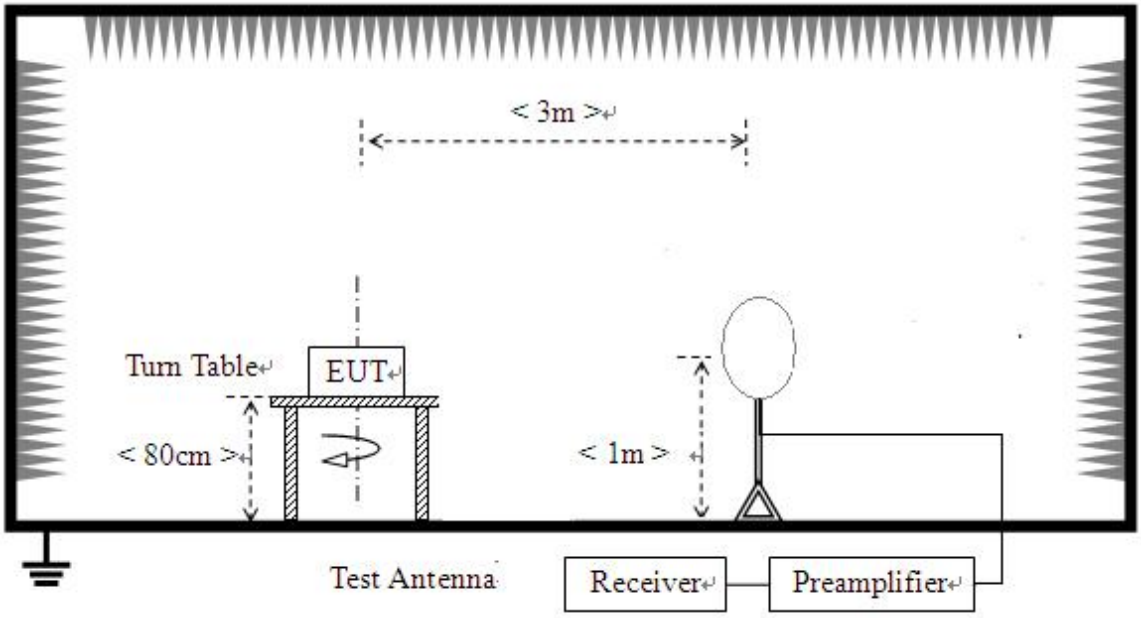
For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

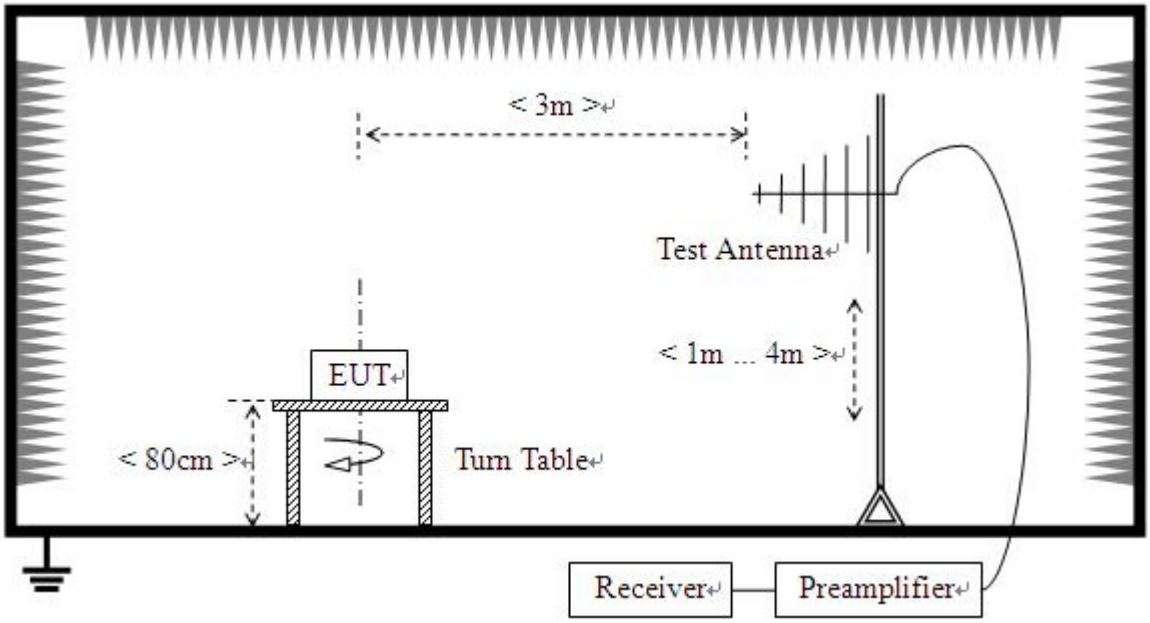
2.8.2. Test Description

A. Test Setup:

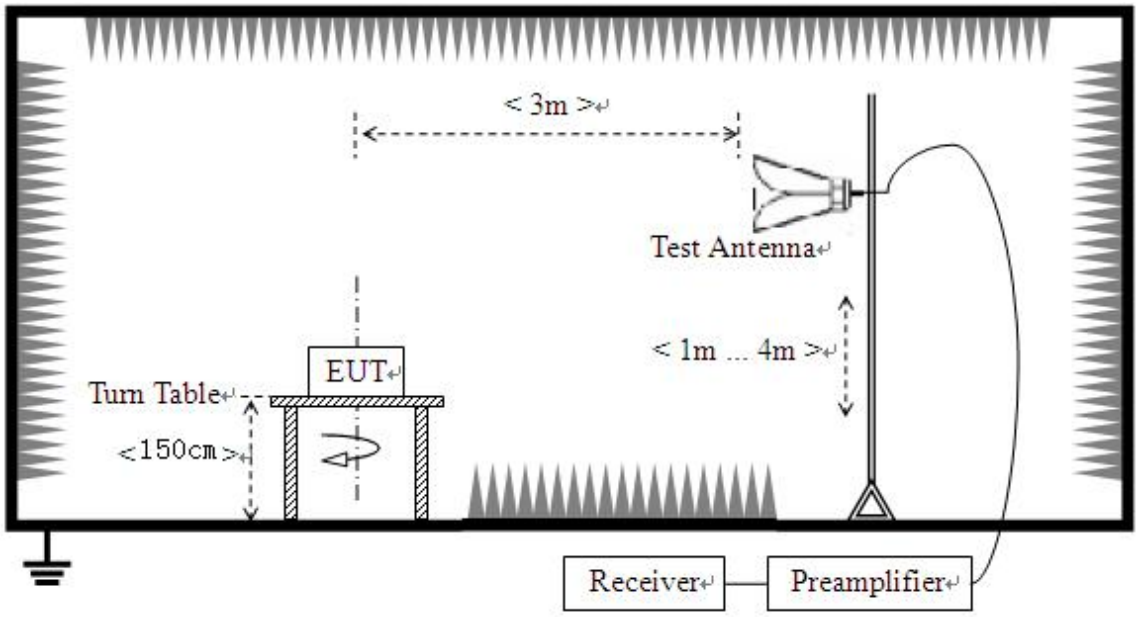
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



The RF absorbing material used on the reference ground plane and on the turntable have a maximum height (thickness) of 30 cm (12 in) and have a minimum-rated attenuation of 20 dB at all frequencies from 1 GHz to 18 GHz.

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10 (2013). For radiated emissions below or equal to 1GHz, The EUT was set-up on insulator 80cm above the Ground Plane, For radiated emissions above 1GHz, The EUT

was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10

For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Place the test antenna at 3m away from area of the EUT, while keeping the test antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The test antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final test antenna elevation shall be that which maximizes the emissions. The test antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. The emission levels at both horizontal and vertical polarizations should be tested.
For Radiated emission below 30MHz
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
NOTE:
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz
a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

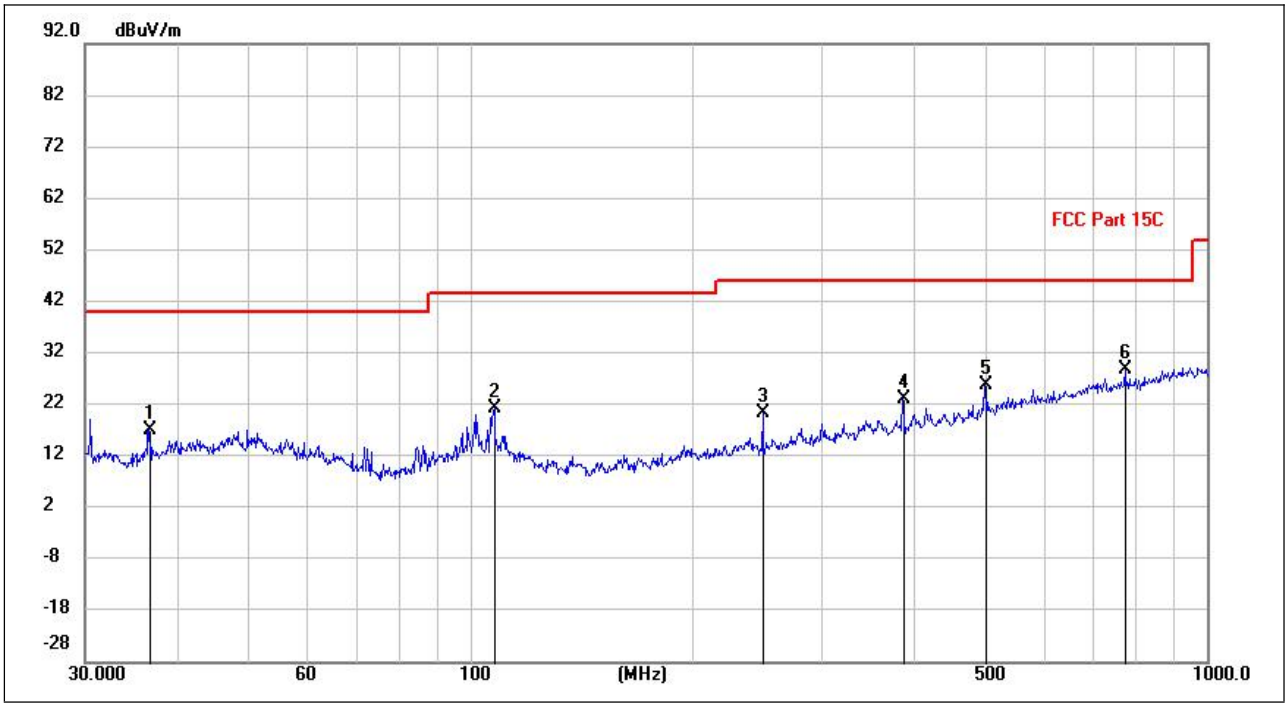
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasipeak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

2.8.3. Test Result

Note1: For the frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.
Note2: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

