

## 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);

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

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                        |

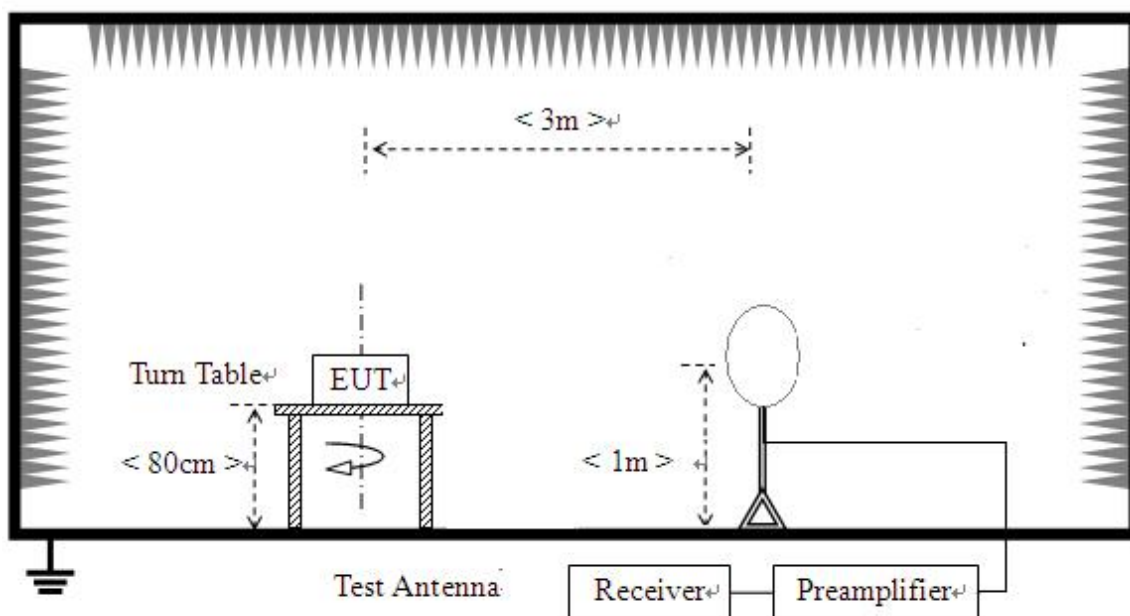
**Note:**

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.

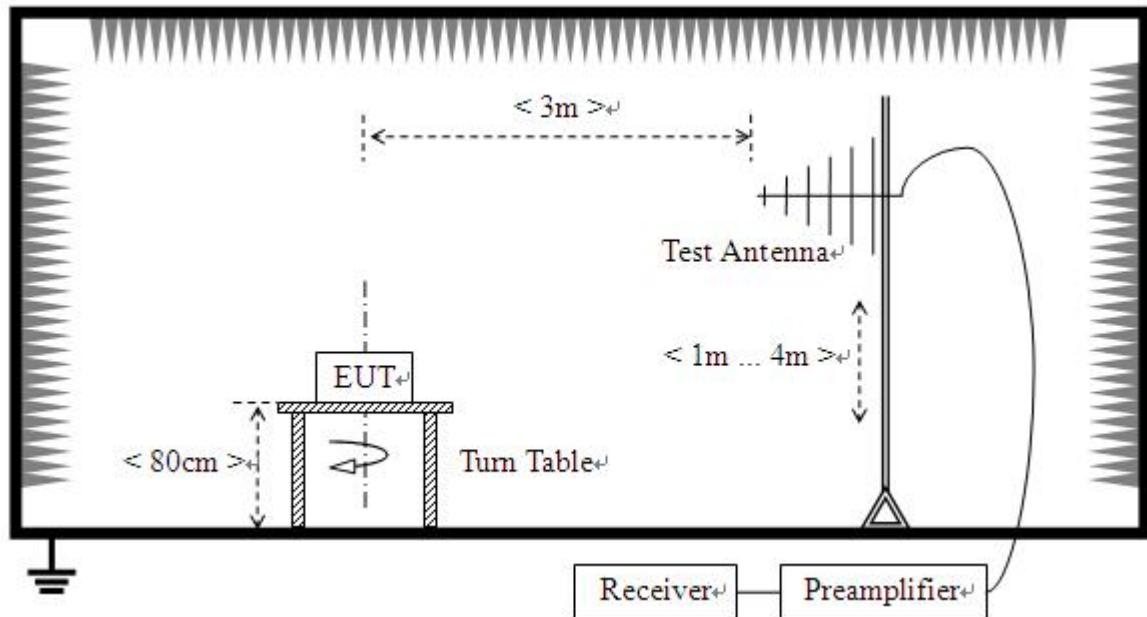
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

**2.8.2. Test Description**
**A. Test Setup:**

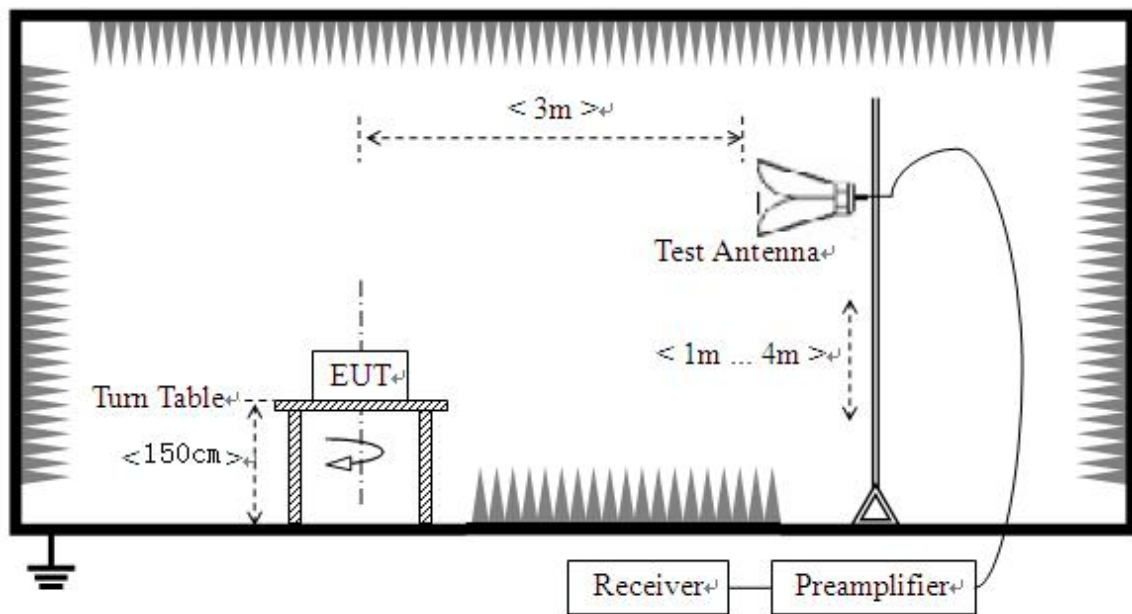
- 1) For radiated emissions from 9kHz to 30MHz



## 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  $\geq 1/T$  (Duty cycle < 98%) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

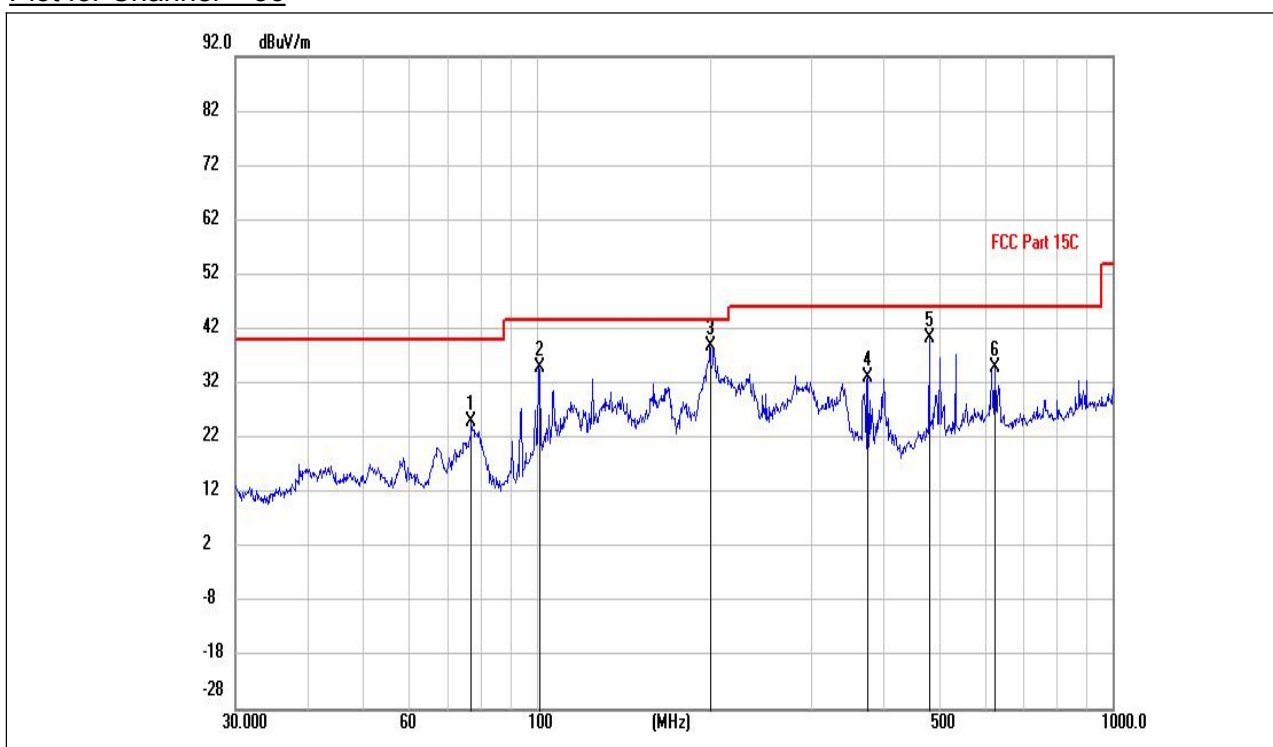
### 2.8.3. Test Result

**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.

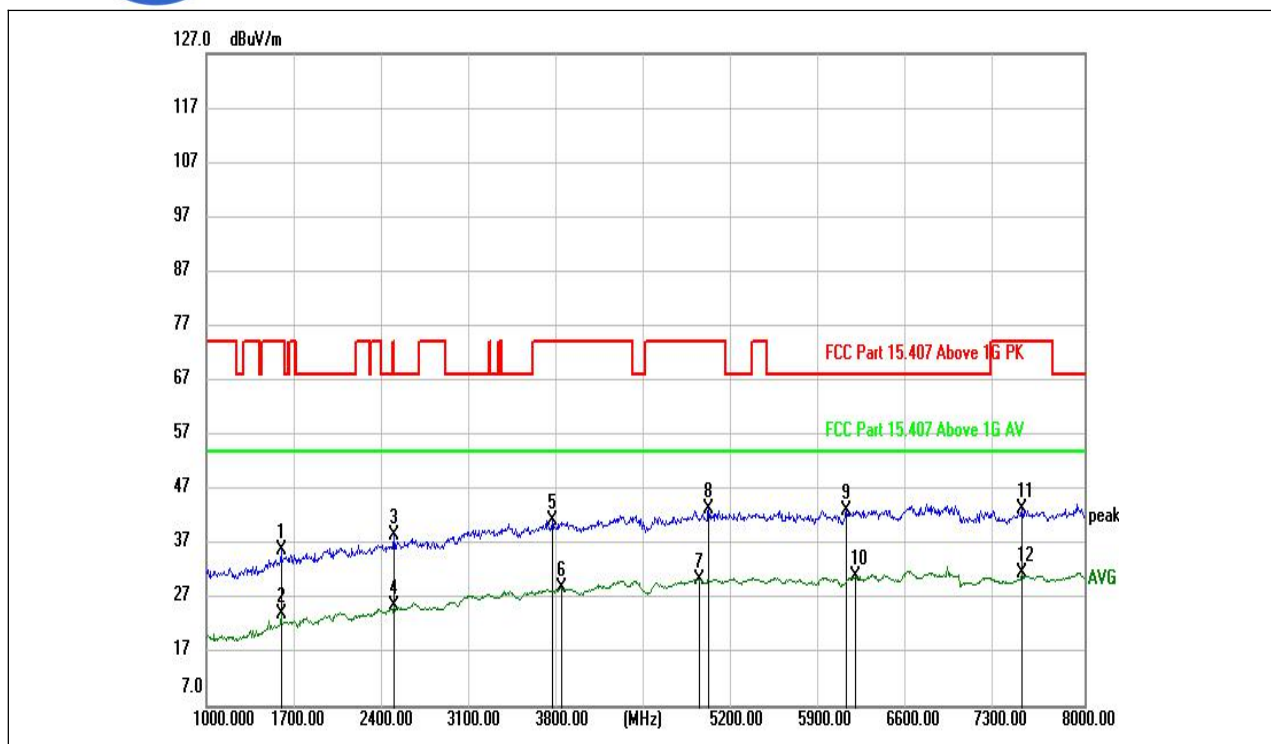
### 802.11a Test mode

Plot for Channel = 36



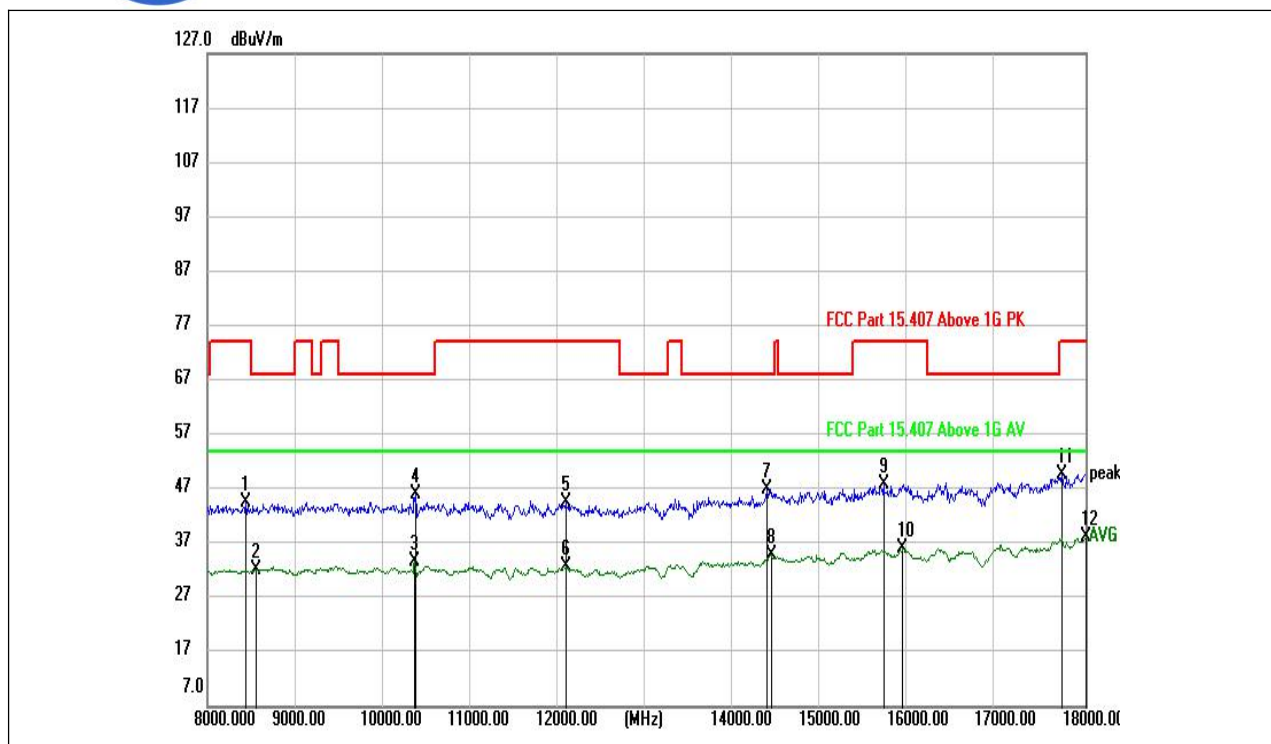
(802.11a \_5180MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 77.0505         | 24.96            | ---                | 40.00          | 15.04       | H   | 9.53         |
| 100.9340        | 34.75            | ---                | 43.50          | 8.75        | H   | 15.00        |
| 199.9856        | 38.81            | ---                | 43.50          | 4.69        | H   | 14.36        |
| 375.9385        | 33.12            | ---                | 46.00          | 12.88       | H   | 18.54        |
| 480.5276        | 40.41            | ---                | 46.00          | 5.59        | H   | 21.47        |
| 625.0780        | 34.86            | ---                | 46.00          | 11.14       | H   | 23.84        |



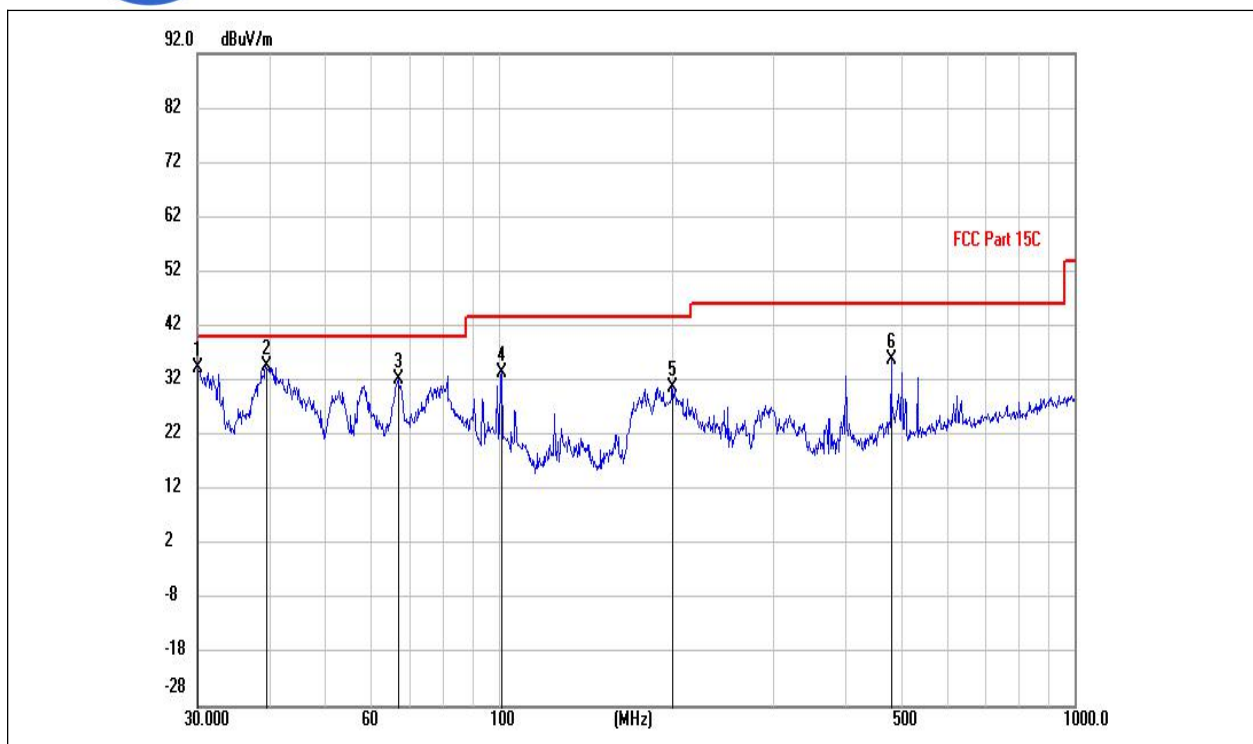
(802.11ac \_5180MHz, Antenna Horizontal, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1595.000        | 35.80            | ---              | 74.00          | 38.20       | H   | -14.54       |
| 1595.000        | ---              | 24.10            | 54.00          | 29.90       | H   | -14.54       |
| 2498.000        | 38.65            | ---              | 74.00          | 35.35       | H   | -11.31       |
| 2498.000        | ---              | 25.68            | 54.00          | 28.32       | H   | -11.31       |
| 3758.000        | 41.25            | ---              | 74.00          | 32.75       | H   | -5.71        |
| 3828.000        | ---              | 28.86            | 54.00          | 25.14       | H   | -5.72        |
| 4927.000        | ---              | 30.40            | 54.00          | 23.60       | H   | -2.85        |
| 5004.000        | 43.29            | ---              | 74.00          | 30.71       | H   | -3.55        |
| 6103.000        | 42.96            | ---              | 68.20          | 25.24       | H   | -2.68        |
| 6173.000        | ---              | 31.02            | 54.00          | 22.98       | H   | -2.09        |
| 7503.000        | 43.38            | ---              | 74.00          | 30.62       | H   | -0.18        |
| 7503.000        | ---              | 31.62            | 54.00          | 22.38       | H   | -0.18        |



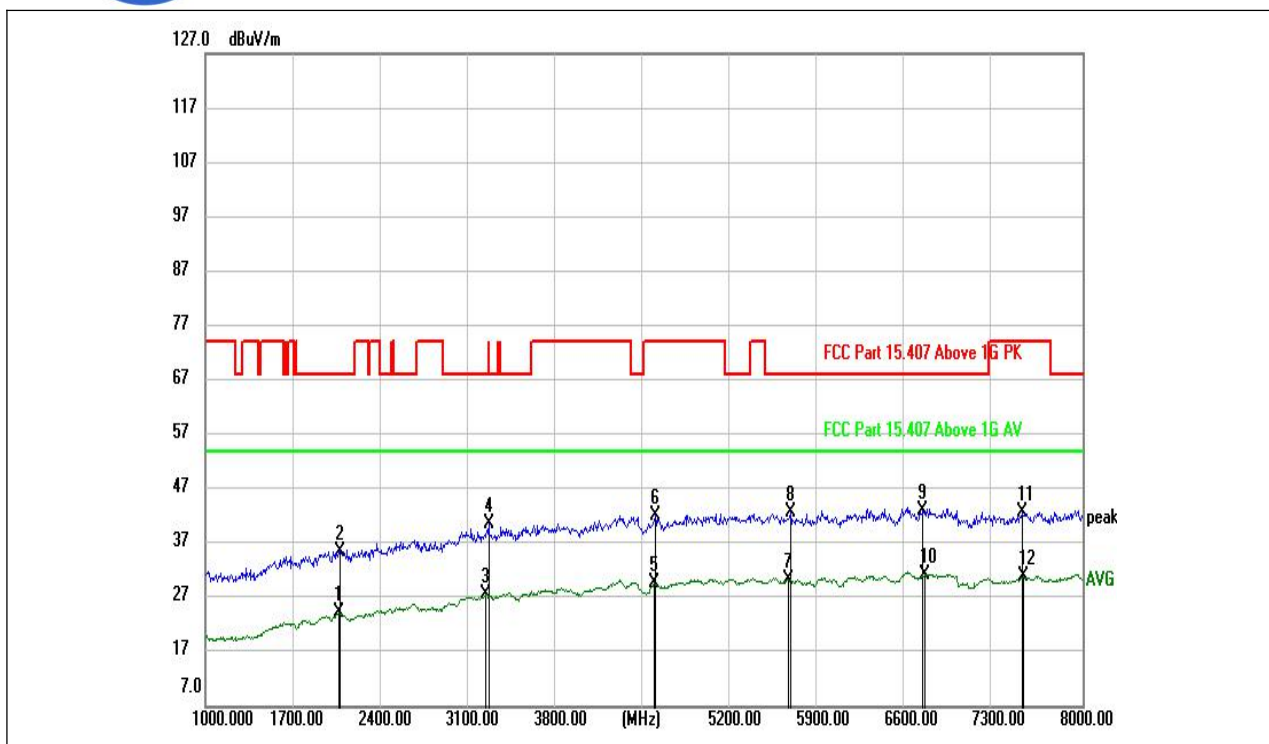
(802.11a \_5180MHz, Antenna Horizontal, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8440.000        | 44.59            | ---              | 74.00          | 29.41       | H   | 1.20         |
| 8550.000        | ---              | 32.23            | 54.00          | 21.77       | H   | 1.56         |
| 10360.000       | ---              | 33.83            | 54.00          | 20.17       | H   | 2.43         |
| 10370.000       | 45.99            | ---              | 68.20          | 22.21       | H   | 2.38         |
| 12080.000       | 44.39            | ---              | 74.00          | 29.61       | H   | 4.29         |
| 12090.000       | ---              | 32.83            | 54.00          | 21.17       | H   | 4.19         |
| 14370.000       | 46.91            | ---              | 68.20          | 21.29       | H   | 9.12         |
| 14420.000       | ---              | 34.95            | 54.00          | 19.05       | H   | 8.71         |
| 15700.000       | 48.00            | ---              | 74.00          | 26.00       | H   | 10.98        |
| 15920.000       | ---              | 36.03            | 54.00          | 17.97       | H   | 11.26        |
| 17730.000       | 49.73            | ---              | 74.00          | 24.27       | H   | 14.66        |
| 18000.000       | ---              | 38.08            | 54.00          | 15.92       | H   | 15.00        |



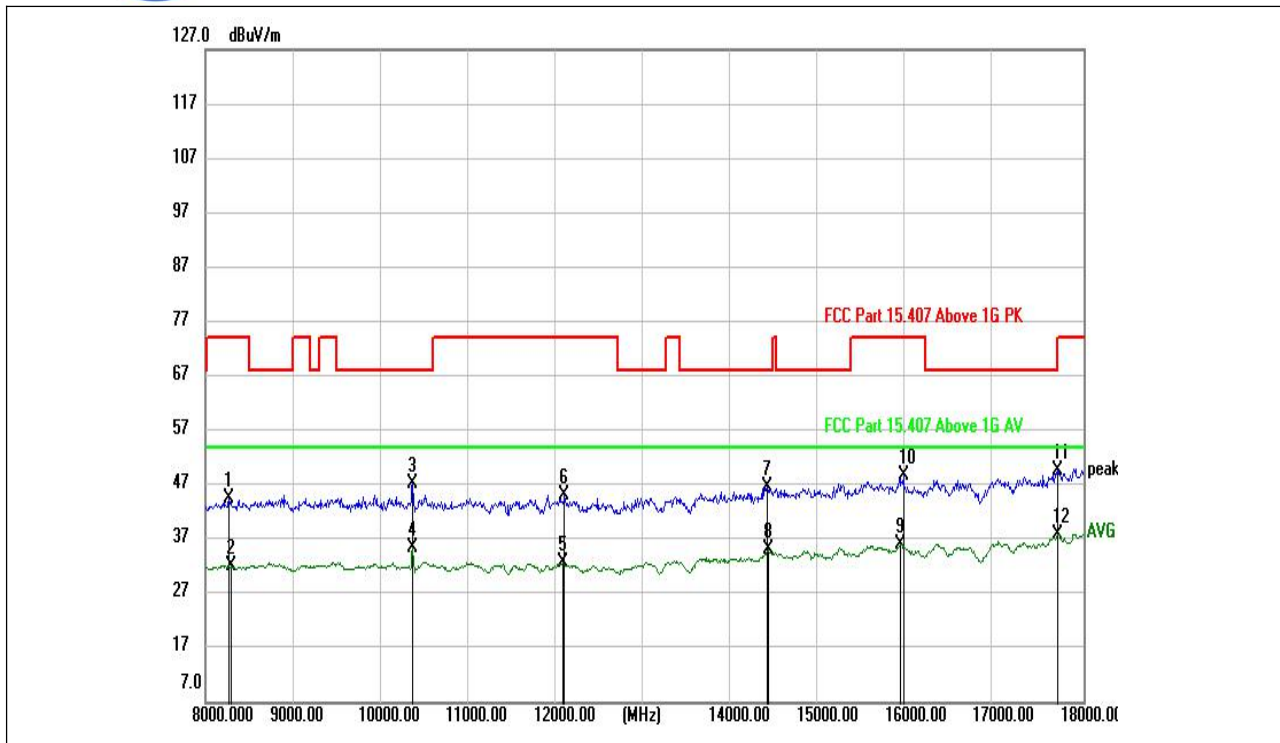
(802.11ac \_5180MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 30.0000         | 34.23            | ---                | 40.00          | 5.77        | V   | 13.90        |
| 39.4372         | 34.69            | ---                | 40.00          | 5.31        | V   | 14.85        |
| 66.9669         | 32.08            | ---                | 40.00          | 7.92        | V   | 12.73        |
| 101.2885        | 33.22            | ---                | 43.50          | 10.28       | V   | 14.92        |
| 199.9856        | 30.73            | ---                | 43.50          | 12.77       | V   | 14.36        |
| 480.5276        | 35.69            | ---                | 46.00          | 10.31       | V   | 21.47        |



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

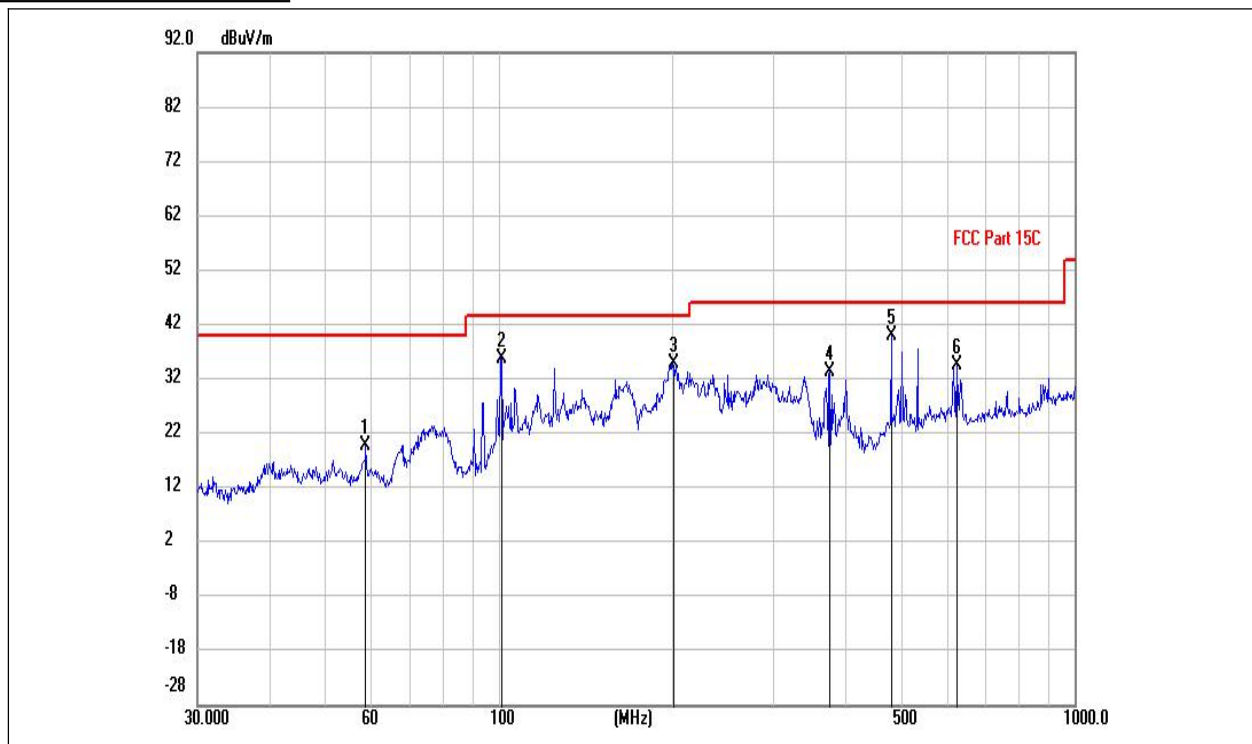
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 2064.000        | ---              | 24.48            | 54.00          | 29.52       | V   | -11.69       |
| 2071.000        | 35.51            | ---              | 68.20          | 32.69       | V   | -11.53       |
| 3233.000        | ---              | 27.60            | 54.00          | 26.40       | V   | -7.43        |
| 3261.000        | 40.67            | ---              | 74.00          | 33.33       | V   | -7.34        |
| 4584.000        | ---              | 29.72            | 54.00          | 24.28       | V   | -4.27        |
| 4591.000        | 42.09            | ---              | 74.00          | 31.91       | V   | -4.26        |
| 5655.000        | ---              | 30.45            | 54.00          | 23.55       | V   | -2.62        |
| 5669.000        | 42.60            | ---              | 68.20          | 25.60       | V   | -2.72        |
| 6726.000        | 43.17            | ---              | 68.20          | 25.03       | V   | -1.45        |
| 6740.000        | ---              | 31.33            | 54.00          | 22.67       | V   | -1.44        |
| 7524.000        | 42.58            | ---              | 74.00          | 31.42       | V   | -0.15        |
| 7531.000        | ---              | 30.99            | 54.00          | 23.01       | V   | -0.10        |