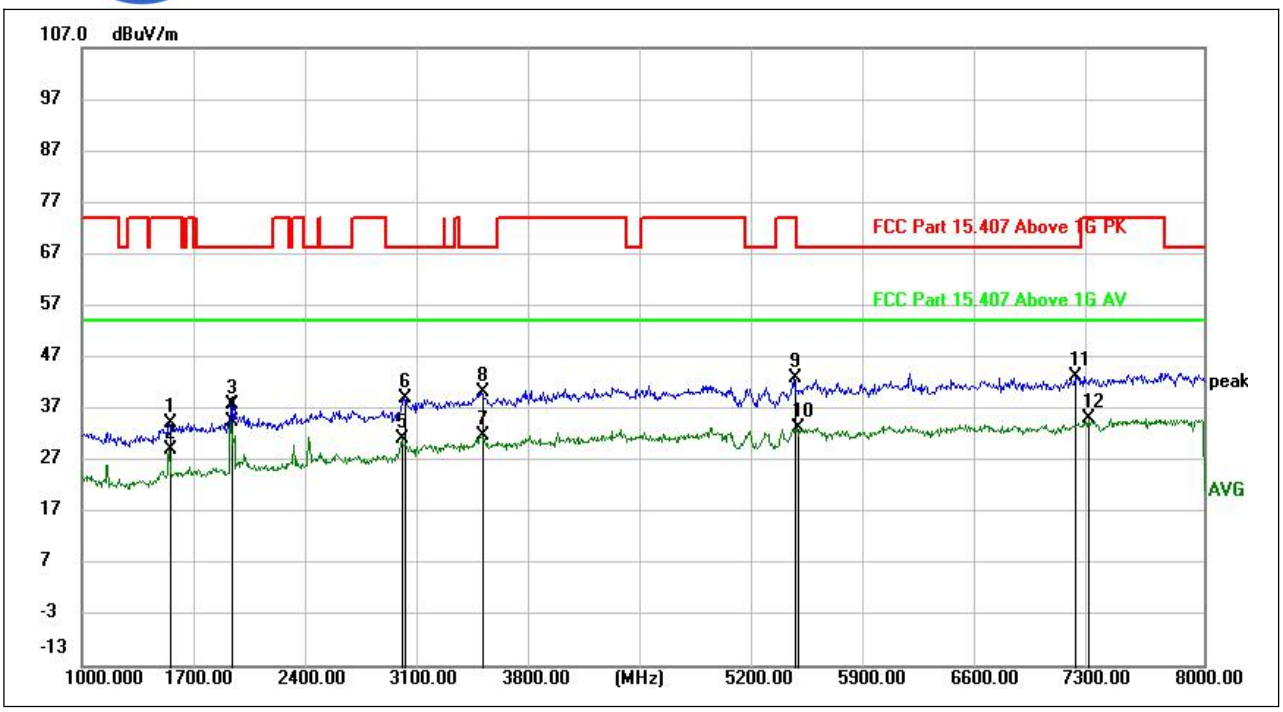
802.11ac Test mode

Plot for Channel = 36



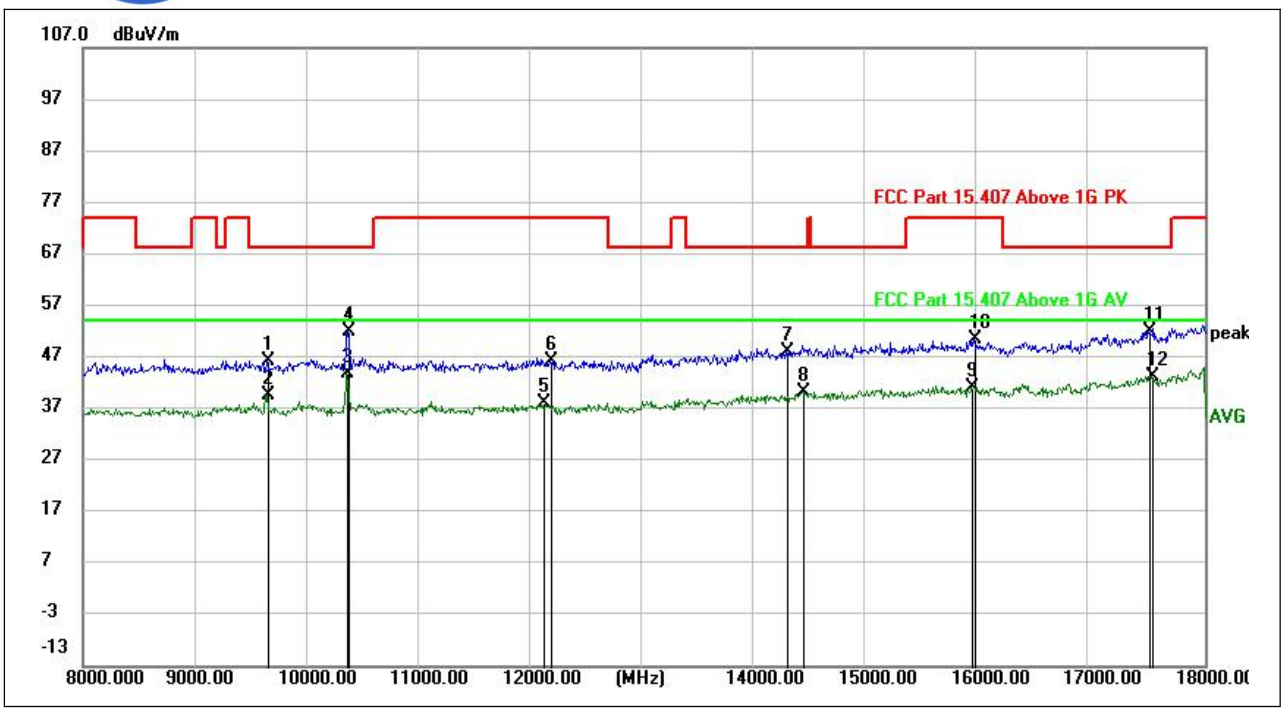
(802.11ac _5180MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
36.6696	3.80	13.42	17.22	40.00	-22.78	peak	H
108.0013	6.68	14.59	21.27	43.50	-22.23	peak	H
249.9942	5.55	14.89	20.44	46.00	-25.56	peak	H
387.5161	4.70	18.33	23.03	46.00	-22.97	peak	H
500.0380	3.71	22.00	25.71	46.00	-20.29	peak	H
775.1091	2.76	26.07	28.83	46.00	-17.17	peak	H



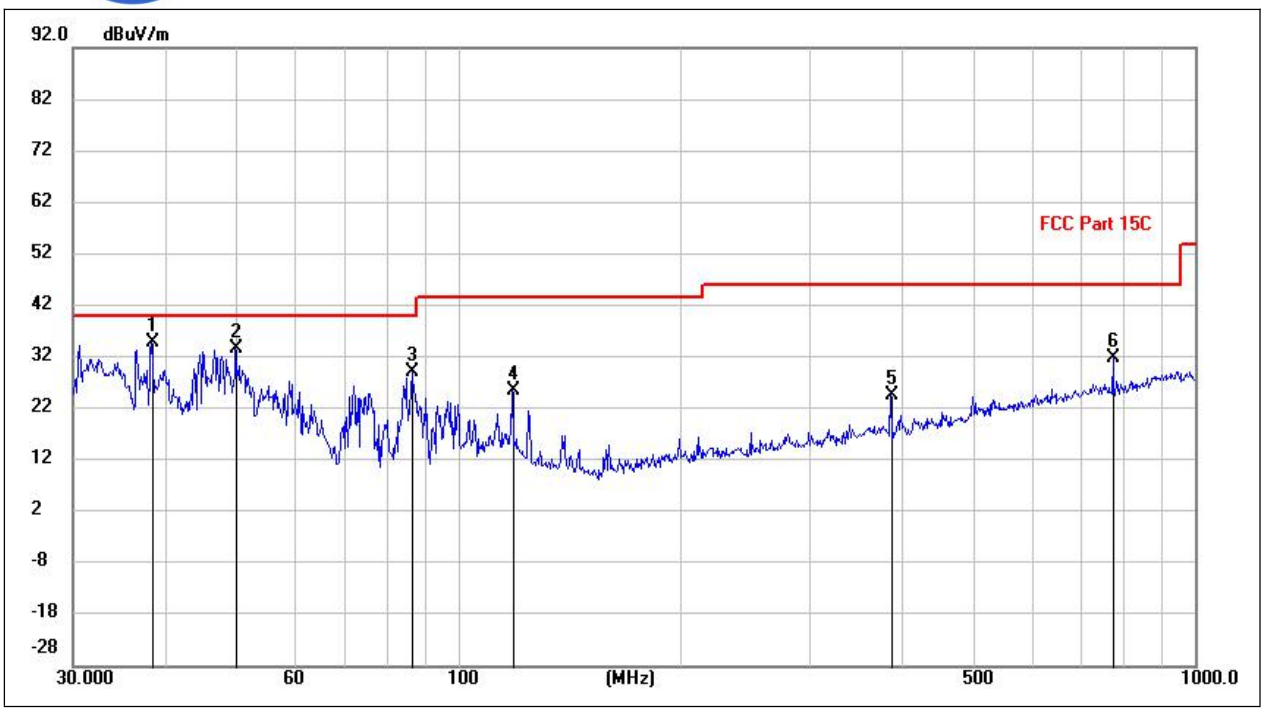
(802.11ac _5180MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1549.850	49.44	-15.26	34.18	74.00	-39.82	peak	H
1549.850	44.24	-15.26	28.98	54.00	-25.02	AVG	H
1937.300	52.00	-14.15	37.85	68.20	-30.35	peak	H
1937.300	48.57	-14.15	34.42	54.00	-19.58	AVG	H
2999.900	40.45	-9.30	31.15	54.00	-22.85	AVG	H
3014.600	48.17	-9.06	39.11	68.20	-29.09	peak	H
3494.800	40.19	-8.35	31.84	54.00	-22.16	AVG	H
3497.950	48.57	-8.47	40.10	68.20	-28.10	peak	H
5449.900	46.65	-3.74	42.91	74.00	-31.09	peak	H
5461.800	37.14	-3.99	33.15	54.00	-20.85	AVG	H
7199.550	44.73	-1.52	43.21	68.20	-24.99	peak	H
7285.300	36.27	-1.32	34.95	54.00	-19.05	AVG	H



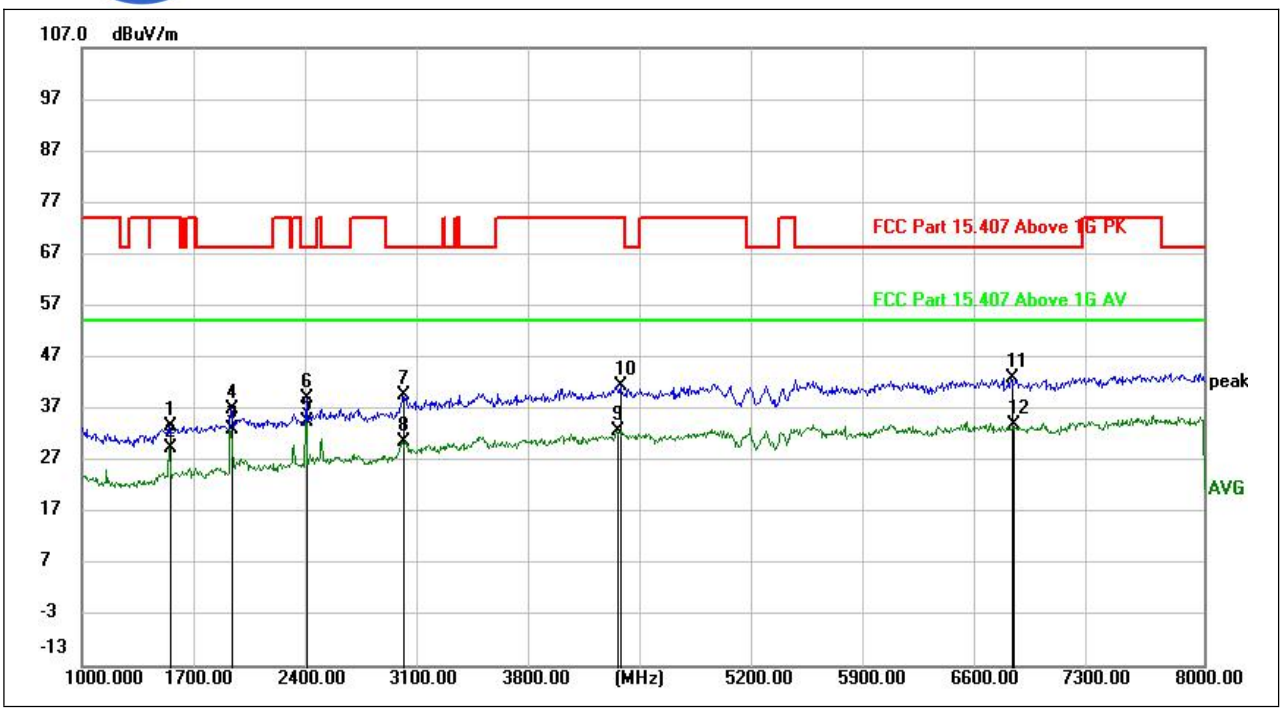
(802.11ac _5180MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
9648.000	44.20	1.96	46.16	68.20	-22.04	peak	H
9648.000	37.65	1.96	39.61	54.00	-14.39	AVG	H
10359.500	41.46	2.43	43.89	54.00	-10.11	AVG	H
10360.500	49.49	2.42	51.91	68.20	-16.29	peak	H
12103.000	34.21	4.04	38.25	54.00	-15.75	AVG	H
12170.500	41.88	4.45	46.33	74.00	-27.67	peak	H
14279.000	39.67	8.42	48.09	68.20	-20.11	peak	H
14417.000	31.42	8.75	40.17	54.00	-13.83	AVG	H
15921.500	30.00	11.26	41.26	54.00	-12.74	AVG	H
15950.000	38.98	11.48	50.46	74.00	-23.54	peak	H
17506.500	38.23	13.82	52.05	68.20	-16.15	peak	H
17520.500	29.51	13.81	43.32	54.00	-10.68	AVG	H



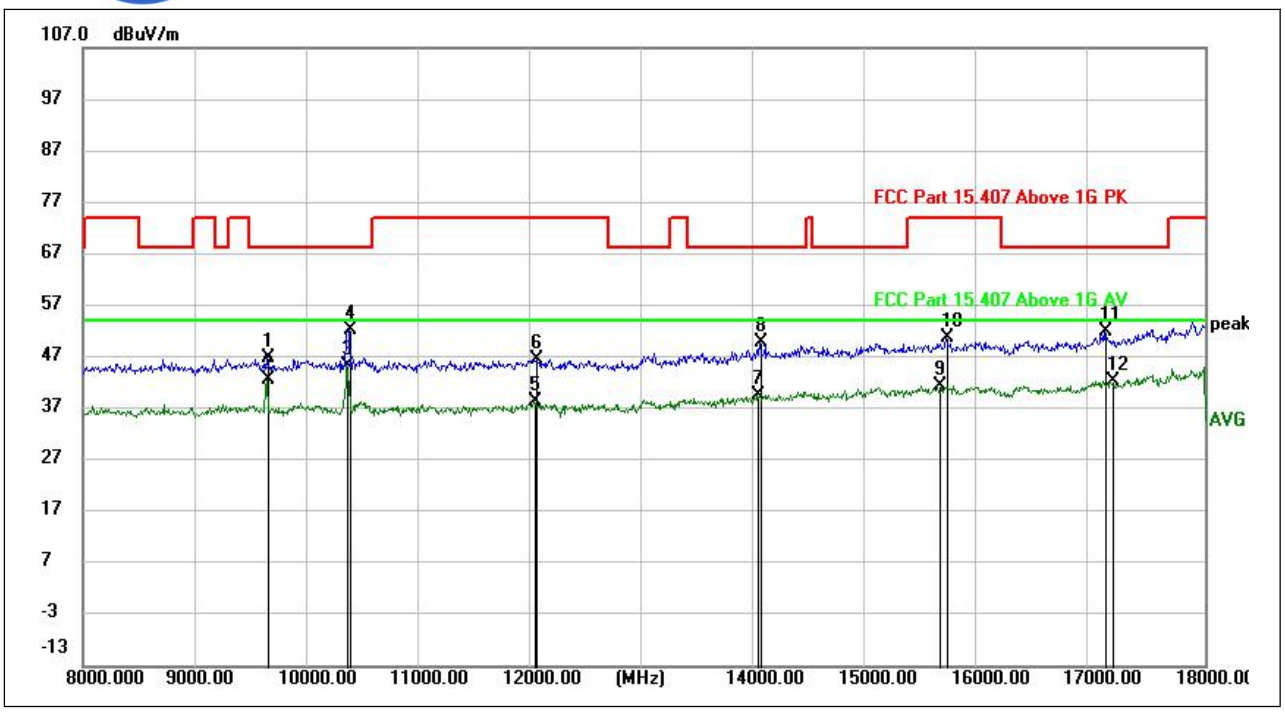
(802.11ac _5180MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
38.4607	20.70	14.08	34.78	40.00	-5.22	peak	V
50.0128	17.46	16.20	33.66	40.00	-6.34	peak	V
86.7155	17.89	11.16	29.05	40.00	-10.95	peak	V
118.8095	12.46	13.09	25.55	43.50	-17.95	peak	V
387.5161	6.25	18.33	24.58	46.00	-21.42	peak	V
775.1091	5.67	26.07	31.74	46.00	-14.26	peak	V



(802.11ac _5180MHz, Antenna Vertical , 1GHz to 8GHz)