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

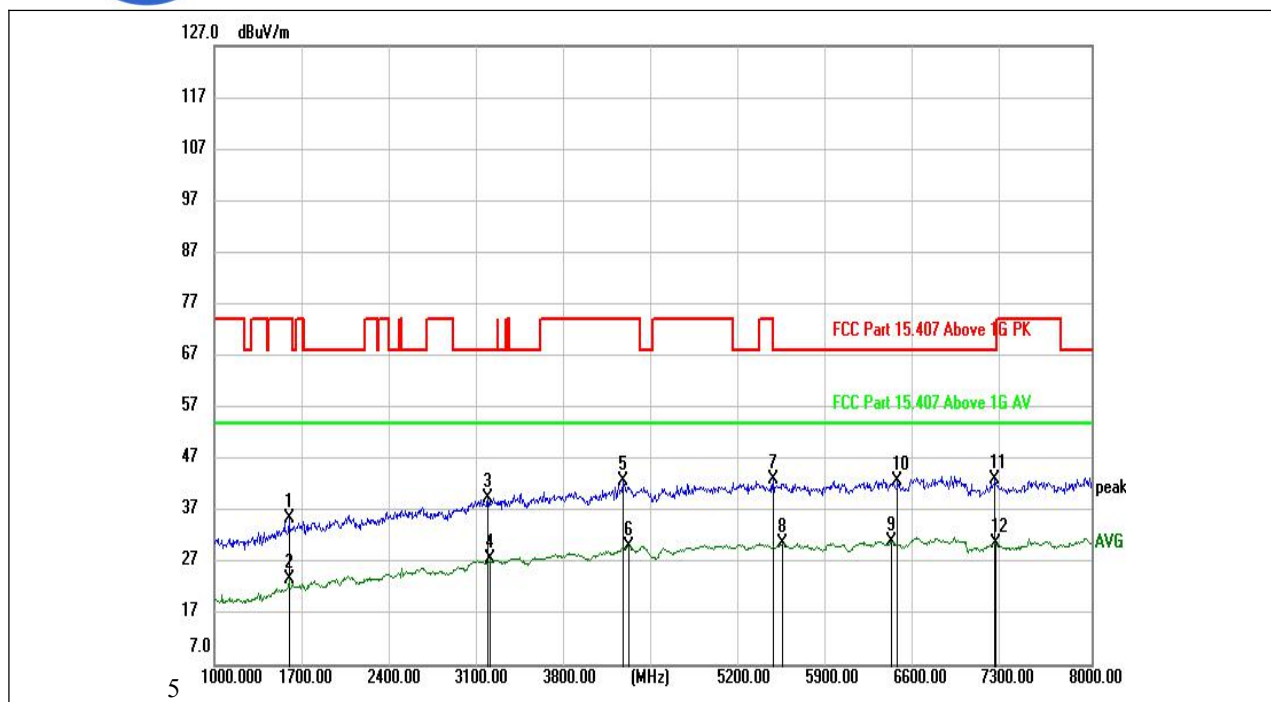
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8270.000        | 44.41            | ---              | 74.00          | 29.59       | V   | 1.34         |
| 8300.000        | ---              | 32.15            | 54.00          | 21.85       | V   | 1.55         |
| 10360.000       | 47.28            | ---              | 68.20          | 20.92       | V   | 2.43         |
| 10360.000       | ---              | 35.60            | 54.00          | 18.40       | V   | 2.43         |
| 12070.000       | ---              | 32.71            | 54.00          | 21.29       | V   | 4.85         |
| 12090.000       | 45.14            | ---              | 74.00          | 28.86       | V   | 4.57         |
| 14400.000       | 46.77            | ---              | 68.20          | 21.43       | V   | 8.98         |
| 14410.000       | ---              | 35.11            | 54.00          | 18.89       | V   | 8.96         |
| 15920.000       | ---              | 36.22            | 54.00          | 17.78       | V   | 11.20        |
| 15950.000       | 48.66            | ---              | 74.00          | 25.34       | V   | 11.40        |
| 17700.000       | 49.60            | ---              | 68.20          | 18.60       | V   | 14.37        |
| 17700.000       | ---              | 37.91            | 54.00          | 16.09       | V   | 14.37        |

# Plots for Channel = 40



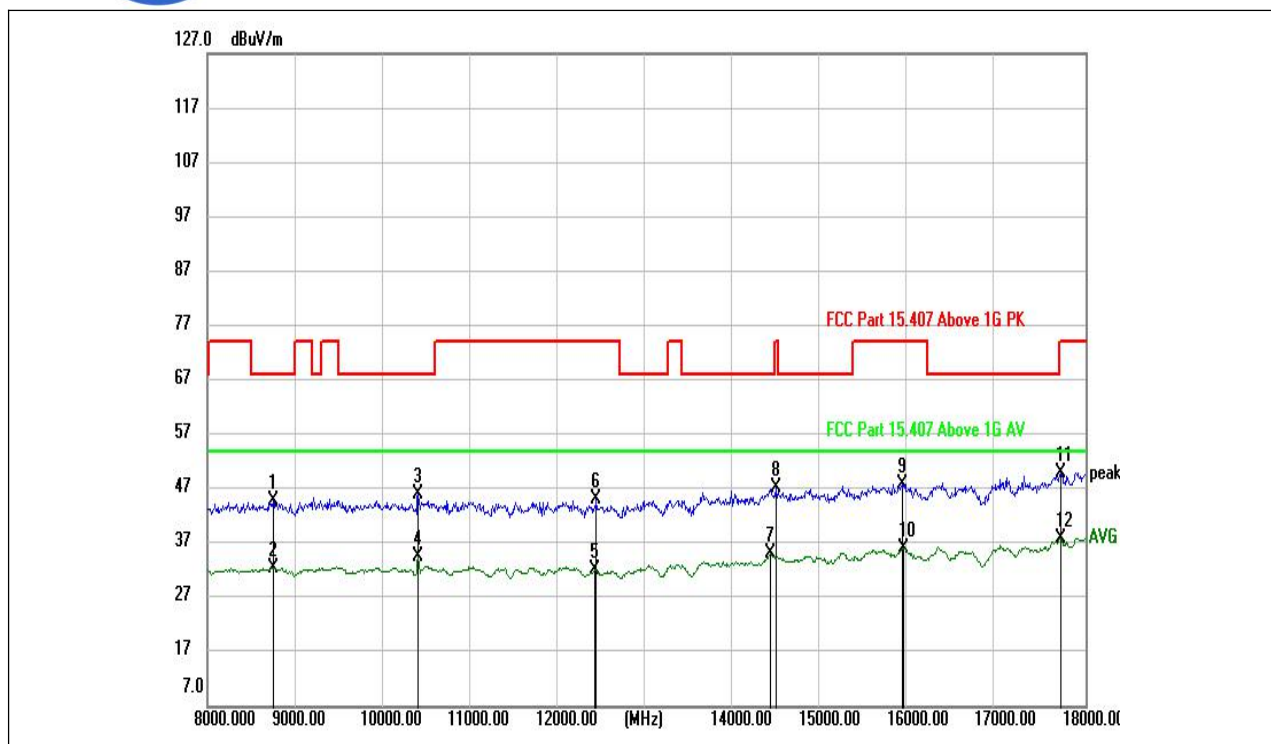
(802.11ac \_5200MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 58.8185         | 19.92            | ---                | 40.00          | 16.08       | H   | 15.4         |
| 101.2885        | 35.91            | ---                | 43.50          | 21.73       | H   | 15.1         |
| 200.6881        | 34.90            | ---                | 43.50          | 18.01       | H   | 16.4         |
| 375.9385        | 33.25            | ---                | 46.00          | 18.95       | H   | 18.7         |
| 480.5276        | 40.10            | ---                | 46.00          | 14.90       | H   | 25.3         |
| 625.0780        | 34.56            | ---                | 46.00          | 12.49       | H   | 28.4         |



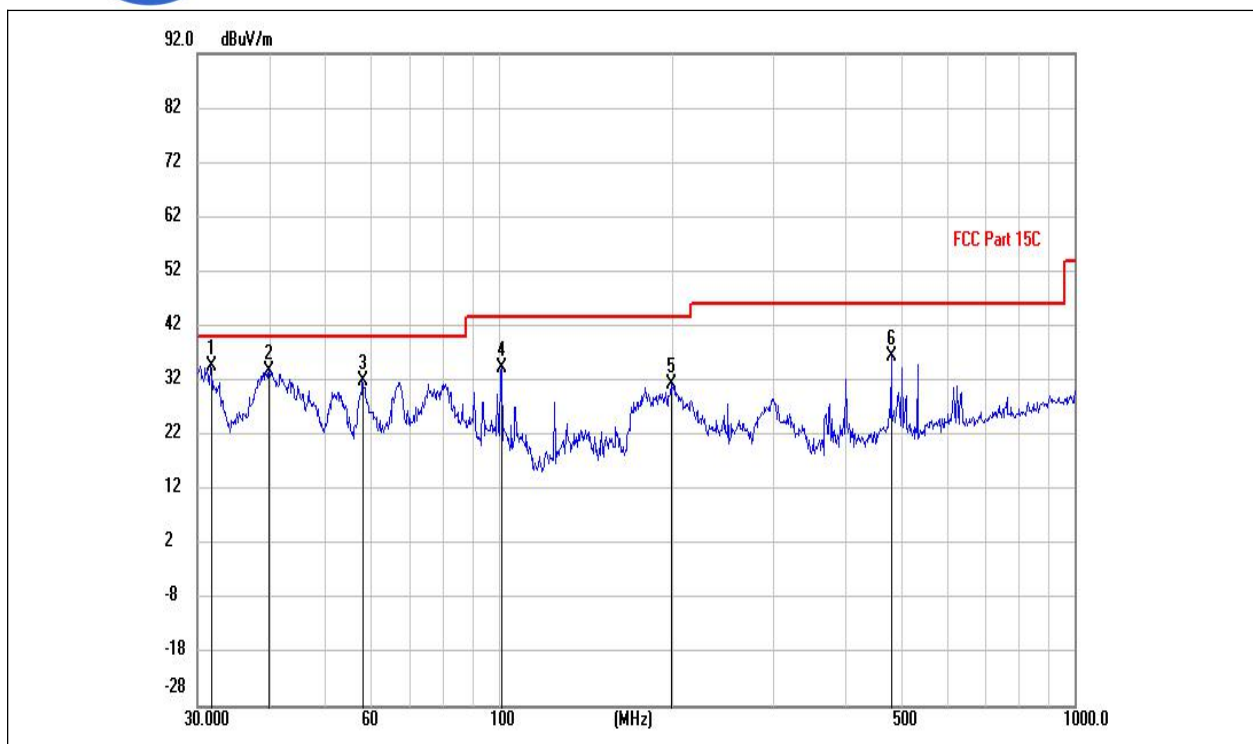
(802.11ac \_5200MHz, Antenna Horizontal, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1595.000        | 35.47            | ---              | 74.00          | 38.53       | H   | -14.54       |
| 1595.000        | ---              | 23.63            | 54.00          | 30.37       | H   | -14.54       |
| 3184.000        | 39.49            | ---              | 68.20          | 28.71       | H   | -7.79        |
| 3205.000        | ---              | 27.52            | 54.00          | 26.48       | H   | -7.70        |
| 4262.000        | 42.85            | ---              | 74.00          | 31.15       | H   | -4.32        |
| 4311.000        | ---              | 30.17            | 54.00          | 23.83       | H   | -3.54        |
| 5459.000        | 43.02            | ---              | 74.00          | 30.98       | H   | -2.71        |
| 5536.000        | ---              | 30.58            | 54.00          | 23.42       | H   | -2.62        |
| 6404.000        | ---              | 31.06            | 54.00          | 22.94       | H   | -1.82        |
| 6453.000        | 42.83            | ---              | 68.20          | 25.37       | H   | -2.16        |
| 7230.000        | 42.91            | ---              | 68.20          | 25.29       | H   | -0.56        |
| 7237.000        | ---              | 30.72            | 54.00          | 23.28       | H   | -0.55        |



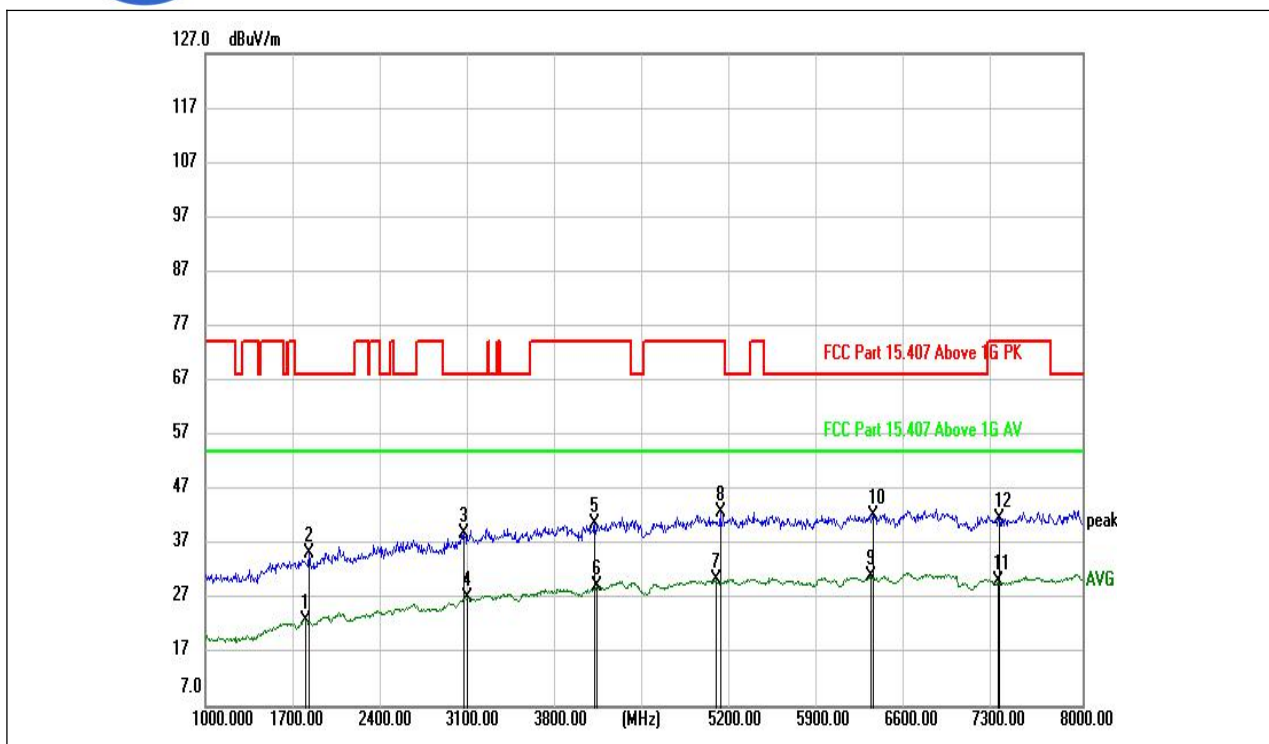
(802.11ac\_5200MHz, Antenna Horizontal, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8750.000        | 44.94            | ---              | 68.20          | 23.26       | H   | 1.66         |
| 8750.000        | ---              | 32.51            | 54.00          | 21.49       | H   | 1.66         |
| 10400.000       | 46.17            | ---              | 68.20          | 22.03       | H   | 2.38         |
| 10400.000       | ---              | 34.69            | 54.00          | 19.31       | H   | 2.38         |
| 12410.000       | ---              | 32.29            | 54.00          | 21.71       | H   | 4.41         |
| 12430.000       | 45.15            | ---              | 74.00          | 28.85       | H   | 4.62         |
| 14410.000       | ---              | 35.11            | 54.00          | 18.89       | H   | 8.84         |
| 14480.000       | 47.22            | ---              | 74.00          | 26.78       | H   | 8.06         |
| 15920.000       | 47.83            | ---              | 74.00          | 26.17       | H   | 11.26        |
| 15930.000       | ---              | 36.13            | 54.00          | 17.87       | H   | 11.32        |
| 17720.000       | 49.97            | ---              | 74.00          | 24.03       | H   | 14.57        |
| 17720.000       | ---              | 37.98            | 54.00          | 16.02       | H   | 14.57        |



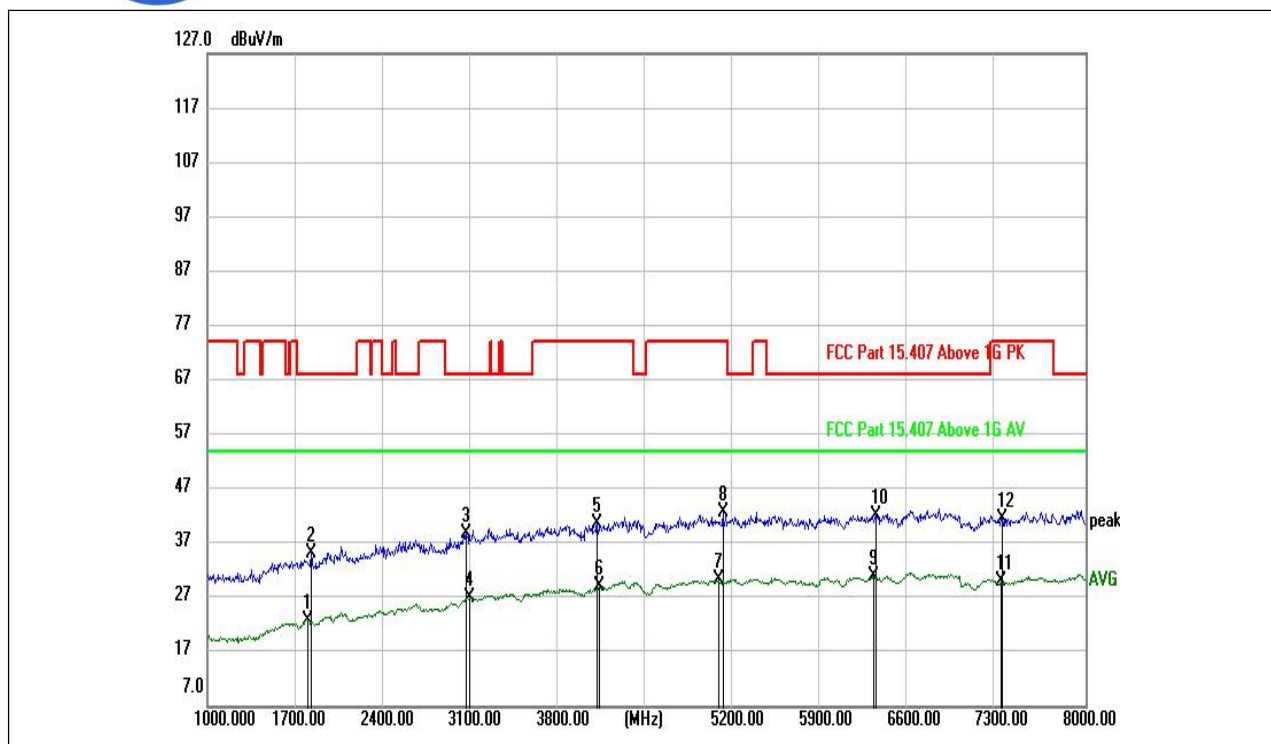
(802.11ac \_5200MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 31.6202         | 34.68            | ---                | 40.00          | 5.32        | V   | 12.09        |
| 39.9942         | 33.67            | ---                | 40.00          | 6.33        | V   | 15.69        |
| 57.9993         | 31.96            | ---                | 40.00          | 8.04        | V   | 14.27        |
| 101.2885        | 34.12            | ---                | 43.50          | 9.38        | V   | 14.92        |
| 199.2855        | 31.36            | ---                | 43.50          | 12.14       | V   | 14.25        |
| 480.5276        | 36.40            | ---                | 46.00          | 9.60        | V   | 21.47        |



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

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1140.239005     | 31.59            | ---              | 74.00          | 42.41       | V   | -17.6        |
| 1140.239005     | ---              | 18.67            | 54.00          | 35.33       | V   | -17.6        |
| 1615.384073     | ---              | 21.27            | 54.00          | 32.73       | V   | -14.7        |
| 1615.384073     | 34.48            | ---              | 74.00          | 39.52       | V   | -14.7        |
| 2126.058803     | 45.33            | ---              | 68.20          | 22.87       | V   | -12.8        |
| 2126.058803     | ---              | 23.25            | 54.00          | 30.75       | V   | -12.8        |
| 3480.037084     | 48.42            | ---              | 68.20          | 19.78       | V   | -7.6         |
| 3480.037084     | ---              | 45.35            | 54.00          | 8.65        | V   | -7.6         |
| 4914.081826     | 43.97            | ---              | 74.00          | 30.03       | V   | -2.9         |
| 4914.081826     | ---              | 30.91            | 54.00          | 23.09       | V   | -2.9         |
| 5713.625401     | ---              | 35.66            | 54.00          | 18.34       | V   | -2.9         |
| 5713.625401     | 48.12            | ---              | 68.20          | 20.08       | V   | -2.9         |



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

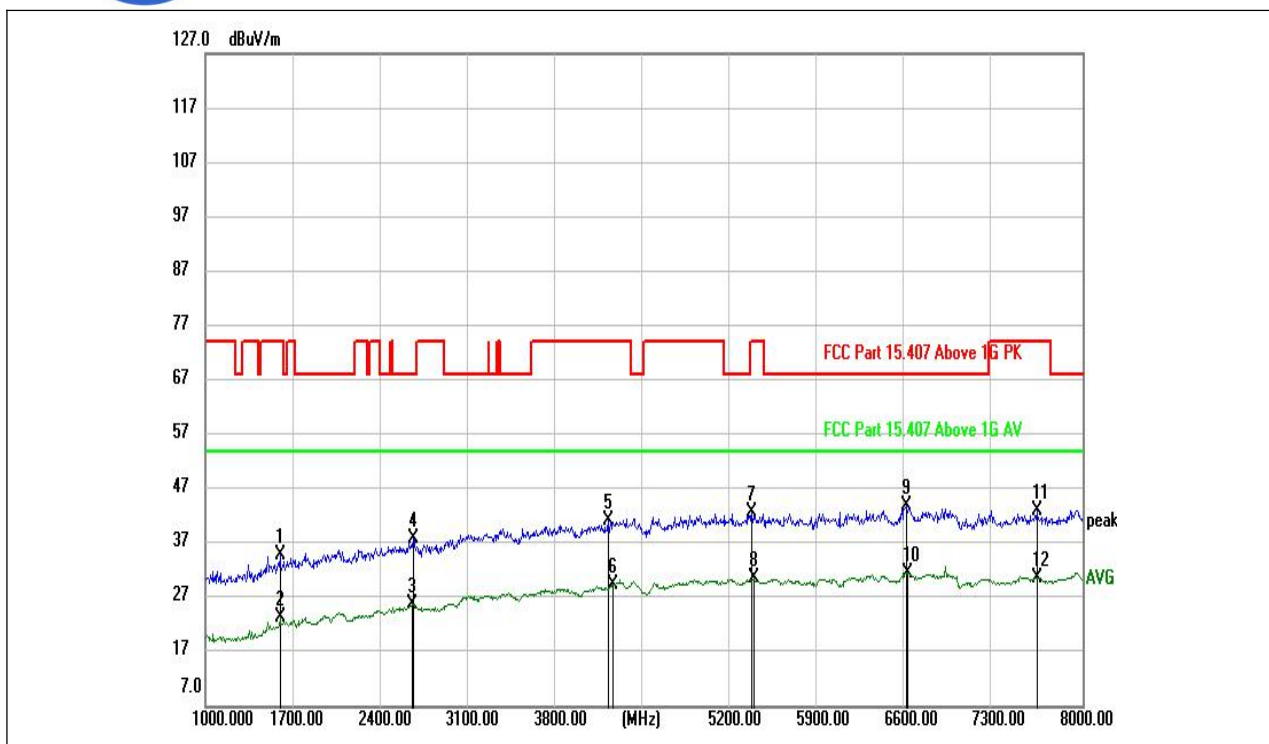
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1805.000        | ---              | 22.97            | 54.00          | 31.03       | V   | -13.99       |
| 1826.000        | 35.20            | ---              | 68.20          | 33.00       | V   | -13.98       |
| 3065.000        | 38.71            | ---              | 68.20          | 29.49       | V   | -7.94        |
| 3093.000        | ---              | 27.04            | 54.00          | 26.96       | V   | -7.88        |
| 4108.000        | 40.49            | ---              | 74.00          | 33.51       | V   | -5.31        |
| 4122.000        | ---              | 29.07            | 54.00          | 24.93       | V   | -5.14        |
| 5074.000        | ---              | 30.22            | 54.00          | 23.78       | V   | -2.77        |
| 5109.000        | 42.75            | ---              | 74.00          | 31.25       | V   | -2.85        |
| 6313.000        | ---              | 31.01            | 54.00          | 22.99       | V   | -1.71        |
| 6334.000        | 42.18            | ---              | 68.20          | 26.02       | V   | -1.91        |
| 7328.000        | ---              | 29.98            | 54.00          | 24.02       | V   | -0.65        |
| 7335.000        | 41.64            | ---              | 74.00          | 32.36       | V   | -0.61        |

Plot for Channel = 48



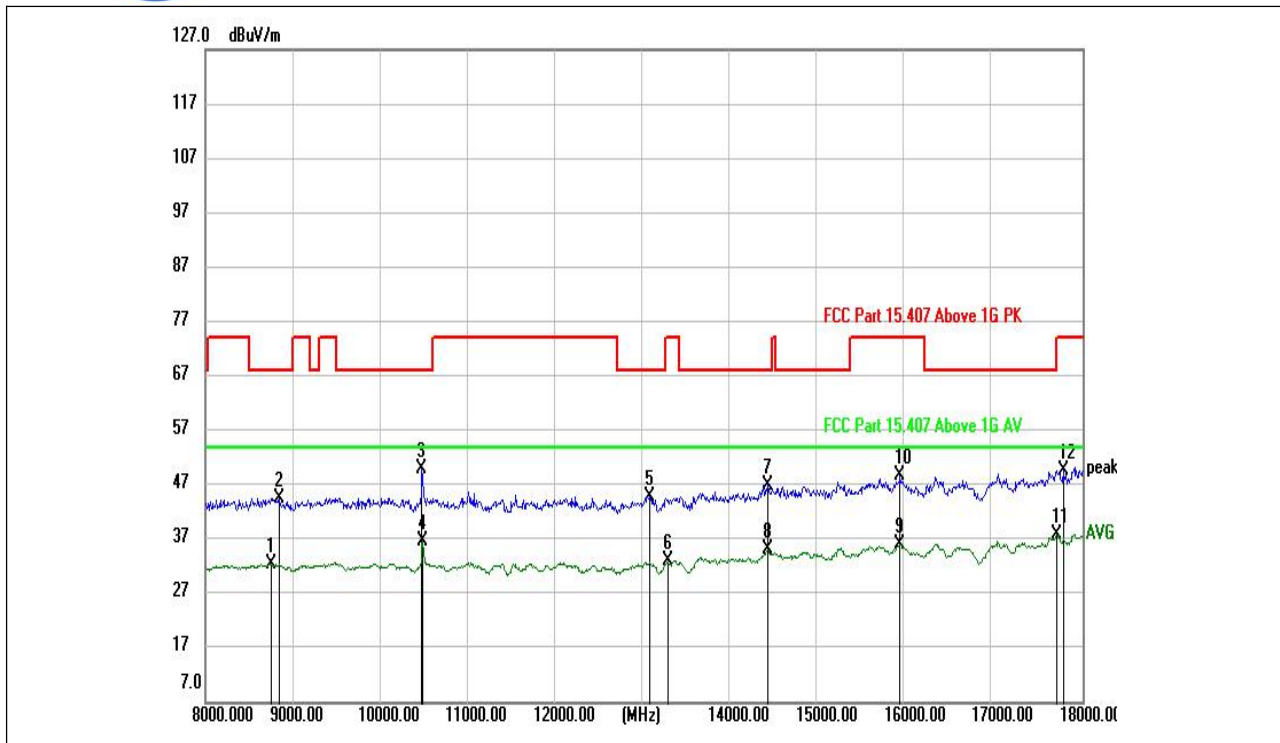
(802.11ac \_5240MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 67.2022         | 21.92            | ---                | 67.2022        | 18.08       | H   | 12.67        |
| 101.2885        | 35.15            | ---                | 101.2885       | 8.35        | H   | 14.92        |
| 201.3930        | 35.19            | ---                | 201.3930       | 8.31        | H   | 14.05        |
| 400.4319        | 33.34            | ---                | 400.4319       | 12.66       | H   | 19.66        |
| 480.5276        | 40.46            | ---                | 480.5276       | 5.54        | H   | 17.62        |
| 533.8321        | 37.72            | ---                | 533.8321       | 8.28        | H   | 18.24        |



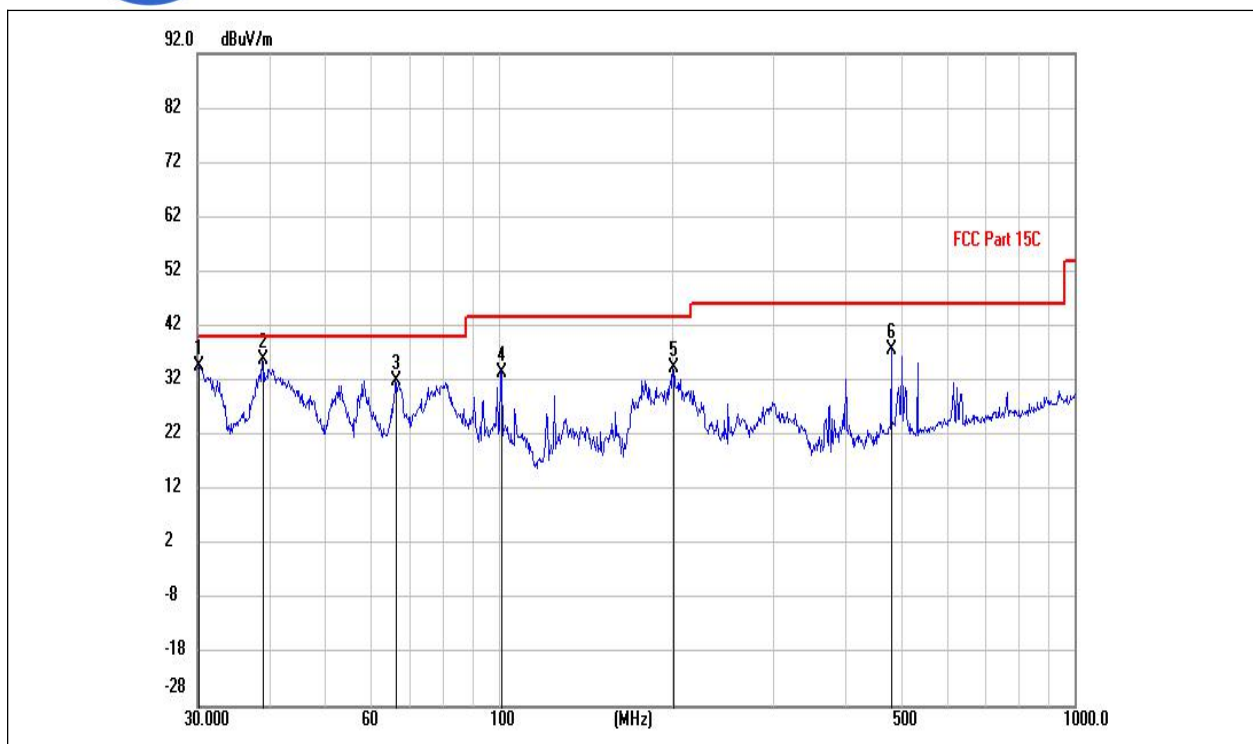
(802.11ac\_5240MHz, Antenna Horizontal, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1595.000        | 34.81            | ---              | 74.00          | 39.19       | H   | 1595.000     |
| 1595.000        | ---              | 23.44            | 54.00          | 30.56       | H   | 1595.000     |
| 2652.000        | ---              | 25.74            | 54.00          | 28.26       | H   | 2652.000     |
| 2659.000        | 37.81            | ---              | 68.20          | 30.39       | H   | 2659.000     |
| 4213.000        | 41.30            | ---              | 74.00          | 32.70       | H   | 4213.000     |
| 4255.000        | ---              | 29.58            | 54.00          | 24.42       | H   | 4255.000     |
| 5361.000        | 42.87            | ---              | 74.00          | 31.13       | H   | 5361.000     |
| 5375.000        | ---              | 30.52            | 54.00          | 23.48       | H   | 5375.000     |
| 6593.000        | 43.99            | ---              | 68.20          | 24.21       | H   | 6593.000     |
| 6607.000        | ---              | 31.68            | 54.00          | 22.32       | H   | 6607.000     |
| 7636.000        | 42.94            | ---              | 74.00          | 31.06       | H   | 7636.000     |
| 7636.000        | ---              | 30.79            | 54.00          | 23.21       | H   | 7636.000     |



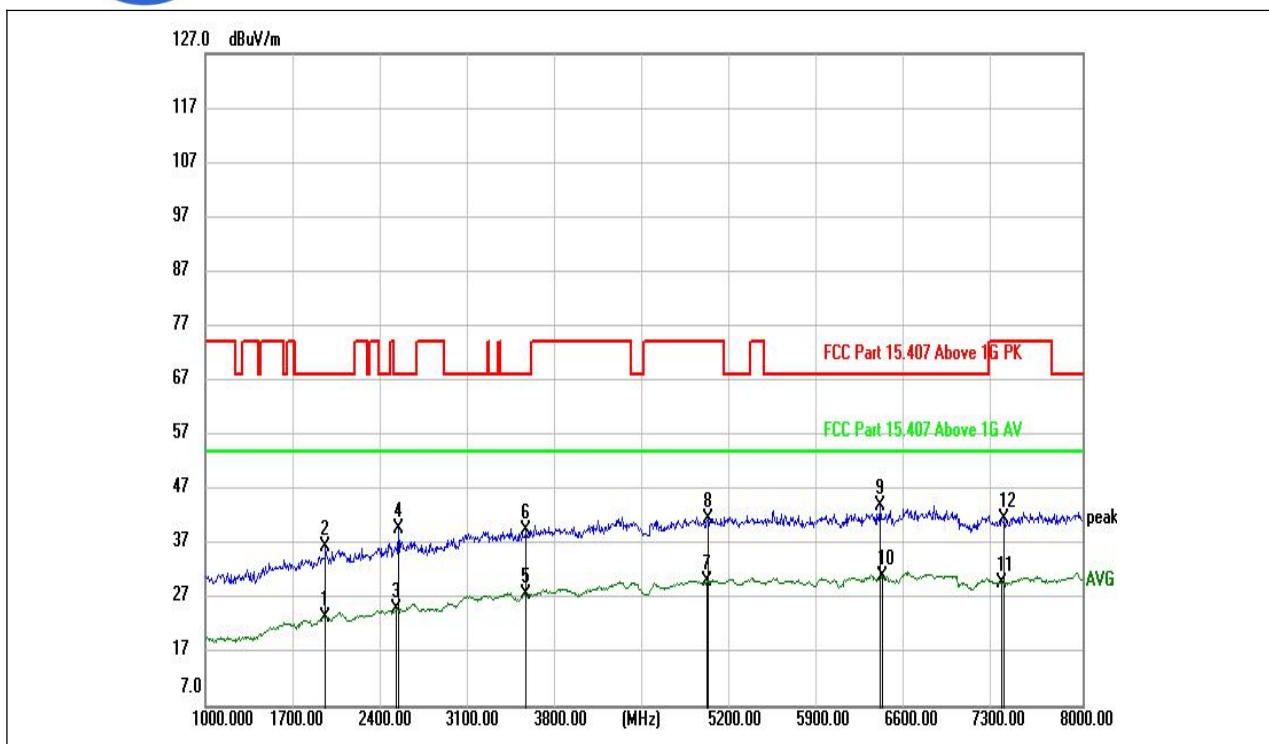
(802.11ac\_5240MHz, Antenna Horizontal, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8750.000        | ---              | 32.60            | 54.00          | 21.40       | H   | 1.66         |
| 8840.000        | 44.68            | ---              | 68.20          | 23.52       | H   | 2.12         |
| 10470.000       | 49.84            | ---              | 68.20          | 18.36       | H   | 3.02         |
| 10480.000       | ---              | 36.74            | 54.00          | 17.26       | H   | 3.07         |
| 13070.000       | 44.75            | ---              | 68.20          | 23.45       | H   | 6.26         |
| 13270.000       | ---              | 33.07            | 54.00          | 20.93       | H   | 5.89         |
| 14410.000       | 47.02            | ---              | 68.20          | 21.18       | H   | 8.84         |
| 14410.000       | ---              | 35.06            | 54.00          | 18.94       | H   | 8.84         |
| 15910.000       | ---              | 36.18            | 54.00          | 17.82       | H   | 11.18        |
| 15920.000       | 48.62            | ---              | 74.00          | 25.38       | H   | 11.26        |
| 17700.000       | ---              | 37.91            | 54.00          | 16.09       | H   | 14.37        |
| 17780.000       | 49.77            | ---              | 74.00          | 24.23       | H   | 14.58        |