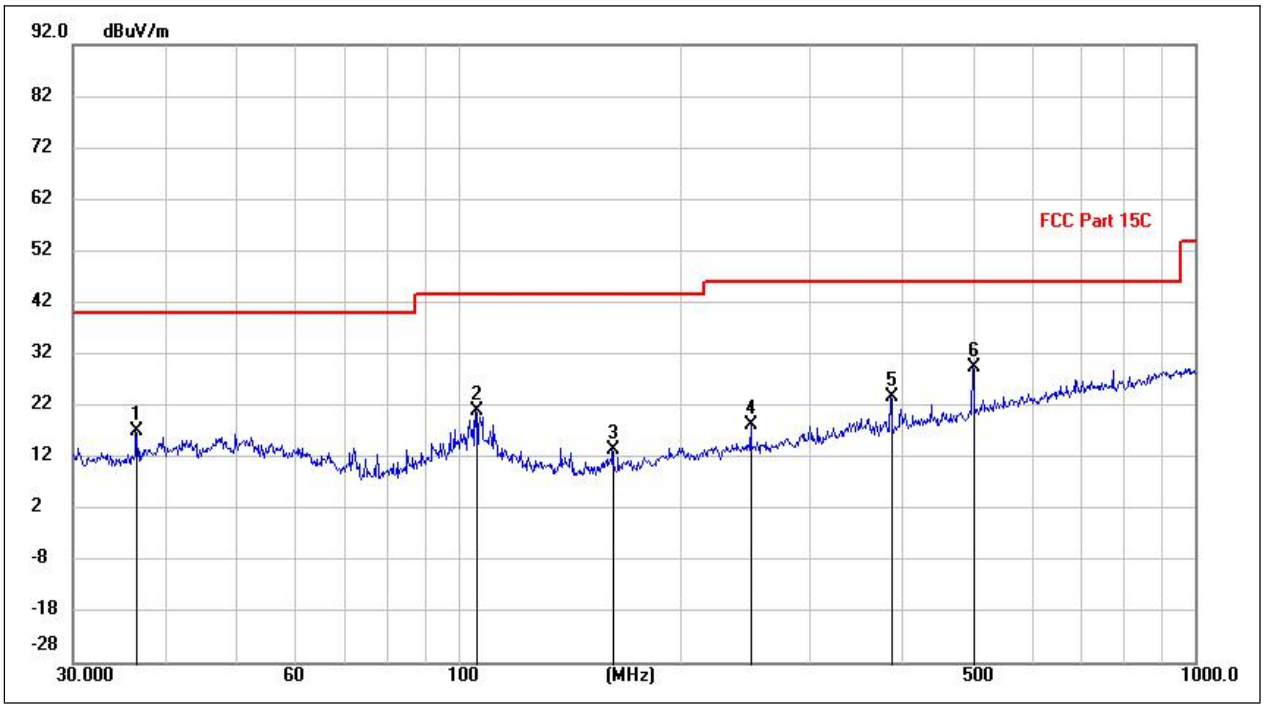
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1549.850	48.75	-15.26	33.49	74.00	-40.51	peak	V
1549.850	44.62	-15.26	29.36	54.00	-24.64	AVG	V
1937.300	47.16	-14.15	33.01	54.00	-20.99	AVG	V
1937.650	51.00	-14.14	36.86	68.20	-31.34	peak	V
2401.750	46.59	-12.20	34.39	54.00	-19.61	AVG	V
2402.100	51.21	-12.20	39.01	68.20	-29.19	peak	V
3005.850	46.68	-7.17	39.51	68.20	-28.69	peak	V
3005.850	37.81	-7.17	30.64	54.00	-23.36	AVG	V
4339.700	36.79	-4.21	32.58	54.00	-21.42	AVG	V
4364.900	45.69	-4.27	41.42	74.00	-32.58	peak	V
6804.400	45.07	-2.17	42.90	68.20	-25.30	peak	V
6814.900	36.06	-2.14	33.92	54.00	-20.08	AVG	V



(802.11ac _5180MHz, Antenna Vertical, 8GHz to 18GHz)

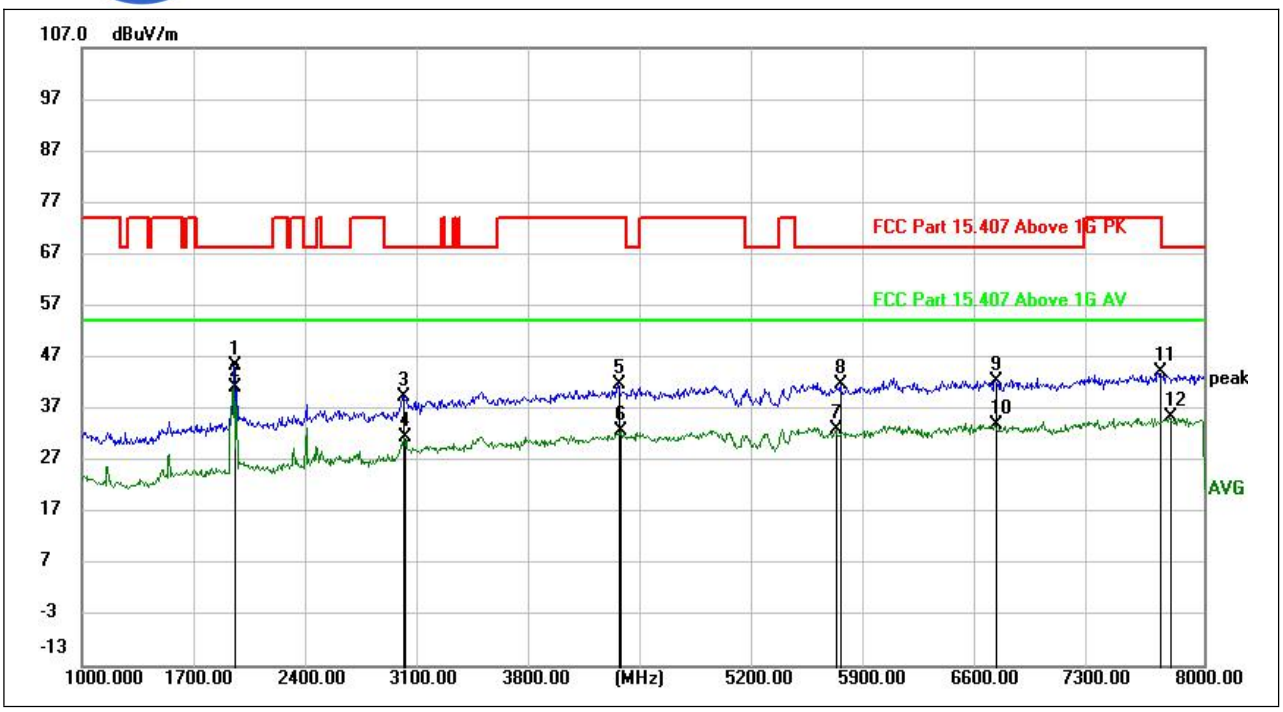
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
9648.000	44.96	1.96	46.92	68.20	-21.28	peak	V
9648.000	40.71	1.96	42.67	54.00	-11.33	AVG	V
10360.000	43.05	2.43	45.48	54.00	-8.52	AVG	V
10371.500	49.83	2.38	52.21	68.20	-15.99	peak	V
12028.000	33.33	4.97	38.30	54.00	-15.70	AVG	V
12048.500	41.42	5.10	46.52	74.00	-27.48	peak	V
14018.500	31.28	8.37	39.65	54.00	-14.35	AVG	V
14042.500	41.71	8.26	49.97	68.20	-18.23	peak	V
15636.000	30.67	10.68	41.35	54.00	-12.65	AVG	V
15703.000	39.78	10.92	50.70	74.00	-23.30	peak	V
17112.500	39.37	12.54	51.91	68.20	-16.29	peak	V
17170.500	29.67	12.80	42.47	54.00	-11.53	AVG	V

Plots for Channel = 40



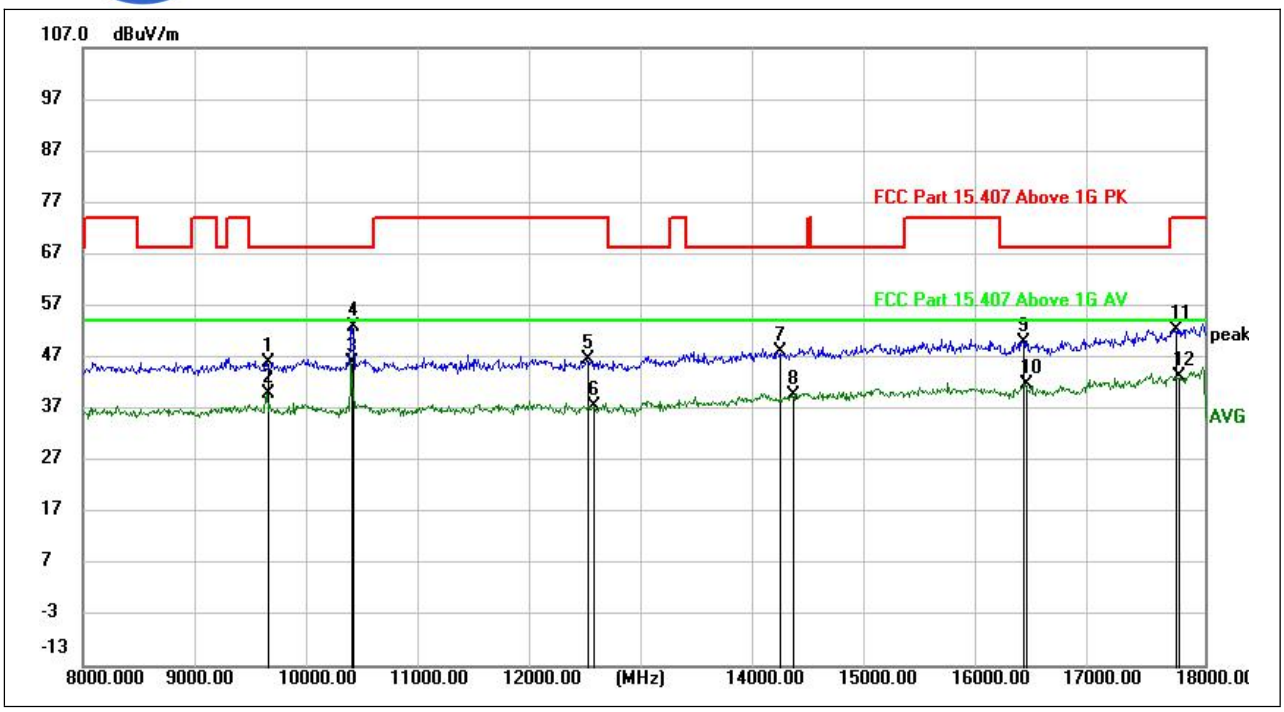
(802.11ac _5200MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
36.6246	3.68	13.39	17.07	40.00	-22.93	peak	H
105.6971	6.80	14.23	21.03	43.50	-22.47	peak	H
162.1835	1.62	11.76	13.38	43.50	-30.12	peak	H
249.9942	3.27	14.89	18.16	46.00	-27.84	peak	H
387.5161	5.25	18.33	23.58	46.00	-22.42	peak	H
500.0380	7.52	22.00	29.52	46.00	-16.48	peak	H



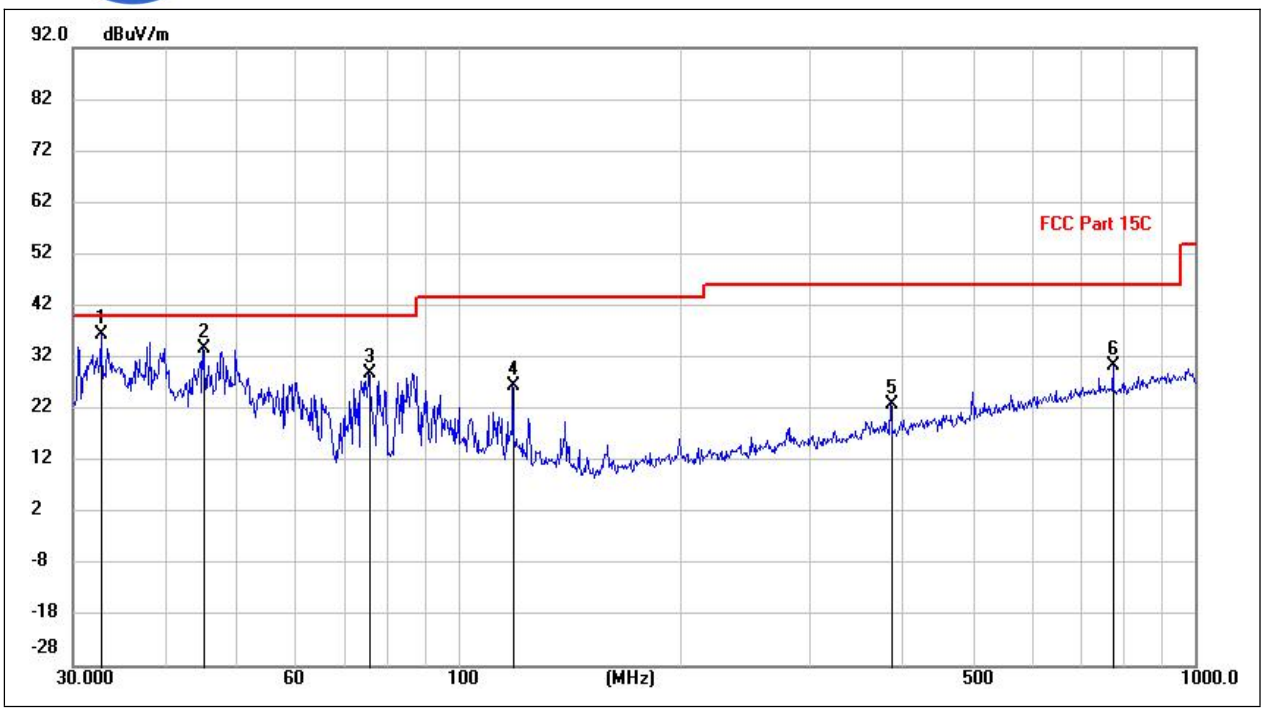
(802.11ac _5200MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1950.950	58.90	-13.65	45.25	68.20	-22.95	peak	H
1950.950	54.72	-13.65	41.07	54.00	-12.93	AVG	H
3005.150	48.67	-9.22	39.45	68.20	-28.75	peak	H
3013.900	40.47	-9.08	31.39	54.00	-22.61	AVG	H
4352.650	45.96	-4.19	41.77	74.00	-32.23	peak	H
4364.900	36.86	-4.27	32.59	54.00	-21.41	AVG	H
5706.800	36.37	-3.46	32.91	54.00	-21.09	AVG	H
5734.800	45.09	-3.36	41.73	68.20	-26.47	peak	H
6703.950	44.47	-2.24	42.23	68.20	-25.97	peak	H
6703.950	36.04	-2.24	33.80	54.00	-20.20	AVG	H
7723.150	45.03	-0.92	44.11	74.00	-29.89	peak	H
7786.500	36.40	-0.87	35.53	54.00	-18.47	AVG	H



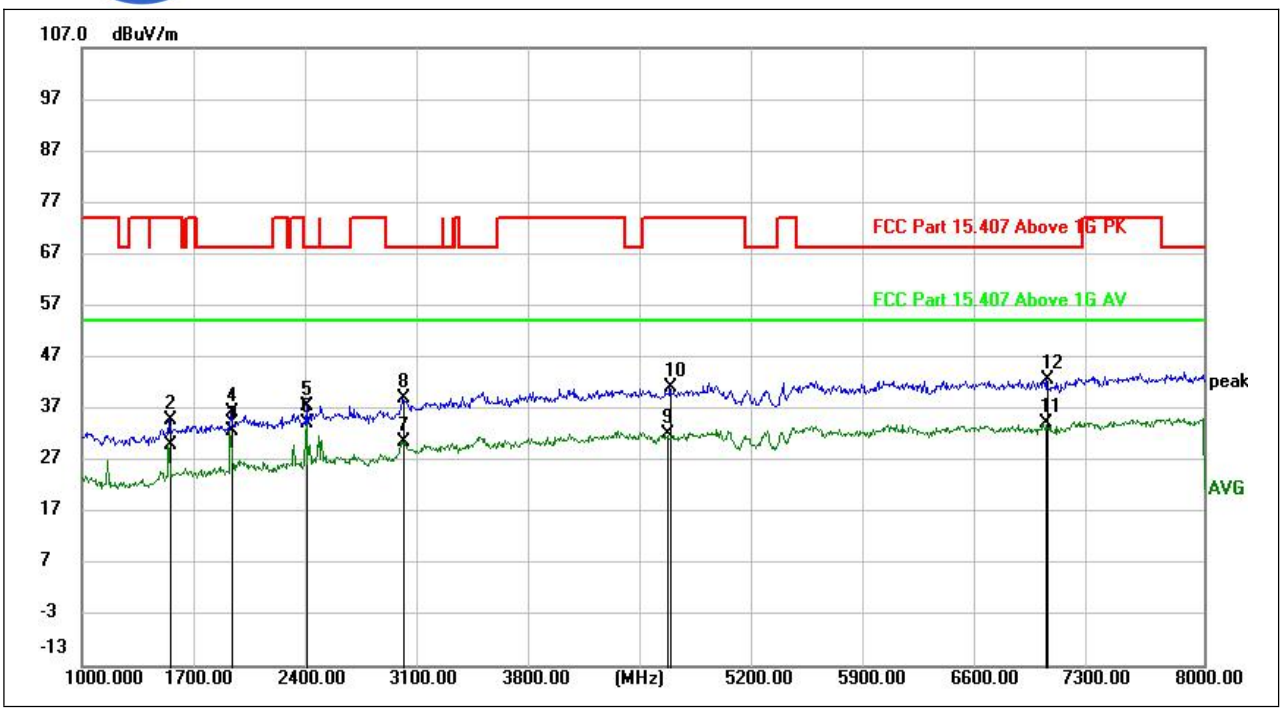
(802.11ac_5200MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
9648.000	44.03	1.96	45.99	68.20	-22.21	peak	H
9648.000	37.98	1.96	39.94	54.00	-14.06	AVG	H
10400.000	43.47	2.38	45.85	54.00	-8.15	AVG	H
10409.500	50.41	2.48	52.89	68.20	-15.31	peak	H
12496.500	41.41	5.22	46.63	74.00	-27.37	peak	H
12556.500	32.84	4.79	37.63	54.00	-16.37	AVG	H
14205.000	39.77	8.31	48.08	68.20	-20.12	peak	H
14326.000	30.85	8.78	39.63	54.00	-14.37	AVG	H
16385.500	38.53	11.47	50.00	68.20	-18.20	peak	H
16402.500	30.59	11.23	41.82	54.00	-12.18	AVG	H
17741.500	37.63	14.77	52.40	74.00	-21.60	peak	H
17767.000	28.56	14.70	43.26	54.00	-10.74	AVG	H



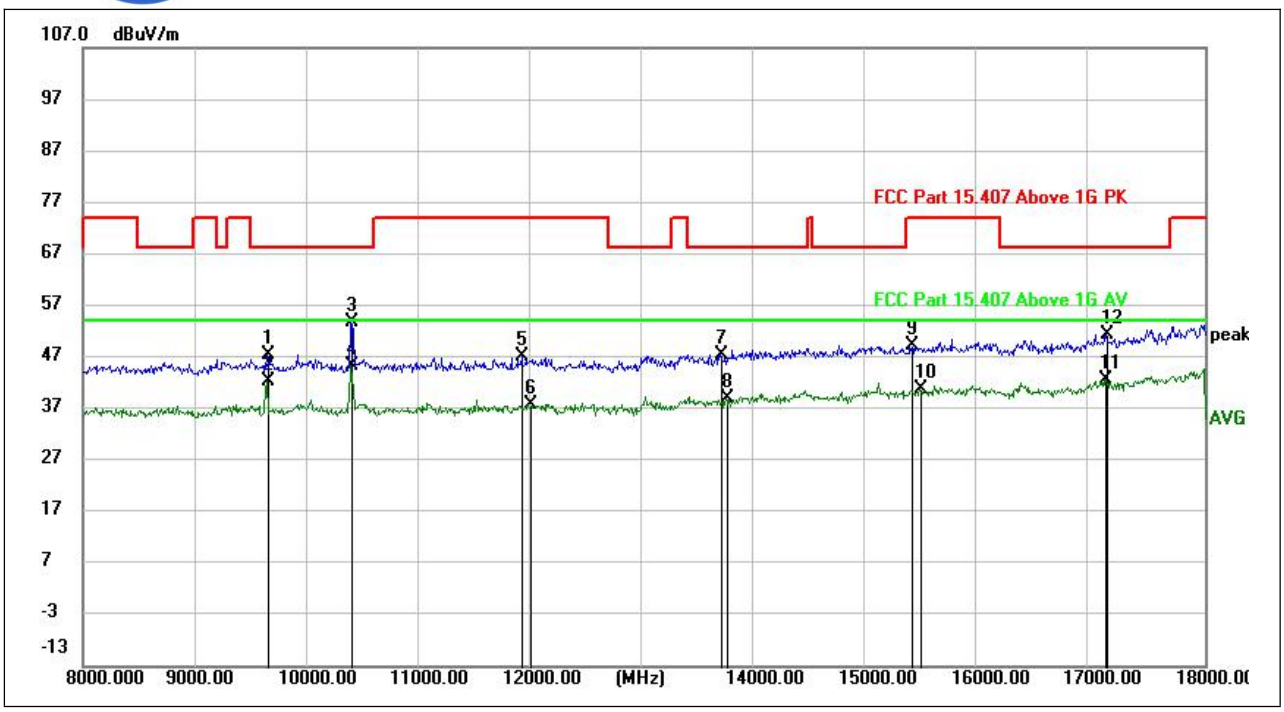
(802.11ac _5200MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
32.8349	23.96	12.34	36.30	40.00	-3.70	peak	V
45.2087	18.14	15.45	33.59	40.00	-6.41	peak	V
75.7911	19.22	9.68	28.90	40.00	-11.10	peak	V
118.6430	13.40	13.10	26.50	43.50	-17.00	peak	V
387.5161	4.50	18.33	22.83	46.00	-23.17	peak	V
775.1091	4.20	26.07	30.27	46.00	-15.73	peak	V



(802.11ac _5200MHz, Antenna Vertical , 1GHz to 8GHz)

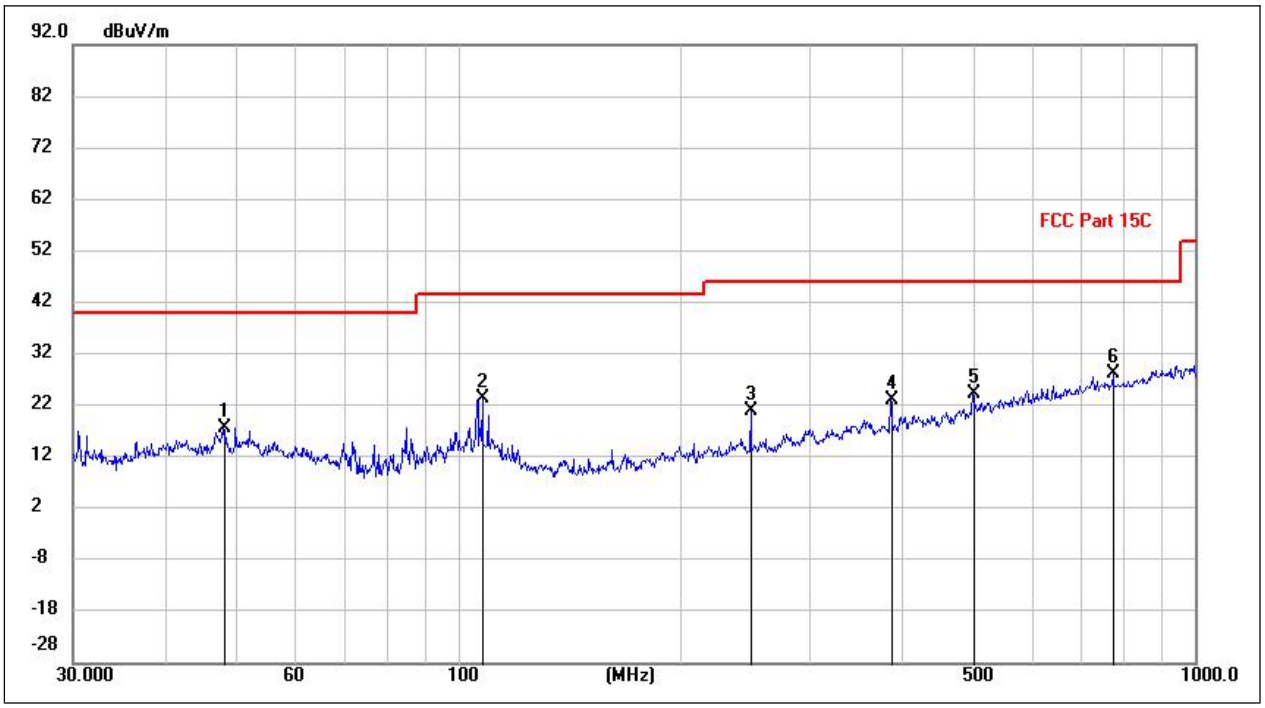
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1549.850	45.13	-15.26	29.87	54.00	-24.13	AVG	V
1550.200	50.15	-15.25	34.90	74.00	-39.10	peak	V
1937.300	46.68	-14.15	32.53	54.00	-21.47	AVG	V
1937.650	50.31	-14.14	36.17	68.20	-32.03	peak	V
2401.750	49.80	-12.20	37.60	68.20	-30.60	peak	V
2401.750	46.30	-12.20	34.10	54.00	-19.90	AVG	V
3003.750	37.74	-7.11	30.63	54.00	-23.37	AVG	V
3009.000	46.15	-7.27	38.88	68.20	-29.32	peak	V
4647.350	36.66	-4.54	32.12	54.00	-21.88	AVG	V
4671.850	45.50	-4.44	41.06	74.00	-32.94	peak	V
7008.450	35.94	-1.79	34.15	54.00	-19.85	AVG	V
7021.050	44.58	-1.81	42.77	68.20	-25.43	peak	V



(802.11a _5200MHz, Antenna Vertical, 8GHz to 18GHz)

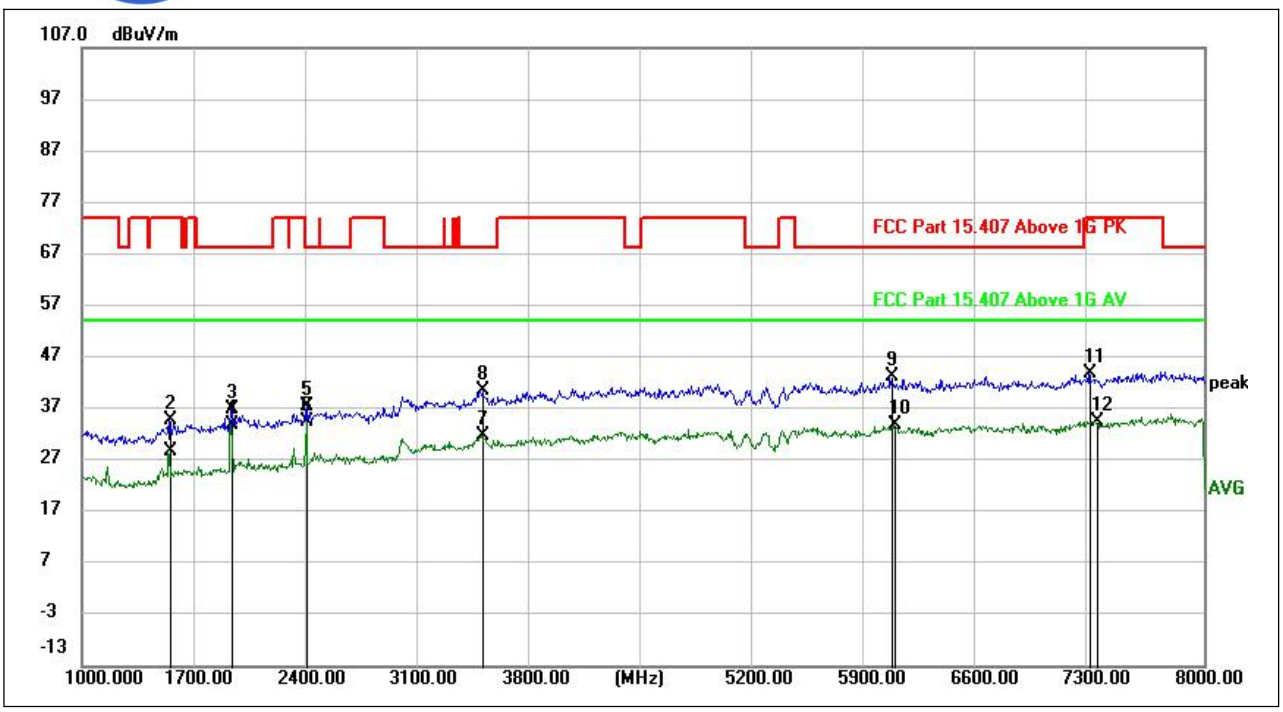
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
9648.000	45.43	1.96	47.39	68.20	-20.81	peak	V
9648.000	40.51	1.96	42.47	54.00	-11.53	AVG	V
10399.500	51.35	2.37	53.72	68.20	-14.48	peak	V
10399.500	42.97	2.37	45.34	54.00	-8.66	AVG	V
11916.500	42.84	4.23	47.07	74.00	-26.93	peak	V
11985.000	33.31	4.61	37.92	54.00	-16.08	AVG	V
13690.000	40.28	7.25	47.53	68.20	-20.67	peak	V
13740.000	31.85	7.15	39.00	54.00	-15.00	AVG	V
15385.500	39.06	10.28	49.34	74.00	-24.66	peak	V
15470.000	30.28	10.42	40.70	54.00	-13.30	AVG	V
17111.000	30.25	12.52	42.77	54.00	-11.23	AVG	V
17124.500	38.76	12.64	51.40	68.20	-16.80	peak	V