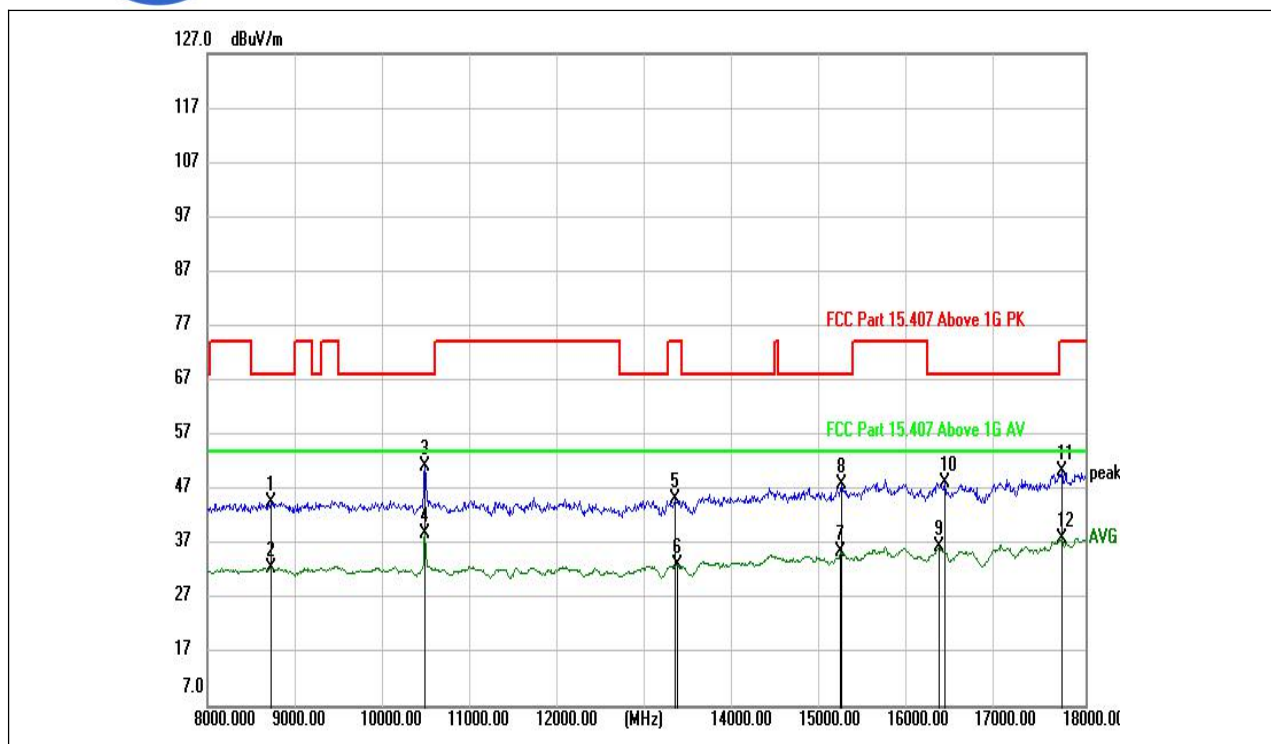
(802.11ac \_5240MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | QuasiPeak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Pol | Corr.<br>(dB/m) |
|--------------------|---------------------|-----------------------|-------------------|----------------|-----|-----------------|
| 30.2111            | 34.71               | ---                   | 40.00             | 5.29           | V   | 13.52           |
| 38.8879            | 35.65               | ---                   | 40.00             | 4.35           | V   | 14.17           |
| 66.2662            | 31.74               | ---                   | 40.00             | 8.26           | V   | 12.99           |
| 101.2885           | 33.41               | ---                   | 43.50             | 10.09          | V   | 14.92           |
| 200.6881           | 34.39               | ---                   | 43.50             | 9.11           | V   | 14.20           |
| 480.5276           | 37.49               | ---                   | 46.00             | 8.51           | V   | 21.47           |



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

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1952.000        | ---              | 23.49            | 54.00          | 30.51       | V   | -12.92       |
| 1959.000        | 36.40            | ---              | 68.20          | 31.80       | V   | -12.84       |
| 2519.000        | ---              | 25.08            | 54.00          | 28.92       | V   | -10.41       |
| 2540.000        | 39.78            | ---              | 68.20          | 28.42       | V   | -10.68       |
| 3555.000        | ---              | 27               | 54.00          | 26.32       | V   | -6.81        |
| 3562.000        | 39.27            | ---              | 68.20          | 28.93       | V   | -6.74        |
| 5004.000        | ---              | 30.06            | 54.00          | 23.94       | V   | -2.72        |
| 5011.000        | 41.56            | ---              | 74.00          | 32.44       | V   | -2.70        |
| 6383.000        | ---              | 43.95            | 68.20          | 24.25       | V   | -1.90        |
| 6404.000        | ---              | 30.96            | 54.00          | 23.04       | V   | -1.77        |
| 7356.000        | ---              | 29.91            | 54.00          | 24.09       | V   | -0.52        |
| 7377.000        | 41.46            | ---              | 74.00          | 32.54       | V   | -0.63        |



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

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8720.000        | 44.51            | ---              | 68.20          | 23.69       | V   | 1.68         |
| 8730.000        | ---              | 32.62            | 54.00          | 21.38       | V   | 1.69         |
| 10480.000       | 51.09            | ---              | 68.20          | 17.11       | V   | 3.71         |
| 10480.000       | ---              | 38.74            | 54.00          | 15.26       | V   | 3.71         |
| 13330.000       | 45.11            | ---              | 74.00          | 28.89       | V   | 6.27         |
| 13350.000       | ---              | 33.03            | 54.00          | 20.97       | V   | 6.53         |
| 15210.000       | ---              | 35.49            | 54.00          | 18.51       | V   | 10.03        |
| 15220.000       | 47.85            | ---              | 68.20          | 20.35       | V   | 10.02        |
| 16330.000       | ---              | 36.29            | 54.00          | 17.71       | V   | 11.33        |
| 16400.000       | 48.19            | ---              | 68.20          | 20.01       | V   | 11.27        |
| 17730.000       | 50.35            | ---              | 74.00          | 23.65       | V   | 14.66        |
| 17730.000       | ---              | 37.95            | 54.00          | 16.05       | V   | 14.66        |

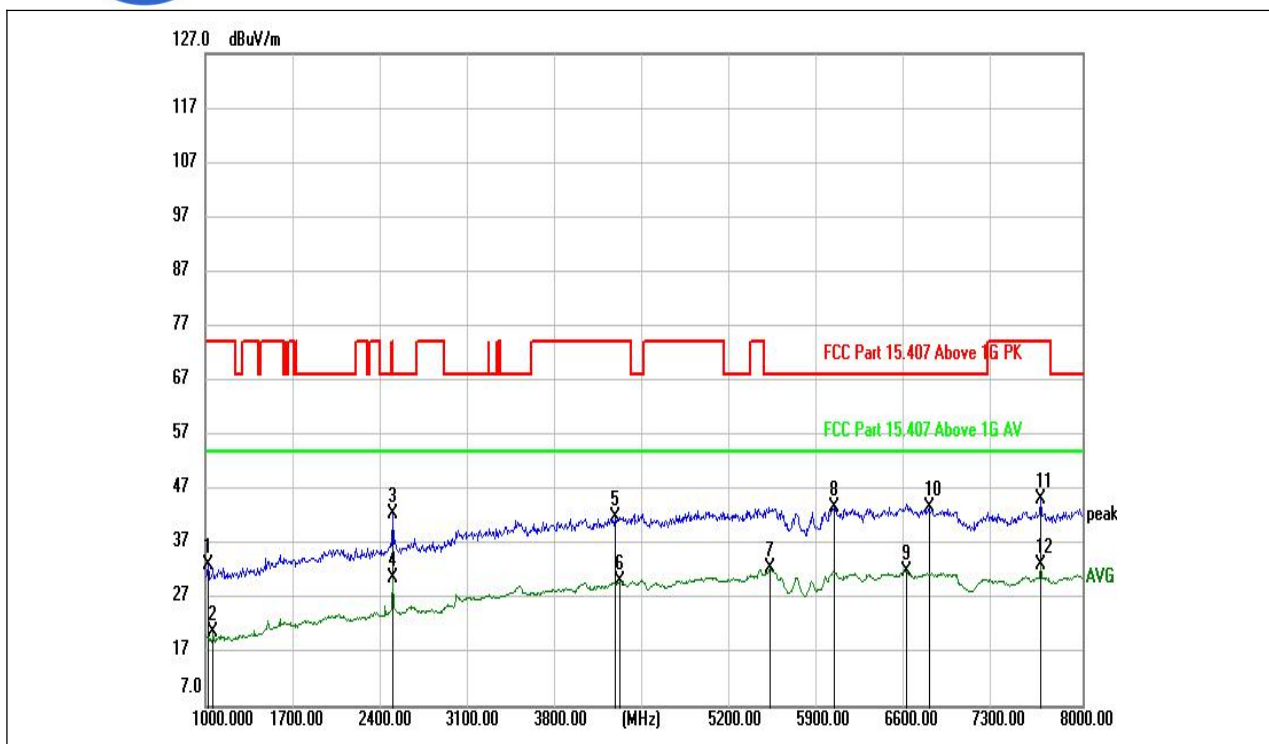


Plot for Channel = 149



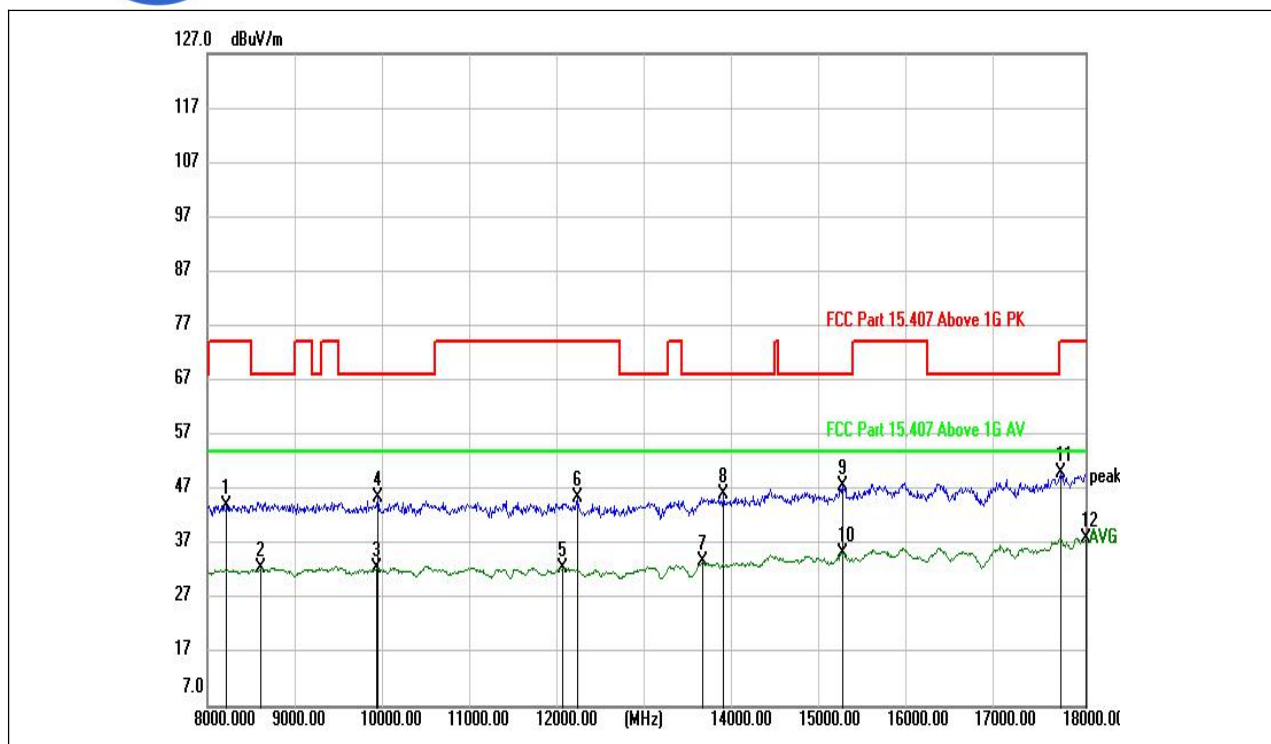
(802.11ac \_5745MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 77.8654         | 24.95            | ---                | 40.00          | 15.05       | H   | 9.50         |
| 100.9339        | 36.93            | ---                | 43.50          | 6.57        | H   | 15.00        |
| 202.8104        | 35.82            | ---                | 43.50          | 7.68        | H   | 13.86        |
| 339.5888        | 33.52            | ---                | 46.00          | 12.48       | H   | 18.21        |
| 480.5276        | 40.00            | ---                | 46.00          | 6.00        | H   | 17.62        |
| 625.0780        | 34.28            | ---                | 46.00          | 11.72       | H   | 19.25        |



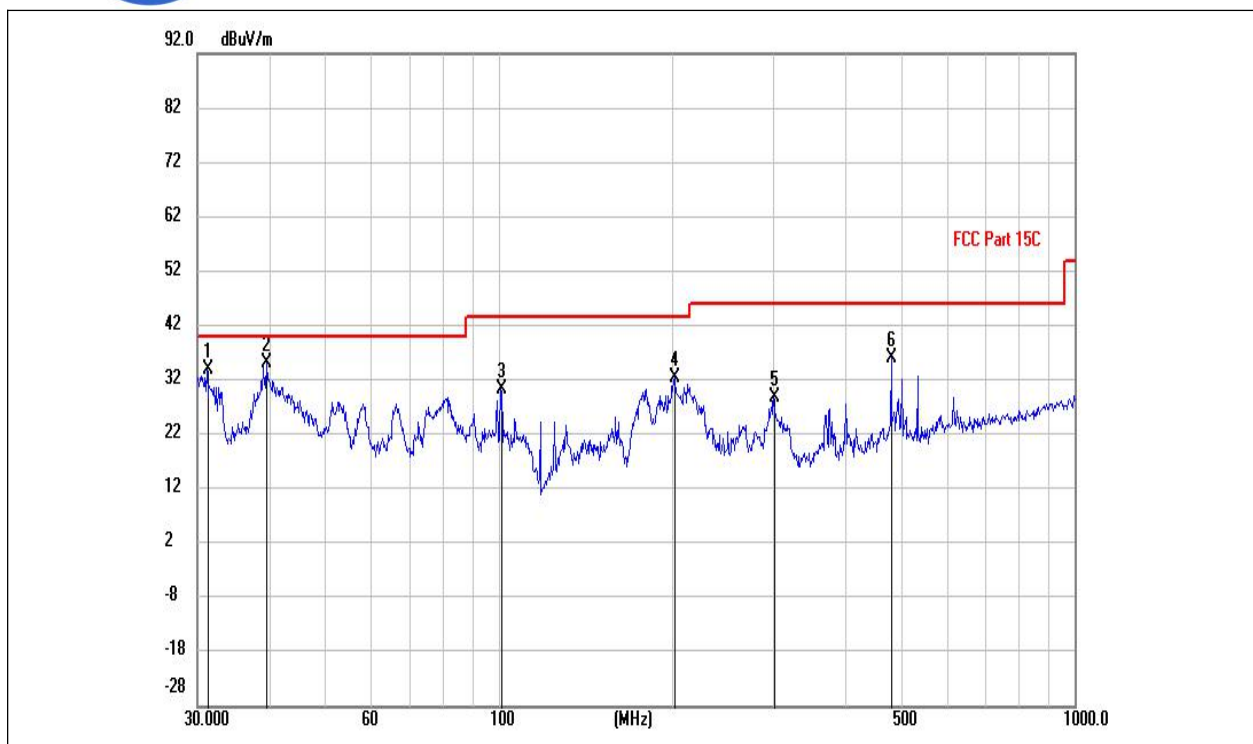
(802.11a \_5745MHz, Antenna Horizontal, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1021.000        | 32.95            | ---              | 74.00          | 41.05       | H   | -17.5        |
| 1063.000        | ---              | 20.78            | 54.00          | 33.22       | H   | -17.5        |
| 2498.000        | 42.34            | ---              | 74.00          | 31.66       | H   | -14.7        |
| 2498.000        | ---              | 30.80            | 54.00          | 23.20       | H   | -14.7        |
| 4269.000        | 41.89            | ---              | 74.00          | 32.11       | H   | -11.3        |
| 4304.000        | ---              | 30.03            | 54.00          | 23.97       | H   | -11.3        |
| 5508.000        | ---              | 32.44            | 54.00          | 21.56       | H   | -7.9         |
| 6019.000        | 43.52            | ---              | 68.20          | 24.68       | H   | -7.9         |
| 6593.000        | ---              | 32.01            | 54.00          | 21.99       | H   | -4.3         |
| 6775.000        | 43.70            | ---              | 68.20          | 24.50       | H   | -4.3         |
| 7664.000        | 45.15            | ---              | 74.00          | 28.85       | H   | -3.5         |
| 7664.000        | ---              | 32.97            | 54.00          | 21.03       | H   | -3.5         |



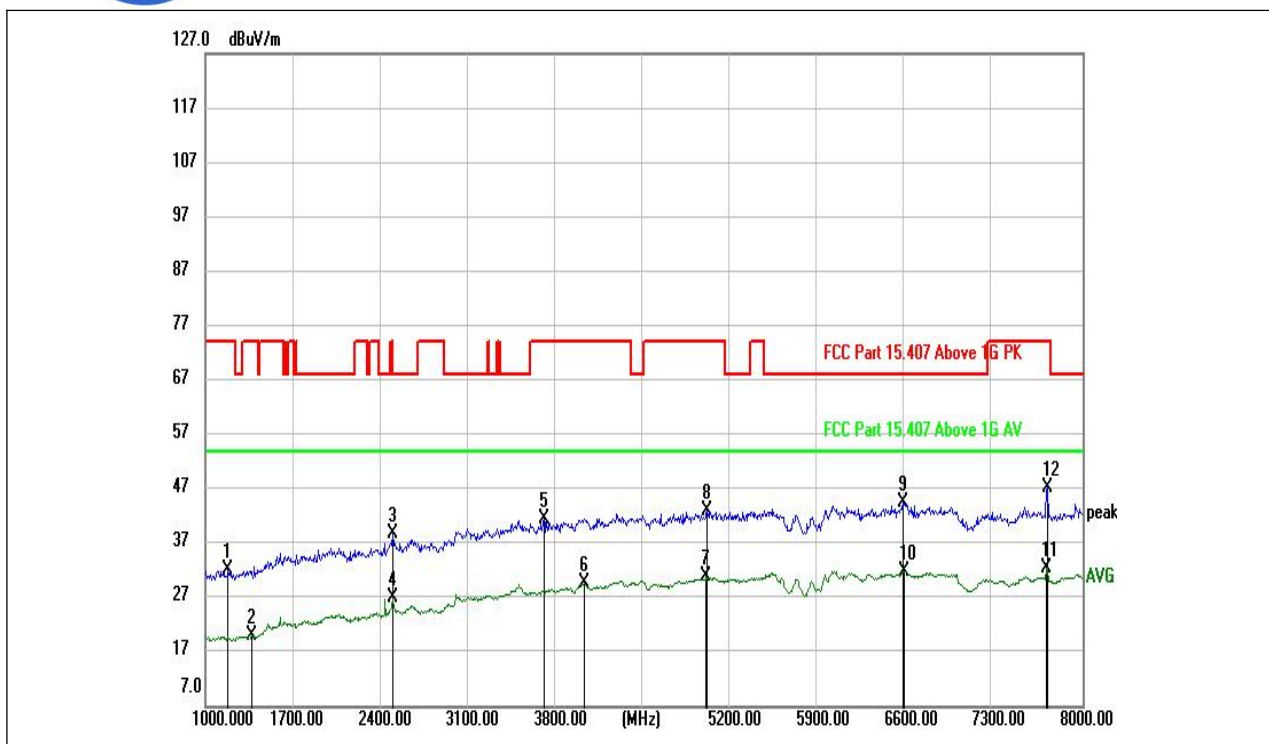
(802.11ac \_5745MHz, Antenna Horizontal, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8220.000        | 44.07            | ---              | 74.00          | 29.93       | H   | 1.44         |
| 8610.000        | ---              | 32.40            | 54.00          | 21.60       | H   | 1.47         |
| 9930.000        | ---              | 32.48            | 54.00          | 21.52       | H   | 2.26         |
| 9940.000        | 45.39            | ---              | 68.20          | 22.81       | H   | 2.27         |
| 12050.000       | ---              | 32.56            | 54.00          | 21.44       | H   | 4.58         |
| 12220.000       | 45.30            | ---              | 74.00          | 28.70       | H   | 4.11         |
| 13640.000       | ---              | 33.56            | 54.00          | 20.44       | H   | 7.10         |
| 13880.000       | 46.17            | ---              | 68.20          | 22.03       | H   | 7.72         |
| 15230.000       | 47.66            | ---              | 68.20          | 20.54       | H   | 10.02        |
| 15240.000       | ---              | 35.33            | 54.00          | 18.67       | H   | 10.02        |
| 17720.000       | 49.91            | ---              | 74.00          | 24.09       | H   | 14.57        |
| 18000.000       | ---              | 37.89            | 54.00          | 16.11       | H   | 15.00        |



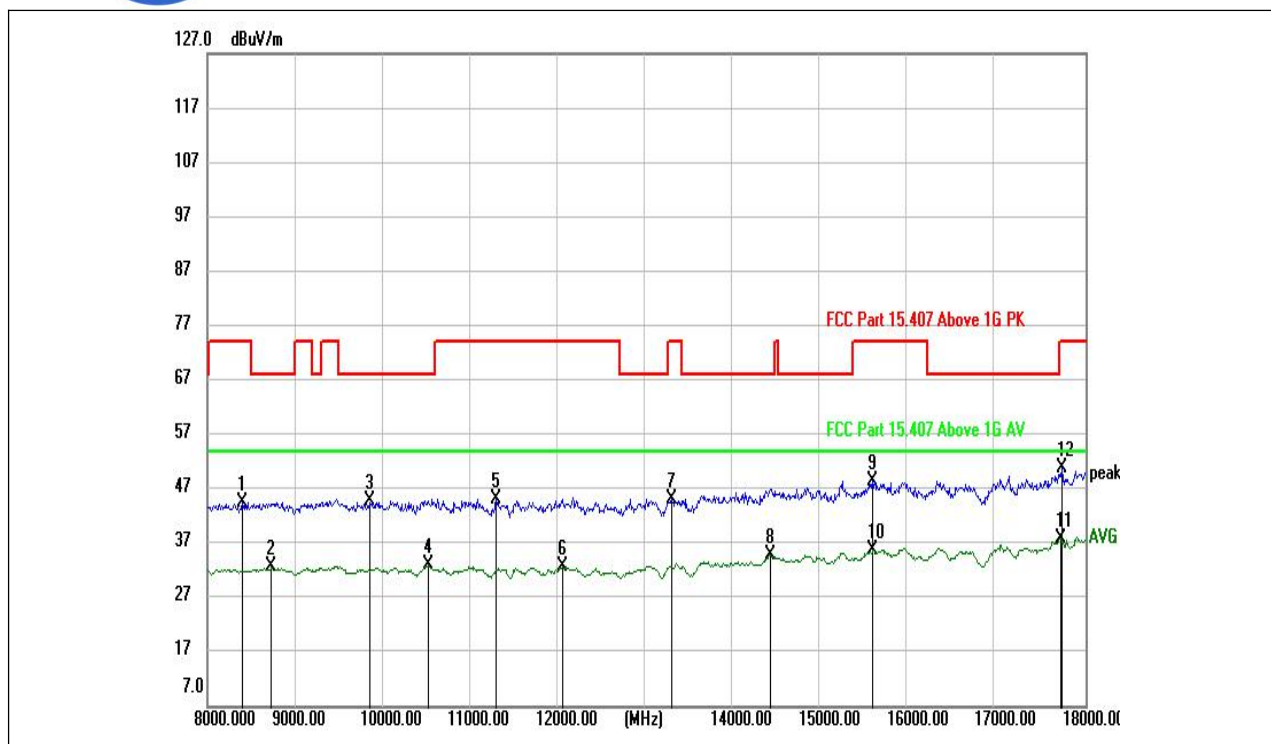
(802.11ac \_5745MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 31.1798         | 34.02            | ---                | 40.00          | 5.98        | V   | 12.06        |
| 39.5757         | 35.07            | ---                | 40.00          | 4.93        | V   | 15.06        |
| 100.9340        | 30.41            | ---                | 43.50          | 13.09       | V   | 15.00        |
| 202.1005        | 32.52            | ---                | 43.50          | 10.98       | V   | 13.95        |
| 300.3673        | 28.77            | ---                | 46.00          | 17.23       | V   | 17.45        |
| 480.5276        | 36.04            | ---                | 46.00          | 9.96        | V   | 21.47        |



(802.11a \_5745MHz, Antenna Vertical, 1GHz to 8GHz)

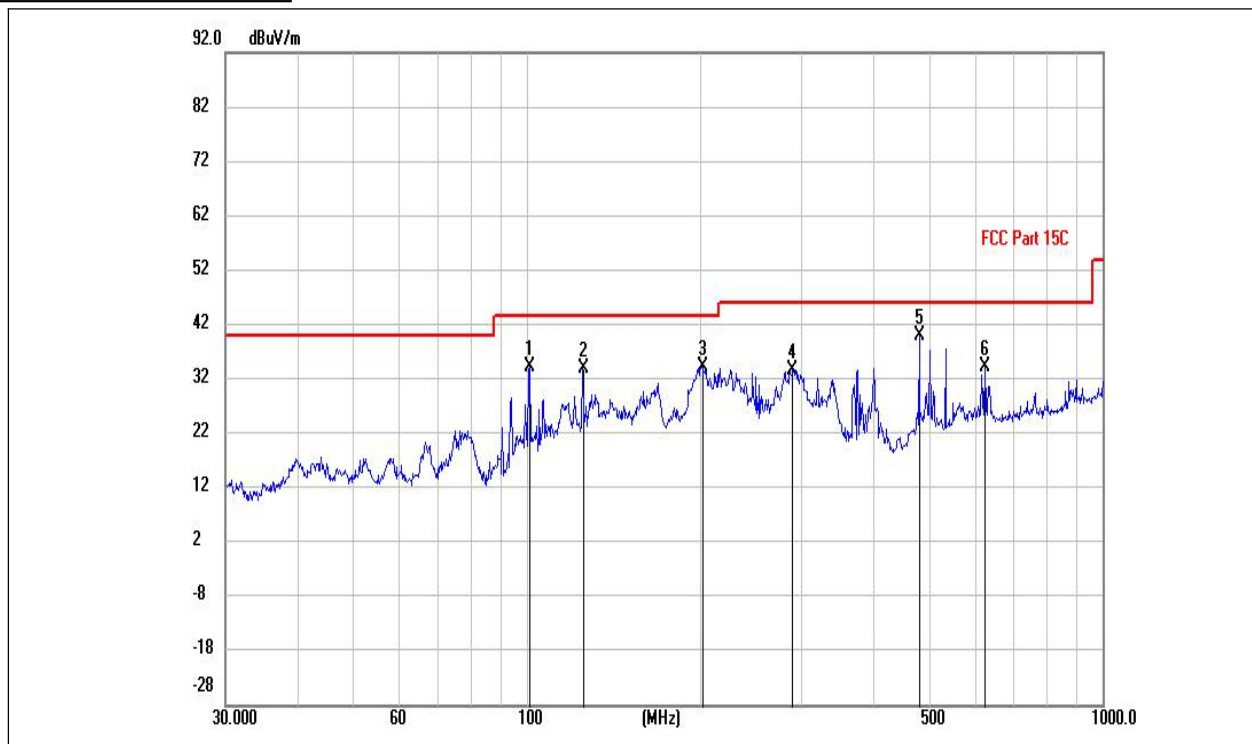
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1182.000        | 32.20            | ---              | 74.00          | 41.80       | V   | -17.80       |
| 1371.000        | ---              | 20.07            | 54.00          | 33.93       | V   | -17.11       |
| 2498.000        | 38.91            | ---              | 74.00          | 35.09       | V   | -9.63        |
| 2498.000        | ---              | 27.04            | 54.00          | 26.96       | V   | -9.63        |
| 3702.000        | 41.54            | ---              | 74.00          | 32.46       | V   | -6.03        |
| 4024.000        | ---              | 29.66            | 54.00          | 24.34       | V   | -4.16        |
| 4997.000        | ---              | 30.86            | 54.00          | 23.14       | V   | -2.72        |
| 5004.000        | 43.01            | ---              | 74.00          | 30.99       | V   | -2.72        |
| 6565.000        | 44.58            | ---              | 68.20          | 23.62       | V   | -1.05        |
| 6579.000        | ---              | 31.95            | 54.00          | 22.05       | V   | -0.89        |
| 7713.000        | ---              | 32.53            | 54.00          | 21.47       | V   | -0.18        |
| 7720.000        | 47.21            | ---              | 74.00          | 26.79       | V   | -0.22        |



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

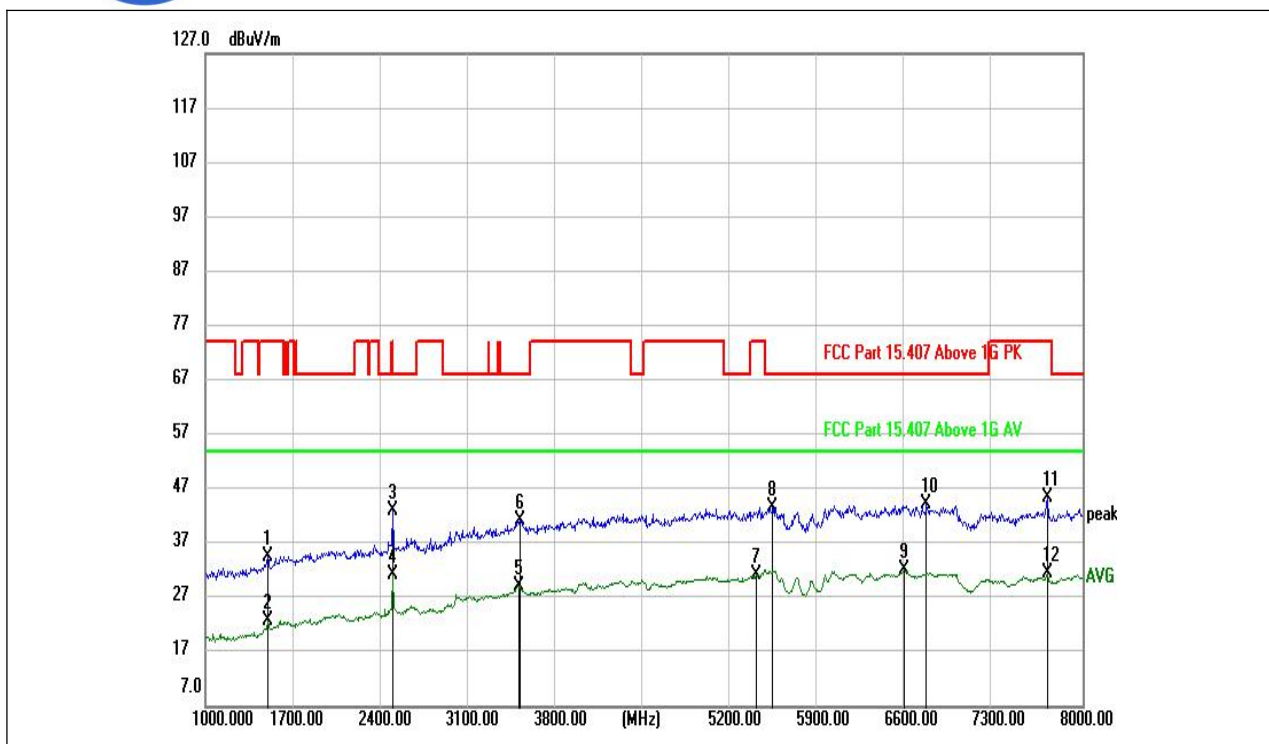
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8400.000        | 44.57            | ---              | 74.00          | 29.43       | V   | 1.20         |
| 8730.000        | ---              | 32.75            | 54.00          | 21.25       | V   | 1.69         |
| 9850.000        | 44.69            | 39.75            | 68.20          | 23.51       | V   | 2.27         |
| 10510.000       | 47.70            | 33.04            | 54.00          | 20.96       | V   | 3.87         |
| 11290.000       | 45.02            | ---              | 74.00          | 28.98       | V   | 3.62         |
| 12050.000       | ---              | 32.71            | 54.00          | 21.29       | V   | 5.10         |
| 13290.000       | 45.18            | 35.63            | 74.00          | 28.82       | V   | 5.86         |
| 14410.000       | 47.85            | 34.99            | 54.00          | 19.01       | V   | 8.96         |
| 15570.000       | 48.48            | ---              | 74.00          | 25.52       | V   | 10.52        |
| 15580.000       | ---              | 35.83            | 54.00          | 18.17       | V   | 10.44        |
| 17720.000       | 50.52            | 37.87            | 54.00          | 16.13       | V   | 14.57        |
| 17730.000       | 50.82            | 37.76            | 74.00          | 23.18       | V   | 14.66        |