Plot for Channel = 48



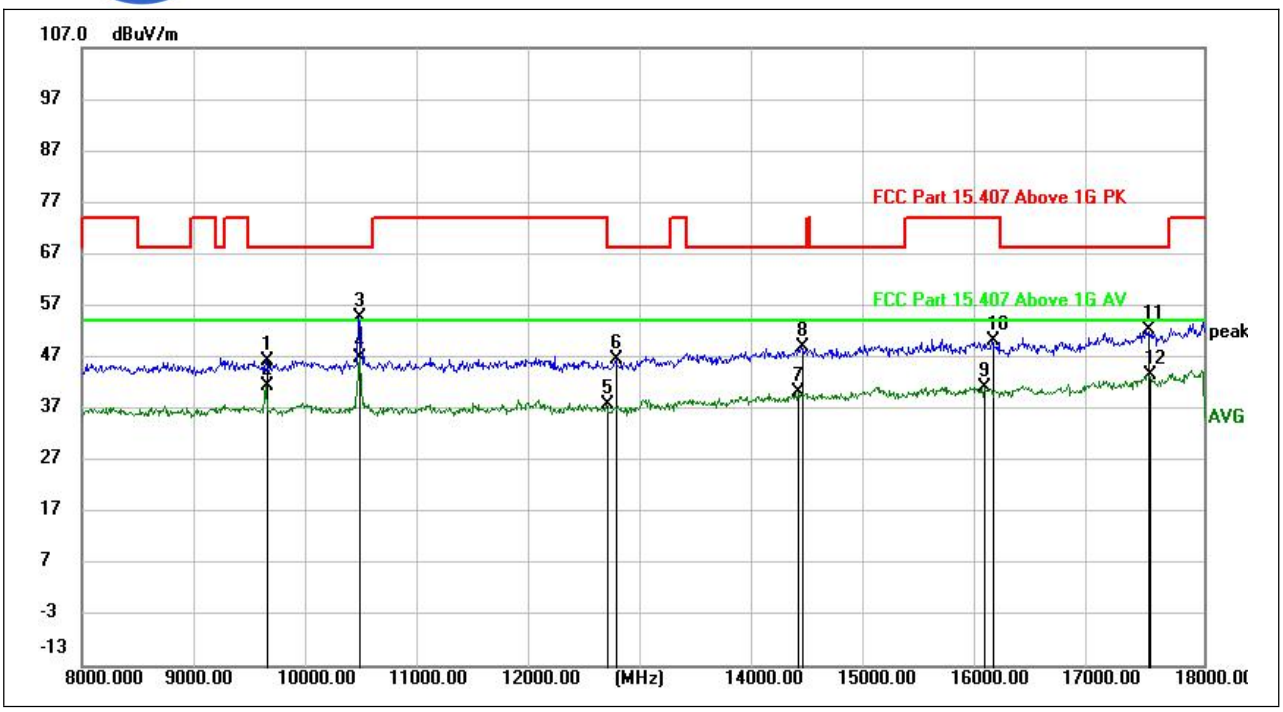
(802.11ac _5240MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
48.1288	2.27	15.52	17.79	40.00	-22.21	peak	H
107.9634	8.76	14.58	23.34	43.50	-20.16	peak	H
249.9942	6.21	14.89	21.10	46.00	-24.90	peak	H
387.5161	4.83	18.33	23.16	46.00	-22.84	peak	H
500.0380	2.38	22.00	24.38	46.00	-21.62	peak	H
774.9733	2.03	26.08	28.11	46.00	-17.89	peak	H



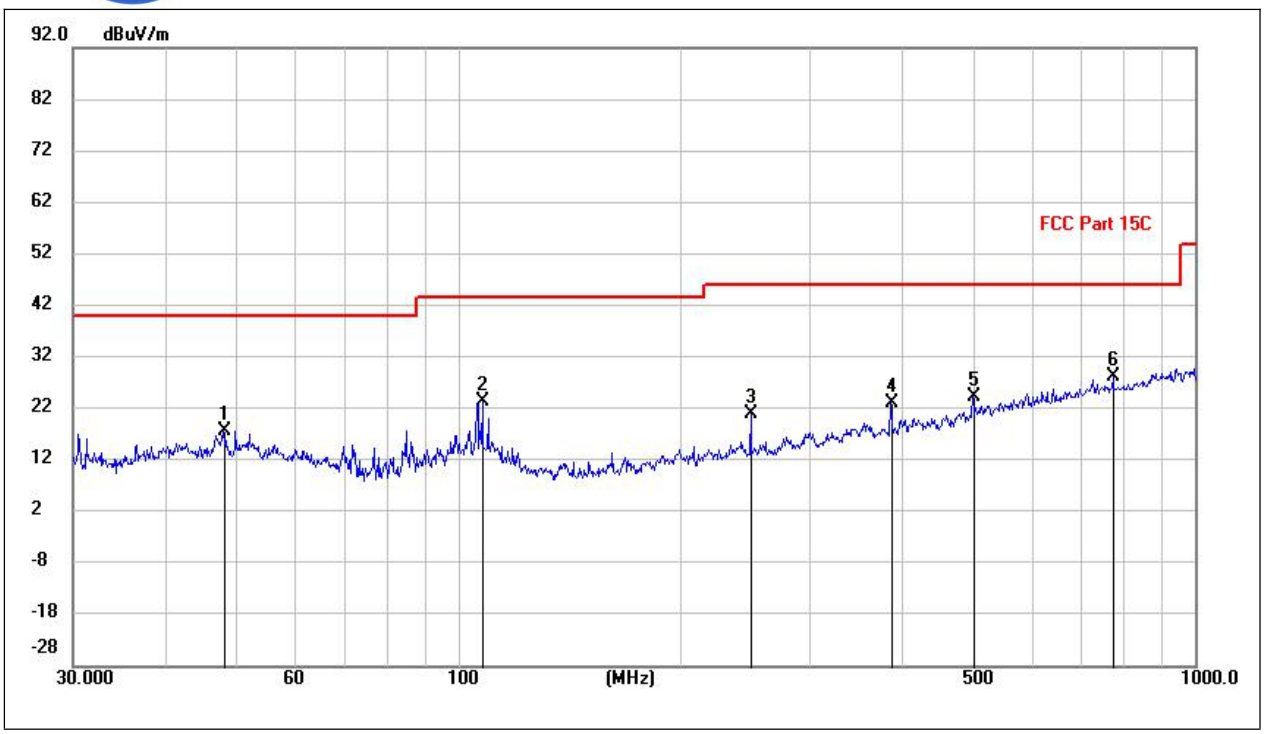
(802.11ac _5240MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1549.850	43.91	-15.26	28.65	54.00	-25.35	AVG	H
1550.200	49.96	-15.25	34.71	74.00	-39.29	peak	H
1937.300	51.18	-14.15	37.03	68.20	-31.17	peak	H
1937.300	48.07	-14.15	33.92	54.00	-20.08	AVG	H
2401.750	49.58	-12.20	37.38	68.20	-30.82	peak	H
2401.750	46.62	-12.20	34.42	54.00	-19.58	AVG	H
3498.300	40.30	-8.48	31.82	54.00	-22.18	AVG	H
3506.000	49.03	-8.49	40.54	68.20	-27.66	peak	H
6049.450	46.81	-3.47	43.34	68.20	-24.86	peak	H
6070.100	37.12	-3.37	33.75	54.00	-20.25	AVG	H
7291.250	45.07	-1.30	43.77	74.00	-30.23	peak	H
7329.400	36.00	-1.37	34.63	54.00	-19.37	AVG	H



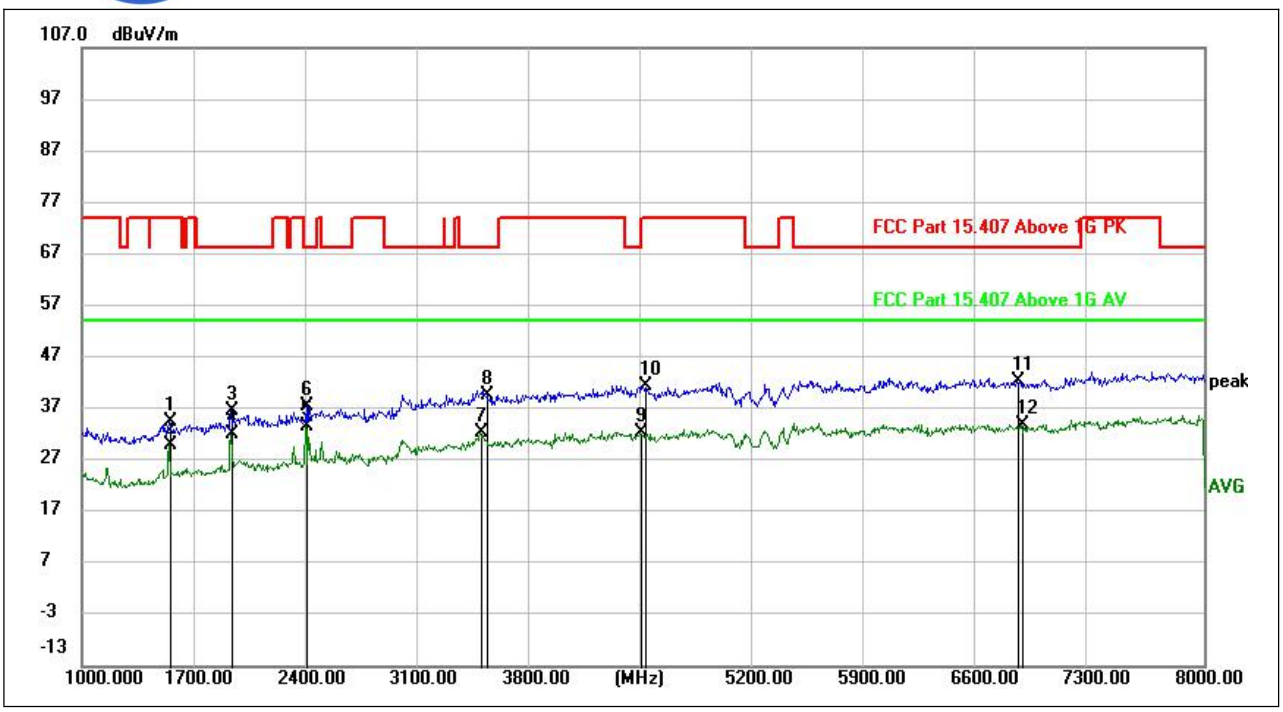
(802.11ac _5240MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
9648.000	44.27	1.96	46.23	68.20	-21.97	peak	H
9648.000	39.56	1.96	41.52	54.00	-12.48	AVG	H
10476.500	51.73	3.06	54.79	68.20	-13.41	peak	H
10480.000	43.90	3.07	46.97	54.00	-7.03	AVG	H
12675.500	33.04	4.86	37.90	54.00	-16.10	AVG	H
12770.000	41.23	5.18	46.41	68.20	-21.79	peak	H
14388.000	31.14	9.03	40.17	54.00	-13.83	AVG	H
14420.000	40.20	8.71	48.91	68.20	-19.29	peak	H
16048.500	29.59	11.41	41.00	54.00	-13.00	AVG	H
16122.000	38.85	11.26	50.11	74.00	-23.89	peak	H
17501.000	38.45	13.76	52.21	68.20	-15.99	peak	H
17515.500	29.75	13.85	43.60	54.00	-10.40	AVG	H



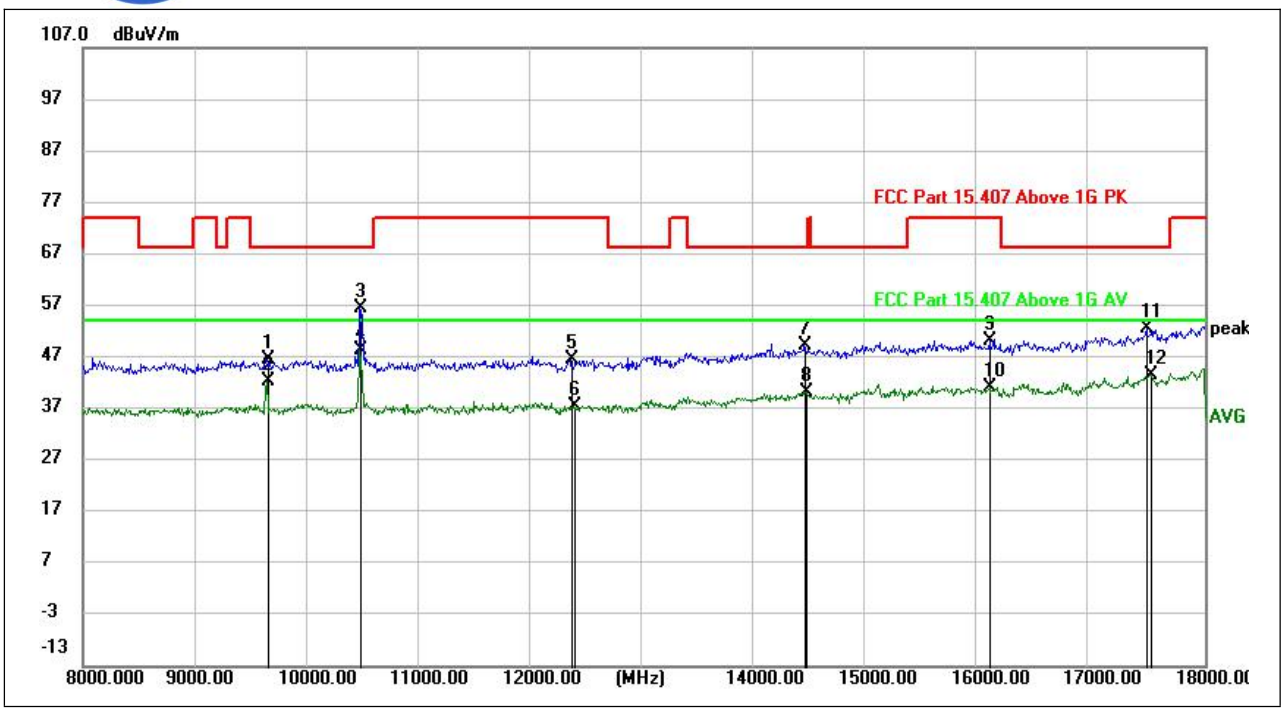
(802.11ac _5240MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
48.1288	2.27	15.52	17.79	40.00	-22.21	peak	V
107.9634	8.76	14.58	23.34	43.50	-20.16	peak	V
249.9942	6.21	14.89	21.10	46.00	-24.90	peak	V
387.5161	4.83	18.33	23.16	46.00	-22.84	peak	V
500.0380	2.38	22.00	24.38	46.00	-21.62	peak	V
774.9733	2.03	26.08	28.11	46.00	-17.89	peak	V



(802.11ac _5240MHz, Antenna Vertical, 1GHz to 8GHz)

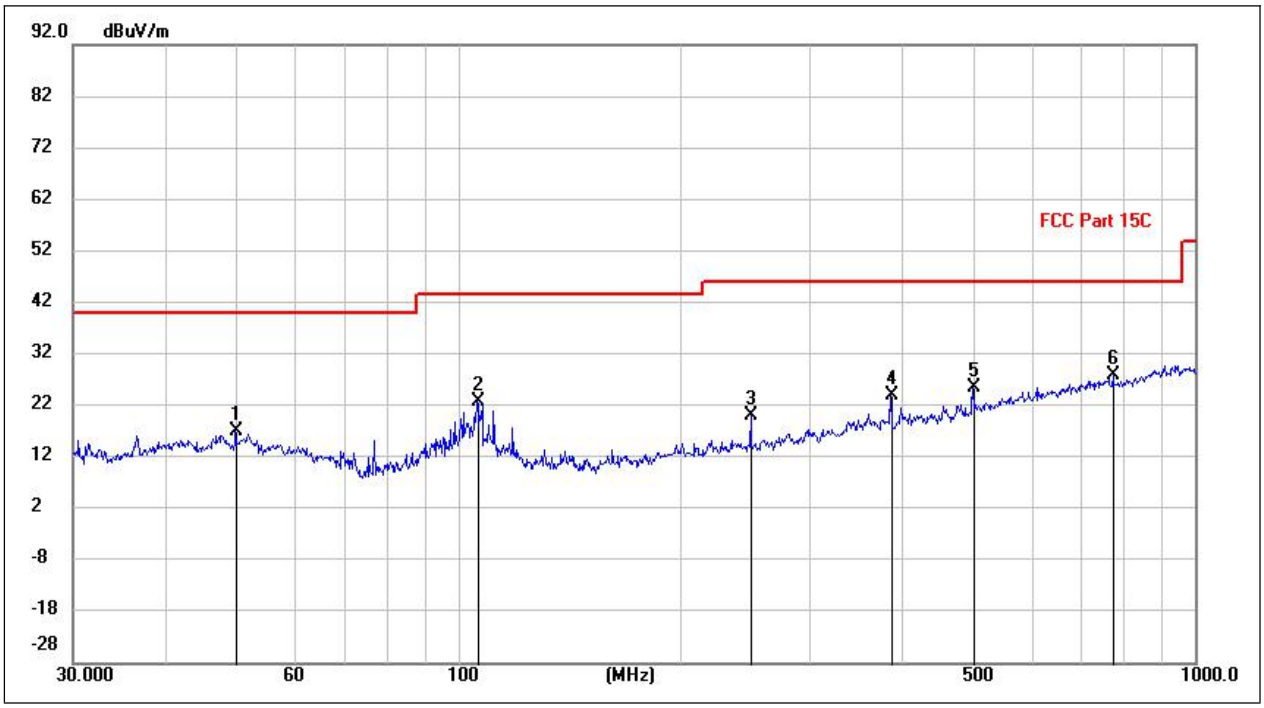
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1549.850	49.71	-15.26	34.45	74.00	-39.55	peak	V
1549.850	45.11	-15.26	29.85	54.00	-24.15	AVG	V
1937.300	50.86	-14.15	36.71	68.20	-31.49	peak	V
1937.300	46.28	-14.15	32.13	54.00	-21.87	AVG	V
2401.750	45.81	-12.20	33.61	54.00	-20.39	AVG	V
2402.100	49.75	-12.20	37.55	68.20	-30.65	peak	V
3492.000	38.06	-5.82	32.24	54.00	-21.76	AVG	V
3529.800	46.65	-6.90	39.75	68.20	-28.45	peak	V
4491.250	36.35	-4.11	32.24	54.00	-21.76	AVG	V
4509.450	45.64	-4.30	41.34	74.00	-32.66	peak	V
6838.000	44.52	-2.13	42.39	68.20	-25.81	peak	V
6865.650	35.91	-2.16	33.75	54.00	-20.25	AVG	V



(802.11ac _5240MHz, Antenna Vertical, 8GHz to 18GHz)

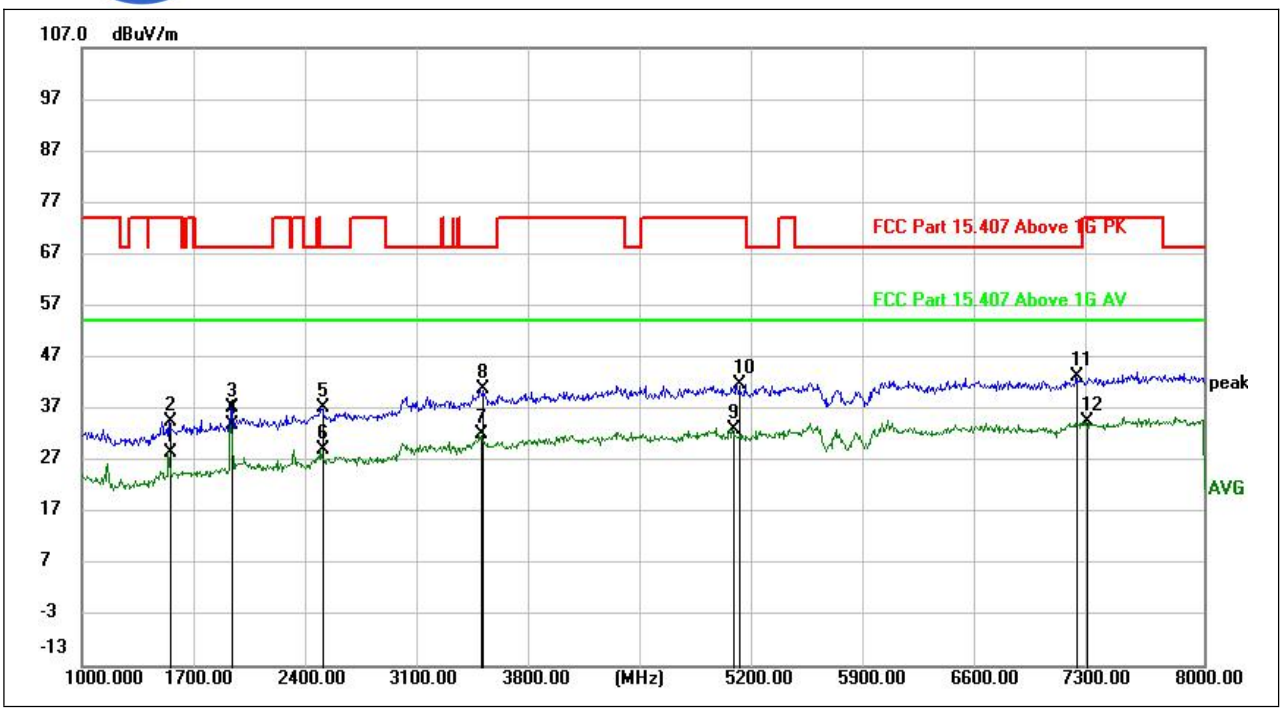
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
9648.000	44.51	1.96	46.47	68.20	-21.73	peak	V
9648.000	40.24	1.96	42.20	54.00	-11.80	AVG	V
10479.500	52.67	3.70	56.37	68.20	-11.83	peak	V
10479.500	44.58	3.70	48.28	54.00	-5.72	AVG	V
12350.500	41.70	4.81	46.51	74.00	-27.49	peak	V
12385.500	32.94	4.50	37.44	54.00	-16.56	AVG	V
14433.000	40.29	8.94	49.23	68.20	-18.97	peak	V
14443.000	31.25	8.96	40.21	54.00	-13.79	AVG	V
16089.000	38.89	11.24	50.13	74.00	-23.87	peak	V
16089.000	29.92	11.24	41.16	54.00	-12.84	AVG	V
17488.500	38.16	14.47	52.63	68.20	-15.57	peak	V
17513.000	28.82	14.76	43.58	54.00	-10.42	AVG	V

Plot for Channel = 149



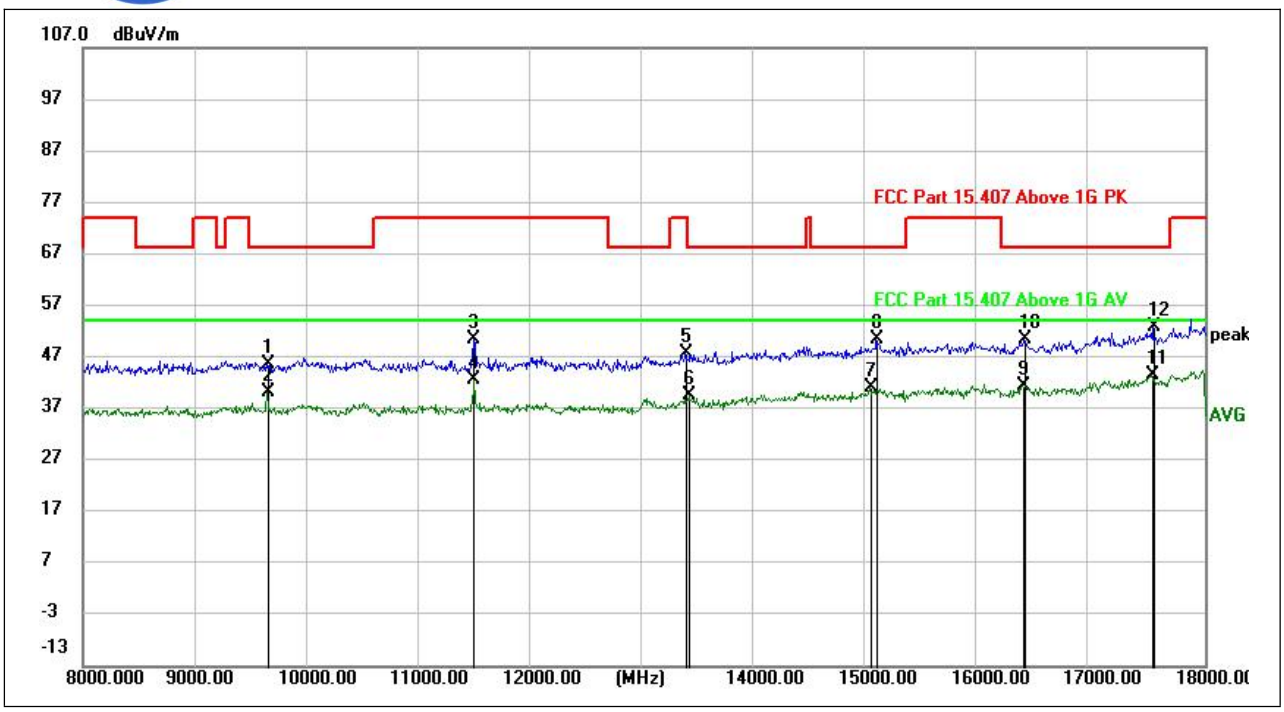
(802.11ac _5745MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
50.0215	0.80	16.19	16.99	40.00	-23.01	peak	H
106.2545	8.41	14.32	22.73	43.50	-20.77	peak	H
249.9942	5.08	14.89	19.97	46.00	-26.03	peak	H
387.5161	5.68	18.33	24.01	46.00	-21.99	peak	H
500.0380	3.57	22.00	25.57	46.00	-20.43	peak	H
775.1091	1.99	26.07	28.06	46.00	-17.94	peak	H



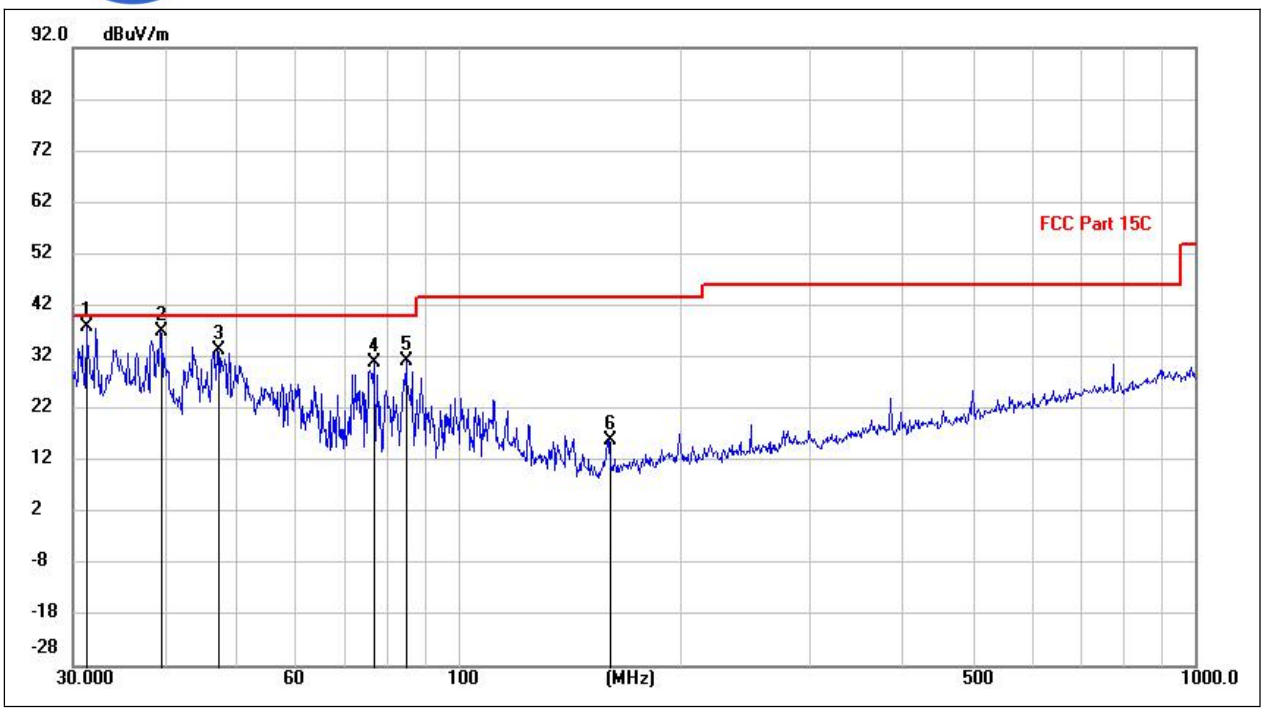
(802.11a _5745MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1549.850	43.73	-15.26	28.47	54.00	-25.53	AVG	H
1550.200	49.80	-15.25	34.55	74.00	-39.45	peak	H
1937.300	51.34	-14.15	37.19	68.20	-31.01	peak	H
1937.300	48.06	-14.15	33.91	54.00	-20.09	AVG	H
2499.750	49.37	-12.19	37.18	74.00	-36.82	peak	H
2499.750	41.13	-12.19	28.94	54.00	-25.06	AVG	H
3485.700	39.95	-8.02	31.93	54.00	-22.07	AVG	H
3495.500	49.07	-8.38	40.69	68.20	-27.51	peak	H
5067.000	37.00	-4.14	32.86	54.00	-21.14	AVG	H
5095.700	45.88	-4.09	41.79	74.00	-32.21	peak	H
7207.250	44.75	-1.50	43.25	68.20	-24.95	peak	H
7267.450	35.84	-1.37	34.47	54.00	-19.53	AVG	H