Plot for Channel = 157



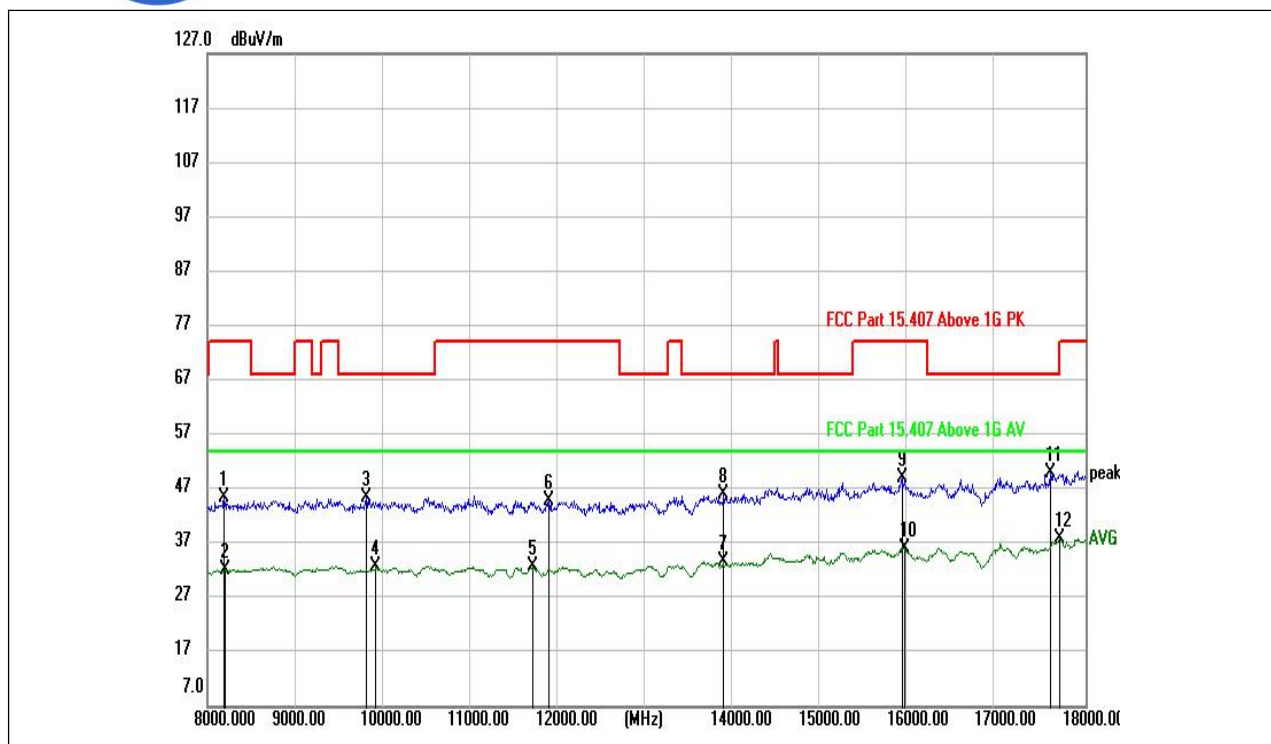
(802.11ac \_5785MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 101.2885        | 34.36            | ---                | 43.50          | 9.14        | H   | 14.92        |
| 125.0066        | 34.07            | ---                | 43.50          | 9.43        | H   | 11.12        |
| 202.1005        | 34.21            | ---                | 43.50          | 9.29        | H   | 13.95        |
| 290.0172        | 33.73            | ---                | 46.00          | 12.27       | H   | 15.79        |
| 480.5276        | 40.10            | ---                | 46.00          | 5.90        | H   | 21.47        |
| 625.0780        | 34.27            | ---                | 46.00          | 11.73       | H   | 23.84        |



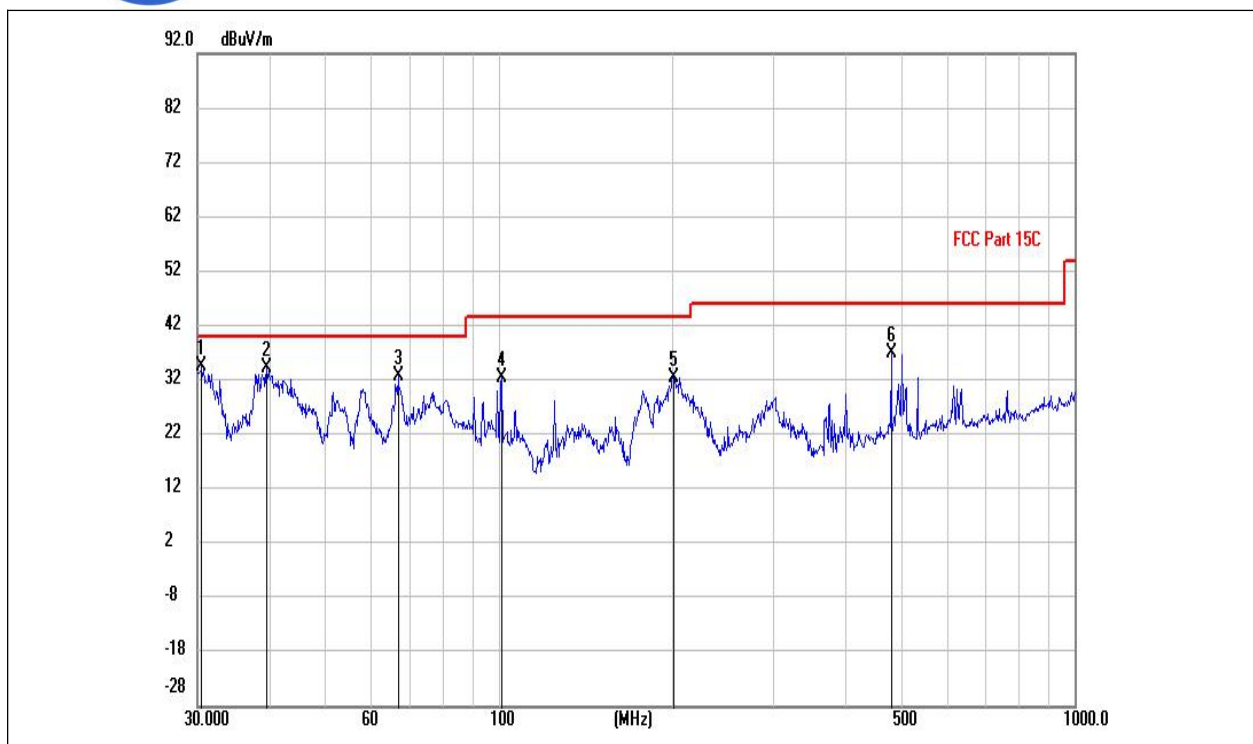
(802.11ac \_5785MHz, Antenna Horizontal, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1497.000        | 34.51            | ---              | 74.00          | 39.49       | H   | -15.64       |
| 1497.000        | ---              | 22.84            | 54.00          | 31.16       | H   | -15.64       |
| 2498.000        | 42.99            | 22.30            | 74.00          | 31.01       | H   | -11.31       |
| 2498.000        | ---              | 31.25            | 54.00          | 22.75       | H   | -11.31       |
| 3506.000        | ---              | 29.24            | 54.00          | 24.76       | H   | -7.97        |
| 3513.000        | 41.31            | ---              | 68.20          | 26.89       | H   | -7.79        |
| 5396.000        | ---              | 31.31            | 54.00          | 22.69       | H   | -2.68        |
| 5529.000        | 43.53            | ---              | 68.20          | 24.67       | H   | -2.74        |
| 6579.000        | ---              | 32.13            | 54.00          | 21.87       | H   | -1.14        |
| 6754.000        | 44.17            | ---              | 68.20          | 24.03       | H   | -1.42        |
| 7720.000        | 45.57            | ---              | 74.00          | 28.43       | H   | -0.22        |
| 7720.000        | ---              | 31.47            | 54.00          | 22.53       | H   | -0.22        |



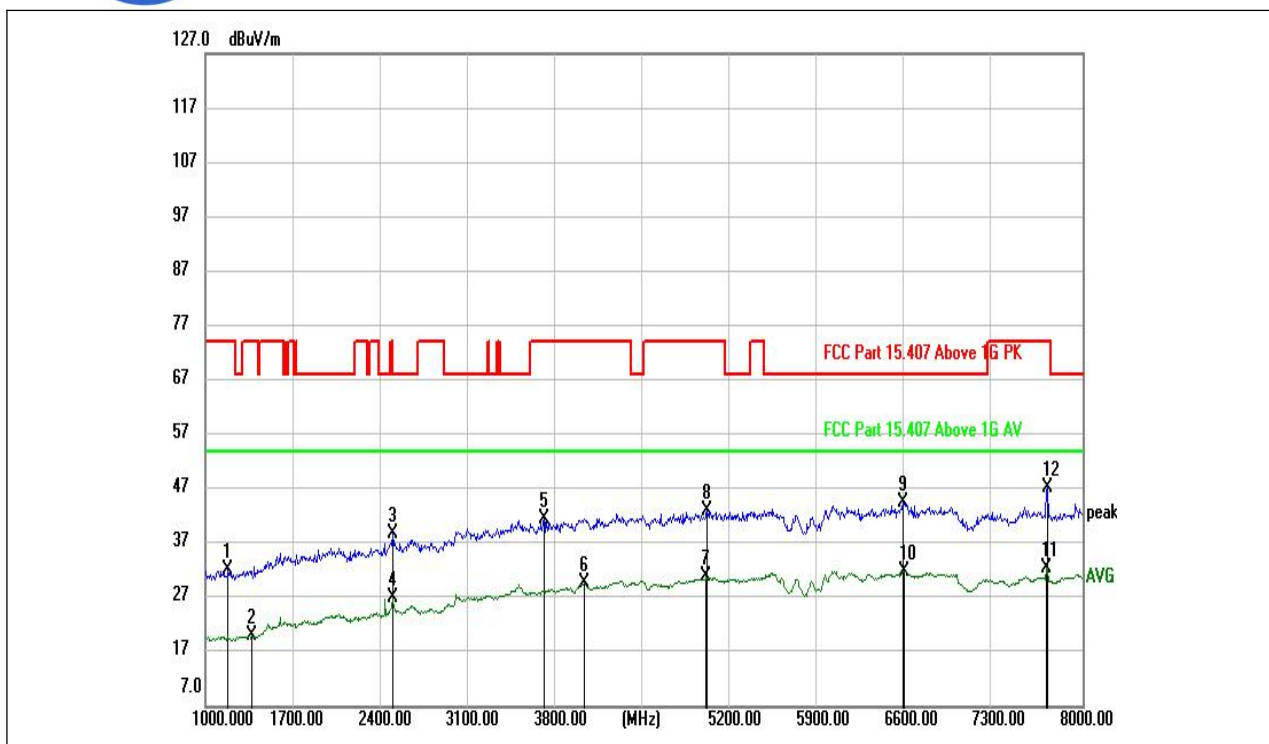
(802.11ac\_5785MHz, Antenna Horizontal, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8190.000        | 45.37            | ---              | 74.00          | 28.63       | H   | 1.61         |
| 8200.000        | ---              | 32.25            | 54.00          | 21.75       | H   | 1.58         |
| 9810.000        | 45.42            | 32.19            | 68.20          | 22.78       | H   | 1.95         |
| 9920.000        | 44.52            | 32.63            | 54.00          | 21.37       | H   | 2.26         |
| 11710.000       | ---              | 32.64            | 54.00          | 21.36       | H   | 4.00         |
| 11890.000       | 44.74            | ---              | 74.00          | 29.26       | H   | 3.96         |
| 13870.000       | ---              | 33.57            | 54.00          | 20.43       | H   | 7.67         |
| 13880.000       | 46.04            | ---              | 68.20          | 22.16       | H   | 7.72         |
| 15910.000       | 49.05            | 35.99            | 74.00          | 24.95       | H   | 11.18        |
| 15940.000       | 48.40            | 36.02            | 54.00          | 17.98       | H   | 11.40        |
| 17600.000       | 49.92            | ---              | 68.20          | 18.28       | H   | 13.43        |
| 17700.000       | ---              | 37.96            | 54.00          | 16.04       | H   | 14.37        |



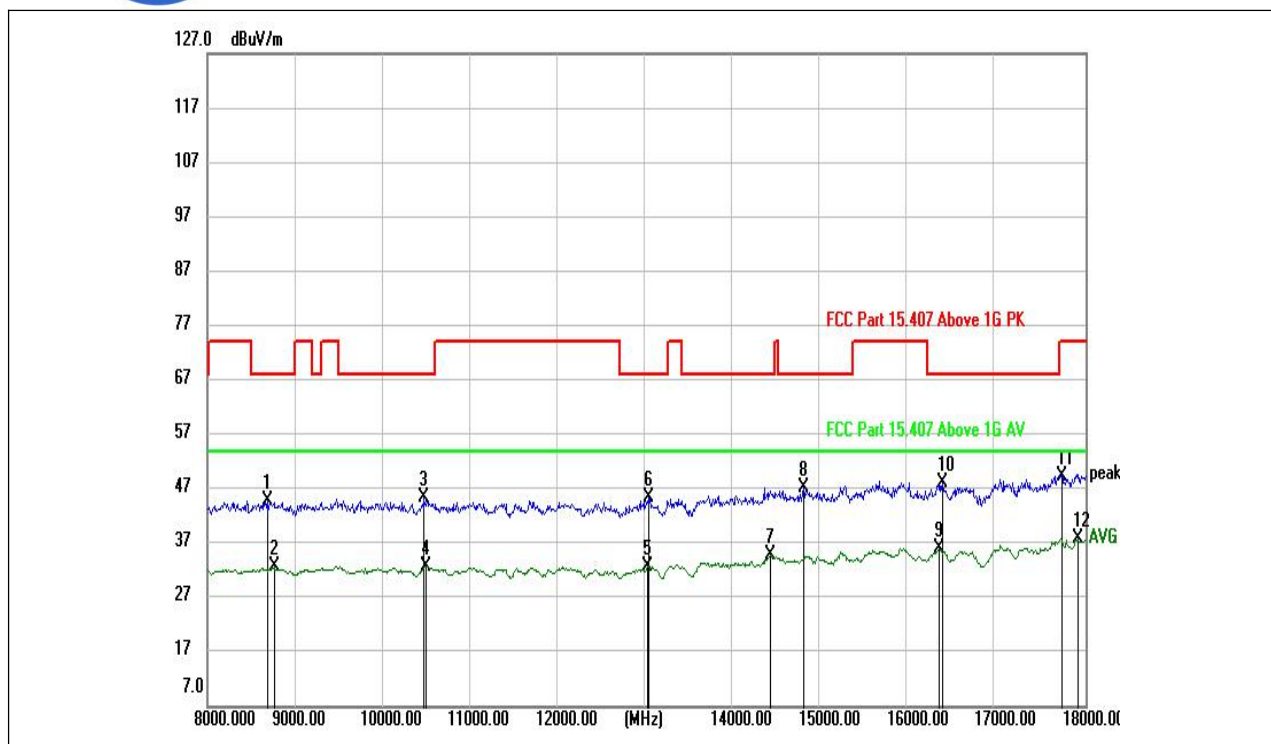
(802.11ac \_5785MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 30.5306         | 34.50            | ---                | 40.00          | 5.50        | V   | 12.9         |
| 39.5757         | 34.36            | ---                | 40.00          | 5.64        | V   | 12.1         |
| 66.9669         | 32.79            | ---                | 40.00          | 7.21        | V   | 14.7         |
| 101.2885        | 32.59            | ---                | 43.50          | 10.91       | V   | 20.7         |
| 200.6881        | 32.58            | ---                | 43.50          | 10.92       | V   | 25.3         |
| 480.5276        | 36.97            | ---                | 46.00          | 9.03        | V   | 28.3         |



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

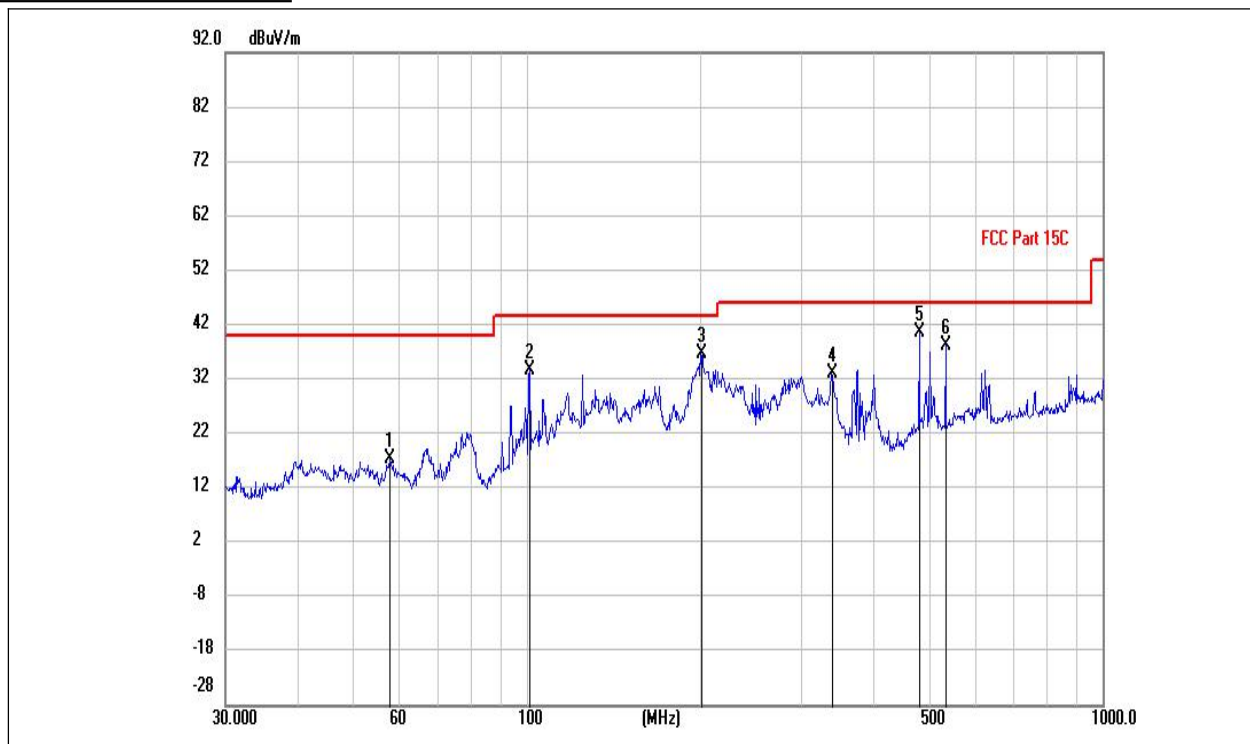
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1182.000        | 32.20            | ---              | 74.00          | 41.80       | V   | -17.80       |
| 1371.000        | ---              | 20.07            | 54.00          | 33.93       | V   | -17.11       |
| 2498.000        | 38.91            | ---              | 74.00          | 35.09       | V   | -9.63        |
| 2498.000        | ---              | 27.04            | 54.00          | 26.96       | V   | -9.63        |
| 3702.000        | 41.54            | ---              | 74.00          | 32.46       | V   | -6.03        |
| 4024.000        | ---              | 29.66            | 54.00          | 24.34       | V   | -4.16        |
| 4997.000        | ---              | 30.86            | 54.00          | 23.14       | V   | -2.72        |
| 5004.000        | 43.01            | ---              | 74.00          | 30.99       | V   | -2.72        |
| 6565.000        | 44.58            | ---              | 68.20          | 23.62       | V   | -1.05        |
| 6579.000        | ---              | 31.95            | 54.00          | 22.05       | V   | -0.89        |
| 7713.000        | ---              | 32.53            | 54.00          | 21.47       | V   | -0.18        |
| 7720.000        | 47.21            | ---              | 74.00          | 26.79       | V   | -0.22        |