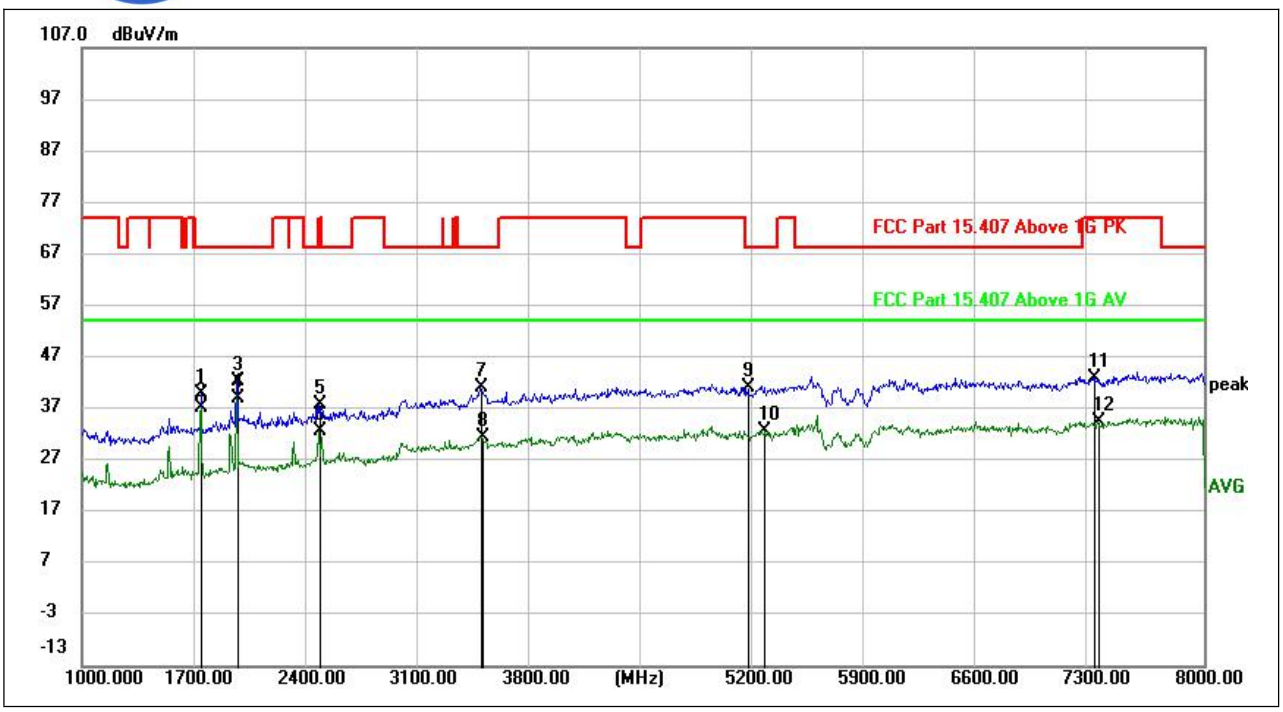
(802.11ac _5745MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
9648.000	43.82	1.96	45.78	68.20	-22.42	peak	H
9648.000	38.21	1.96	40.17	54.00	-13.83	AVG	H
11490.000	47.00	3.47	50.47	74.00	-23.53	peak	H
11490.000	39.15	3.47	42.62	54.00	-11.38	AVG	H
13380.000	41.02	6.62	47.64	74.00	-26.36	peak	H
13408.000	32.94	6.62	39.56	54.00	-14.44	AVG	H
15022.000	30.83	10.27	41.10	54.00	-12.90	AVG	H
15076.000	40.11	10.50	50.61	68.20	-17.59	peak	H
16383.500	29.93	11.48	41.41	54.00	-12.59	AVG	H
16392.500	39.05	11.37	50.42	68.20	-17.78	peak	H
17534.500	29.81	13.67	43.48	54.00	-10.52	AVG	H
17545.000	39.38	13.58	52.96	68.20	-15.24	peak	H



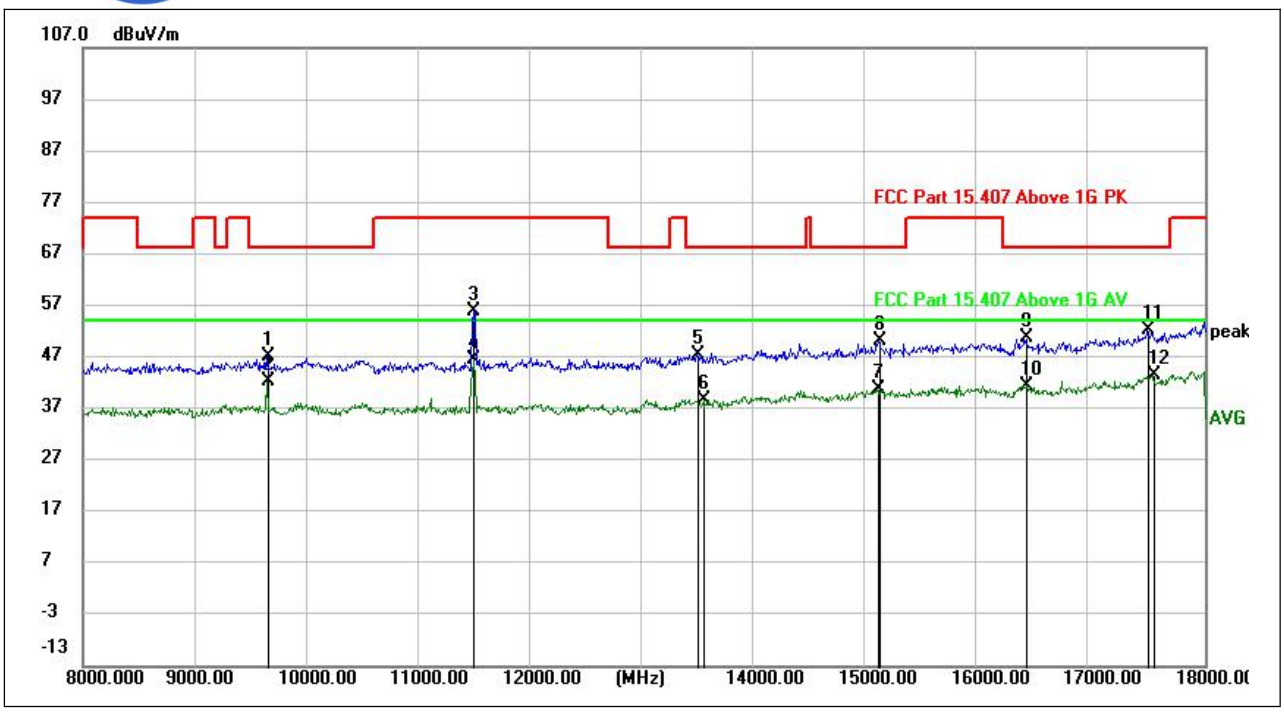
(802.11ac _5745MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
31.3387	25.93	12.04	37.97	40.00	-2.03	peak	V
39.5410	21.89	15.01	36.90	40.00	-3.10	peak	V
47.2095	17.94	15.49	33.43	40.00	-6.57	peak	V
77.0235	21.45	9.54	30.99	40.00	-9.01	peak	V
85.2532	20.44	10.74	31.18	40.00	-8.82	peak	V
160.6834	3.71	12.08	15.79	43.50	-27.71	peak	V



(802.11ac _5745MHz, Antenna Vertical, 1GHz to 8GHz)

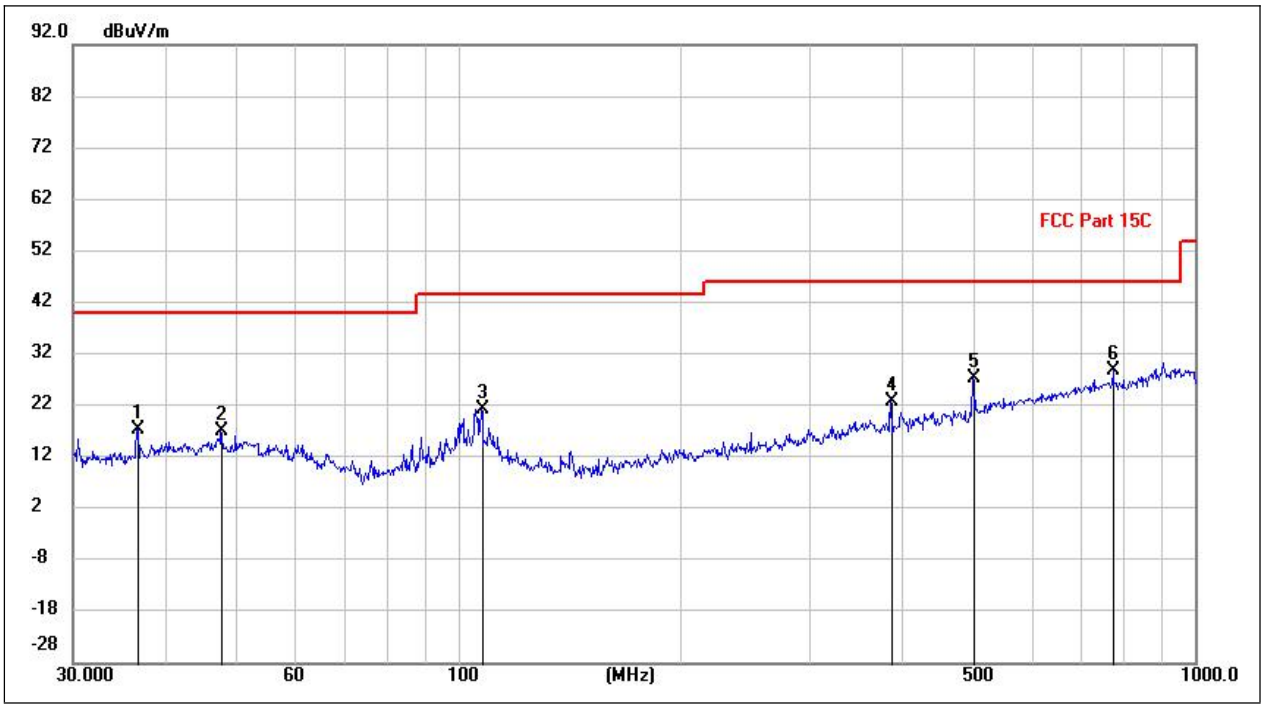
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1746.550	54.15	-14.36	39.79	68.20	-28.41	peak	V
1746.550	51.47	-14.36	37.11	54.00	-16.89	AVG	V
1969.150	55.40	-13.18	42.22	68.20	-25.98	peak	V
1969.150	52.21	-13.18	39.03	54.00	-14.97	AVG	V
2479.800	48.89	-11.21	37.68	68.20	-30.52	peak	V
2479.800	44.03	-11.21	32.82	54.00	-21.18	AVG	V
3491.300	46.85	-5.83	41.02	68.20	-27.18	peak	V
3501.450	37.31	-5.73	31.58	54.00	-22.42	AVG	V
5154.500	45.05	-3.98	41.07	68.20	-27.13	peak	V
5250.050	36.47	-3.80	32.67	54.00	-21.33	AVG	V
7312.250	44.23	-1.31	42.92	74.00	-31.08	peak	V
7339.900	35.98	-1.41	34.57	54.00	-19.43	AVG	V



(802.11ac _5745MHz, Antenna Vertical, 8GHz to 18GHz)

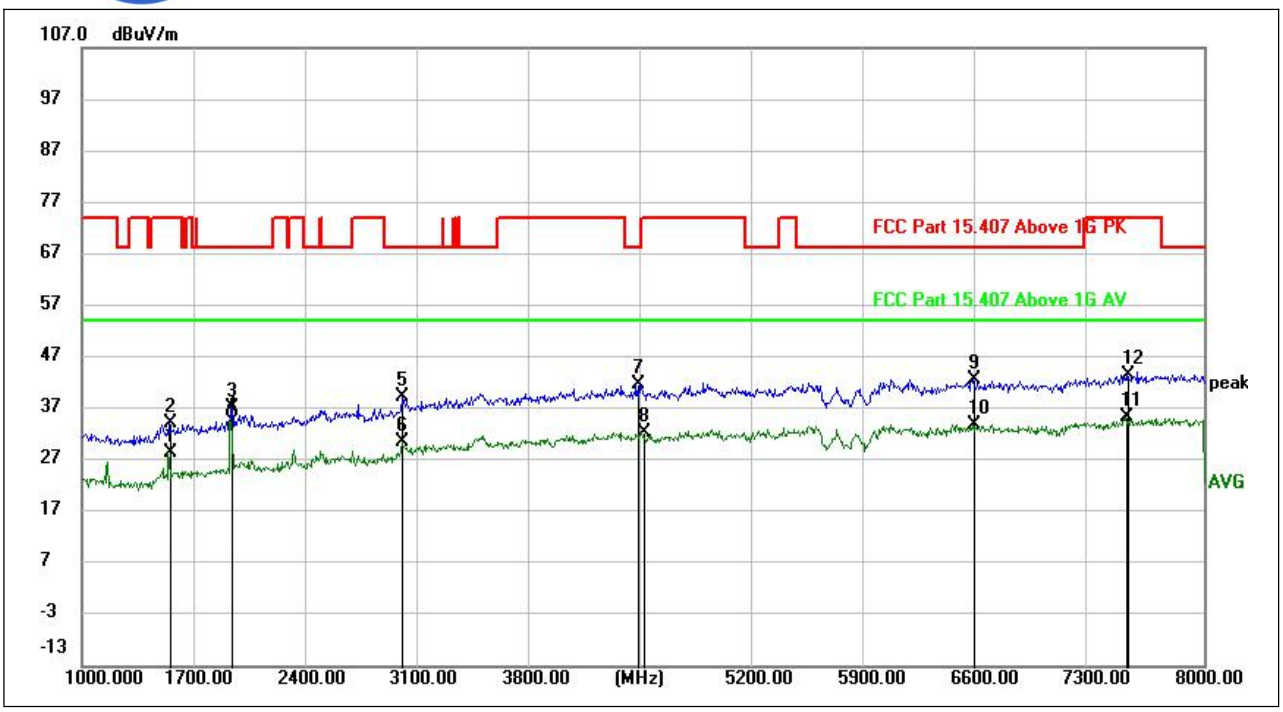
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
9647.500	45.08	1.96	47.04	68.20	-21.16	peak	V
9647.500	40.25	1.96	42.21	54.00	-11.79	AVG	V
11490.000	51.92	3.83	55.75	74.00	-18.25	peak	V
11490.000	42.86	3.83	46.69	54.00	-7.31	AVG	V
13479.000	40.96	6.63	47.59	68.20	-20.61	peak	V
13535.500	31.86	6.95	38.81	54.00	-15.19	AVG	V
15085.000	30.55	10.35	40.90	54.00	-13.10	AVG	V
15098.500	39.95	10.15	50.10	68.20	-18.10	peak	V
16401.000	39.53	11.25	50.78	68.20	-17.42	peak	V
16401.000	30.27	11.25	41.52	54.00	-12.48	AVG	V
17496.500	37.58	14.66	52.24	68.20	-15.96	peak	V
17547.000	29.59	14.09	43.68	54.00	-10.32	AVG	V

Plot for Channel = 157



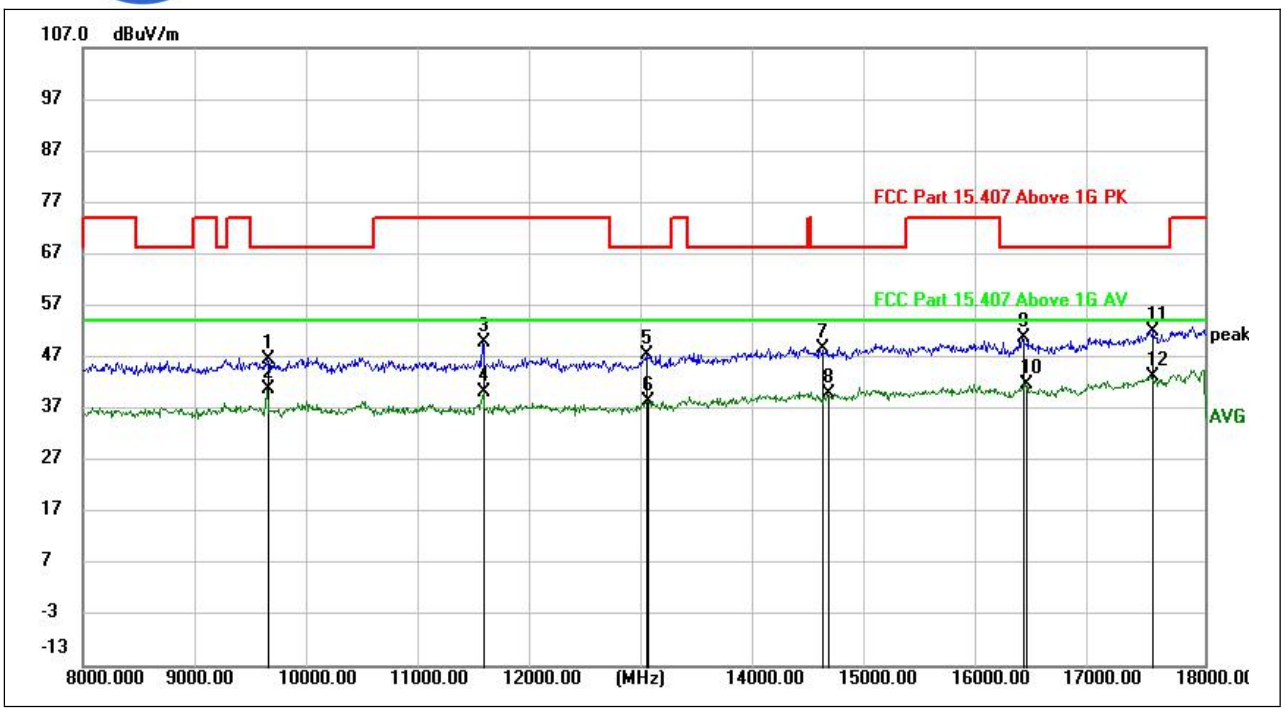
(802.11ac _5785MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
36.7533	3.93	13.46	17.39	40.00	-22.61	peak	H
47.8092	1.49	15.50	16.99	40.00	-23.01	peak	H
107.8121	6.69	14.56	21.25	43.50	-22.25	peak	H
387.5161	4.40	18.33	22.73	46.00	-23.27	peak	H
500.0380	5.30	22.00	27.30	46.00	-18.70	peak	H
775.1091	2.77	26.07	28.84	46.00	-17.16	peak	H



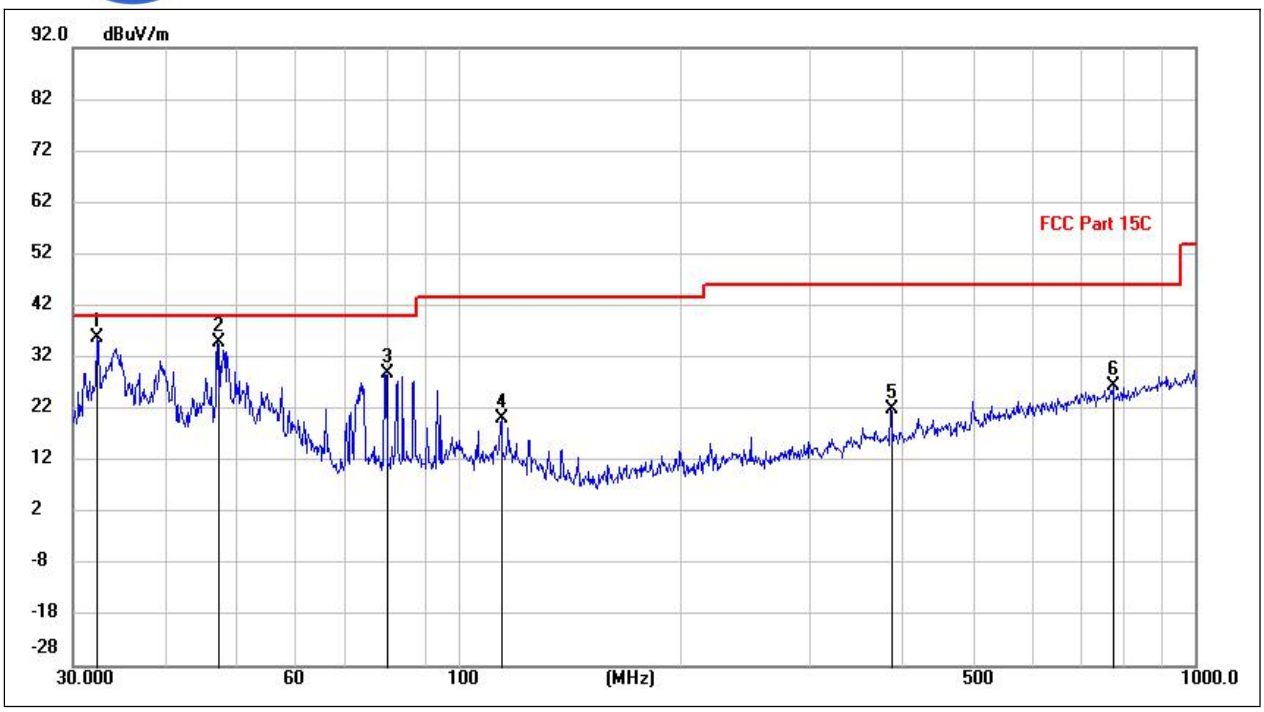
(802.11ac _5785MHz, Antenna Horizontal, 1GHz to 8GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1549.850	43.84	-15.26	28.58	54.00	-25.42	AVG	H
1550.200	49.39	-15.25	34.14	74.00	-39.86	peak	H
1937.650	51.32	-14.14	37.18	68.20	-31.02	peak	H
1937.650	48.57	-14.14	34.43	54.00	-19.57	AVG	H
3000.600	48.54	-9.29	39.25	68.20	-28.95	peak	H
3000.600	39.74	-9.29	30.45	54.00	-23.55	AVG	H
4466.400	47.12	-5.38	41.74	68.20	-26.46	peak	H
4505.250	38.65	-6.17	32.48	54.00	-21.52	AVG	H
6567.100	44.89	-2.40	42.49	68.20	-25.71	peak	H
6567.100	36.28	-2.40	33.88	54.00	-20.12	AVG	H
7519.100	36.31	-0.93	35.38	54.00	-18.62	AVG	H
7527.850	44.50	-0.91	43.59	74.00	-30.41	peak	H



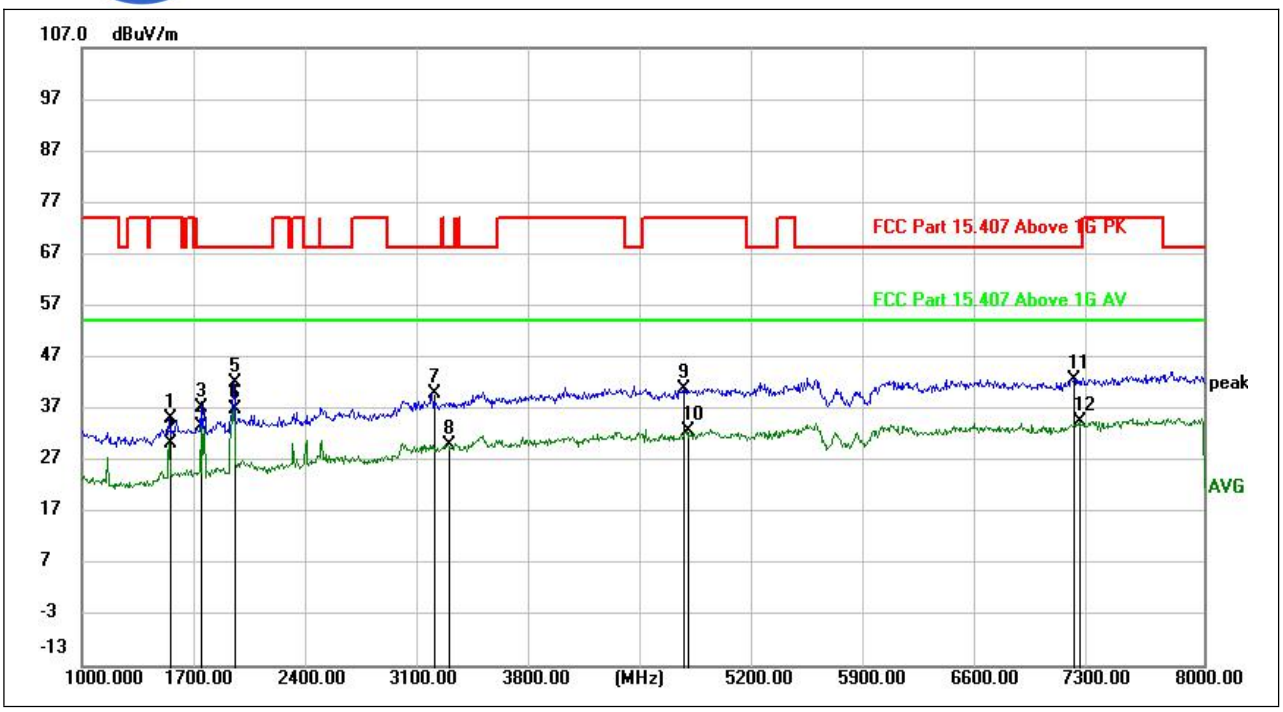
(802.11ac _5785MHz, Antenna Horizontal, 8GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
9648.000	44.64	1.96	46.60	68.20	-21.60	peak	H
9648.000	38.73	1.96	40.69	54.00	-13.31	AVG	H
11569.500	45.82	4.12	49.94	74.00	-24.06	peak	H
11570.500	35.95	4.13	40.08	54.00	-13.92	AVG	H
13028.500	41.21	6.17	47.38	68.20	-20.82	peak	H
13038.000	32.29	6.23	38.52	54.00	-15.48	AVG	H
14588.000	39.78	8.78	48.56	68.20	-19.64	peak	H
14649.000	30.80	9.17	39.97	54.00	-14.03	AVG	H
16382.000	39.29	11.48	50.77	68.20	-17.43	peak	H
16404.500	30.64	11.20	41.84	54.00	-12.16	AVG	H
17522.000	38.31	13.80	52.11	68.20	-16.09	peak	H
17528.000	29.41	13.74	43.15	54.00	-10.85	AVG	H



(802.11ac _5785MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
32.3605	23.45	12.20	35.65	40.00	-4.35	peak	V
47.2261	19.25	15.49	34.74	40.00	-5.26	peak	V
79.8003	17.99	10.84	28.83	40.00	-11.17	peak	V
114.5347	6.91	13.19	20.10	43.50	-23.40	peak	V
387.5161	3.48	18.33	21.81	46.00	-24.19	peak	V
775.1091	0.34	26.07	26.41	46.00	-19.59	peak	V



(802.11ac _5785MHz, Antenna Vertical, 1GHz to 8GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Pol
1549.850	50.23	-15.26	34.97	74.00	-39.03	peak	V
1549.850	45.44	-15.26	30.18	54.00	-23.82	AVG	V
1746.200	51.73	-14.38	37.35	68.20	-30.85	peak	V
1746.200	47.95	-14.38	33.57	54.00	-20.43	AVG	V
1951.650	55.61	-13.62	41.99	68.20	-26.21	peak	V
1951.650	50.42	-13.62	36.80	54.00	-17.20	AVG	V
3191.350	47.93	-8.11	39.82	68.20	-28.38	peak	V
3293.900	37.78	-7.75	30.03	54.00	-23.97	AVG	V
4752.350	45.27	-4.47	40.80	74.00	-33.20	peak	V
4778.250	36.86	-4.15	32.71	54.00	-21.29	AVG	V
7185.200	44.32	-1.55	42.77	68.20	-25.43	peak	V
7229.650	35.88	-1.46	34.42	54.00	-19.58	AVG	V