(802.11ac\_5785MHz, Antenna Vertical, 8GHz to 18GHz)

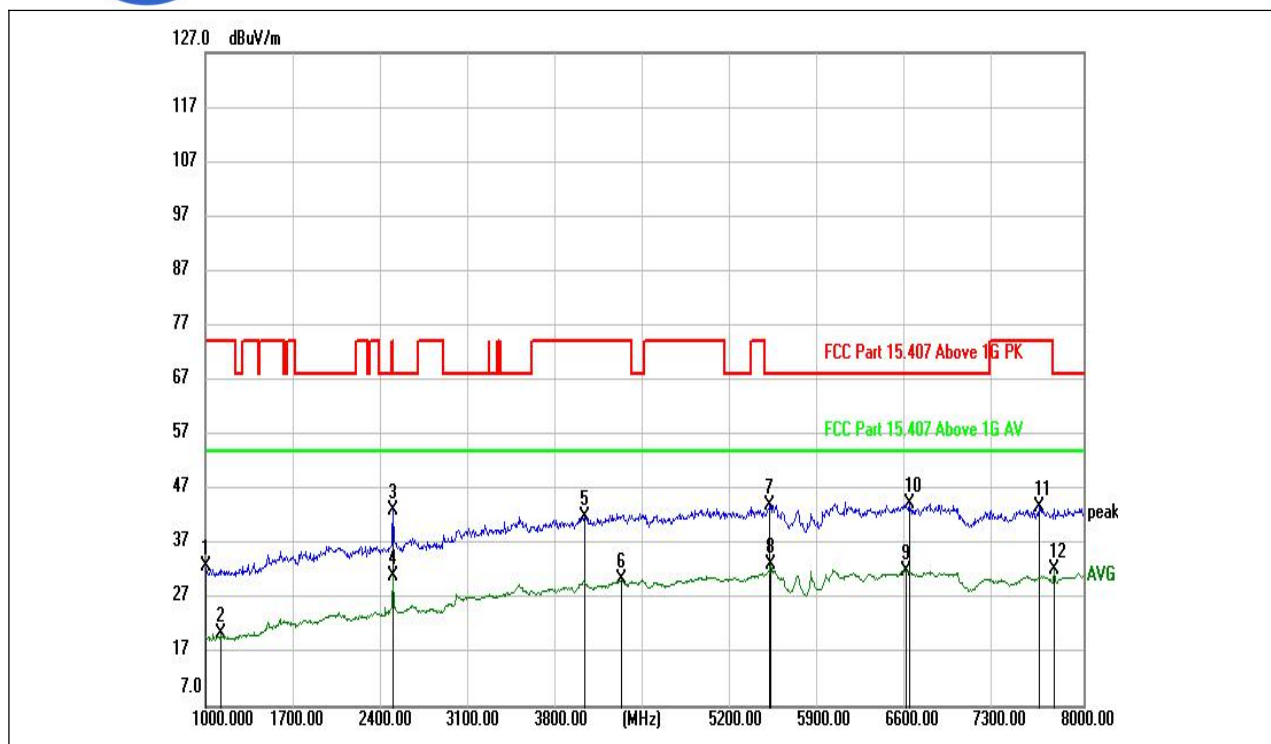
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 9895.294631     | ---              | 31.44            | 54.00          | 22.56       | V   | 2.2          |
| 9895.294631     | 43.84            | ---              | 68.20          | 24.36       | V   | 2.2          |
| 11371.39501     | 44.07            | ---              | 74.00          | 29.93       | V   | 3.5          |
| 11371.39501     | ---              | 31.34            | 54.00          | 22.66       | V   | 3.5          |
| 13420.14765     | 45.06            | ---              | 68.20          | 23.14       | V   | 6.6          |
| 13420.14765     | ---              | 33.07            | 54.00          | 20.93       | V   | 6.6          |
| 14452.10435     | 46.57            | ---              | 68.20          | 21.63       | V   | 8.4          |
| 14452.10435     | ---              | 34.02            | 54.00          | 19.98       | V   | 8.4          |
| 16383.35390     | ---              | 36.16            | 54.00          | 17.84       | V   | 11.5         |
| 16383.35390     | 48.36            | ---              | 68.20          | 19.84       | V   | 11.5         |
| 17645.61675     | 49.75            | ---              | 68.20          | 18.45       | V   | 13.8         |
| 17645.61675     | ---              | 37.40            | 54.00          | 16.60       | V   | 13.8         |

Plot for Channel = 165



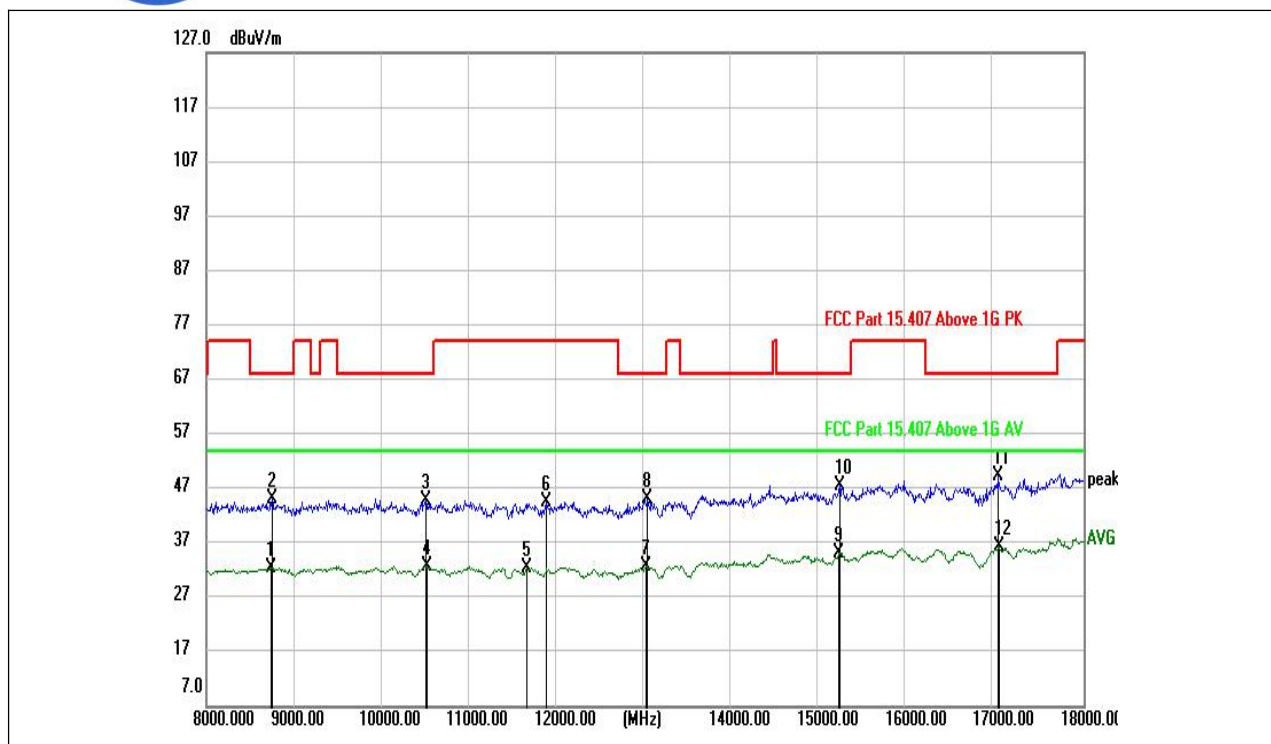
(802.11ac \_5825MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 57.7962         | 17.44            | ---                | 40.00          | 22.56       | H   | 14.33        |
| 101.2885        | 33.53            | ---                | 43.50          | 9.97        | H   | 14.92        |
| 200.6881        | 36.58            | ---                | 43.50          | 6.92        | H   | 14.20        |
| 338.4001        | 32.95            | ---                | 46.00          | 13.05       | H   | 18.02        |
| 480.5276        | 40.64            | ---                | 46.00          | 5.36        | H   | 21.47        |
| 533.8321        | 38.10            | ---                | 46.00          | 7.90        | H   | 22.25        |



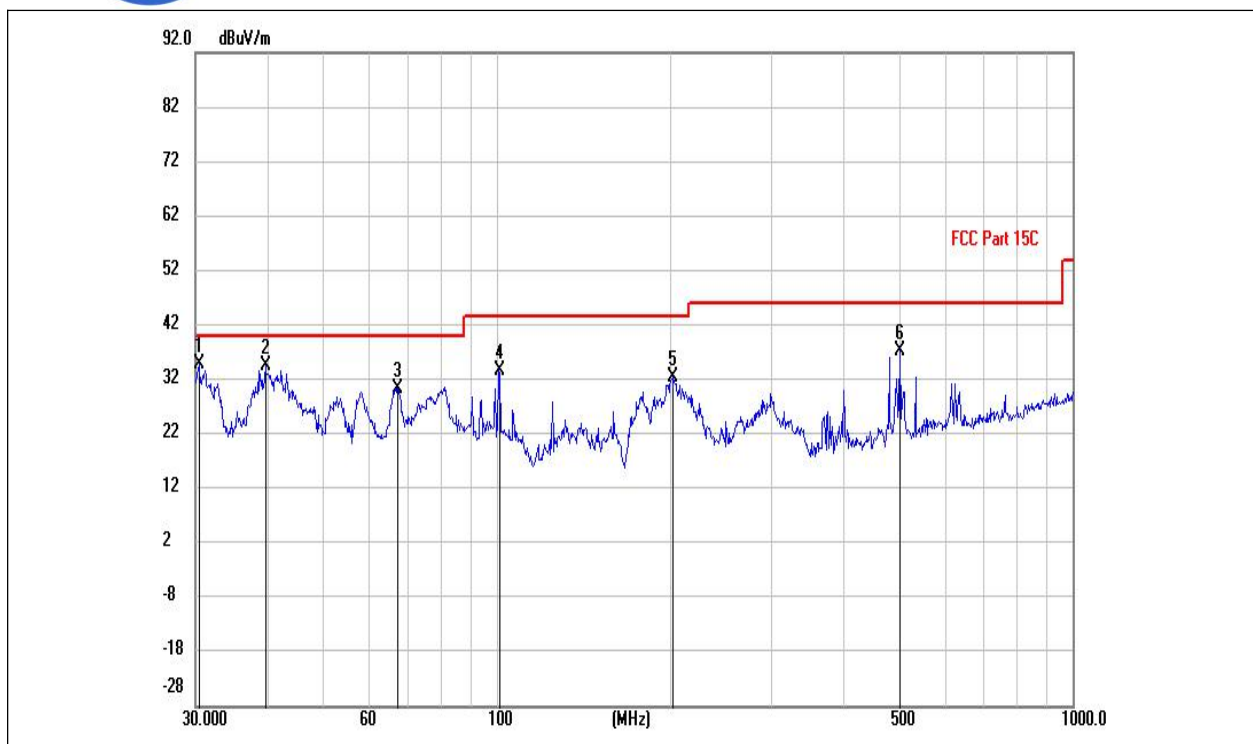
(802.11ac\_5825MHz, Antenna Horizontal, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1000.0000       | 32.81            | ---              | 74.00          | 41.19       | H   | -18.50       |
| 1119.000        | ---              | 20.50            | 54.00          | 33.50       | H   | -17.62       |
| 2498.000        | 42.91            | ---              | 74.00          | 31.09       | H   | -11.31       |
| 2498.000        | ---              | 30.96            | 54.00          | 23.04       | H   | -11.31       |
| 4024.000        | 41.74            | ---              | 74.00          | 32.26       | H   | -5.56        |
| 4318.000        | ---              | 30.44            | 54.00          | 23.56       | H   | -3.44        |
| 5501.000        | 43.94            | ---              | 68.20          | 24.26       | H   | -3.25        |
| 5508.000        | ---              | 33.14            | 54.00          | 20.86       | H   | -3.12        |
| 6586.000        | ---              | 32.02            | 54.00          | 21.98       | H   | -0.99        |
| 6614.000        | 44.31            | ---              | 68.20          | 23.89       | H   | -1.05        |
| 7650.000        | 43.74            | ---              | 74.00          | 30.26       | H   | 0.27         |
| 7769.000        | ---              | 32.25            | 54.00          | 21.75       | H   | -0.20        |



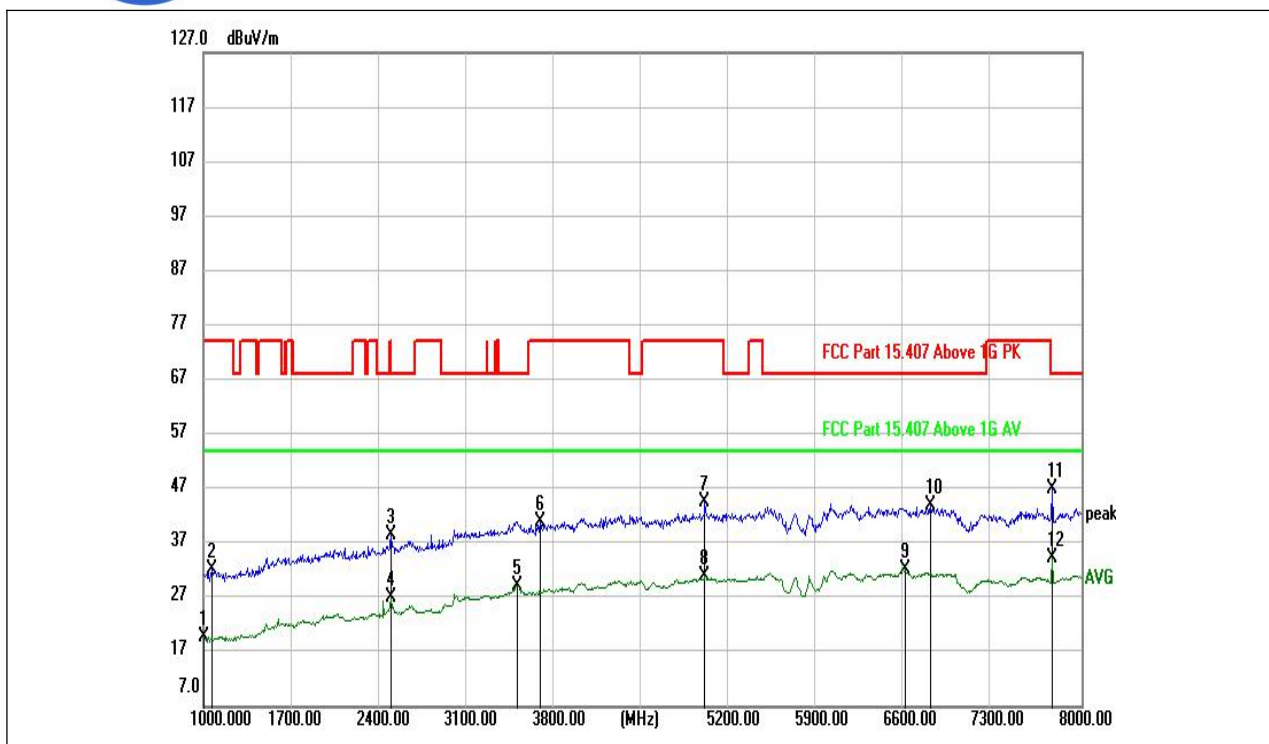
(802.11ac\_5825MHz, Antenna Horizontal, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8740.000        | ---              | 32.54            | 54.00          | 21.46       | H   | 1.67         |
| 8750.000        | 45.03            | ---              | 68.20          | 23.17       | H   | 1.66         |
| 10500.000       | 44.71            | ---              | 68.20          | 23.49       | H   | 3.19         |
| 10510.000       | ---              | 32.82            | 54.00          | 21.18       | H   | 3.15         |
| 11660.000       | ---              | 32.47            | 54.00          | 21.53       | H   | 3.65         |
| 11880.000       | 44.58            | ---              | 74.00          | 29.42       | H   | 4.02         |
| 13010.000       | ---              | 32.86            | 54.00          | 21.14       | H   | 6.06         |
| 13030.000       | 45.05            | ---              | 68.20          | 23.15       | H   | 6.19         |
| 15210.000       | ---              | 35.23            | 54.00          | 18.77       | H   | 10.03        |
| 15220.000       | 47.44            | ---              | 68.20          | 20.76       | H   | 10.02        |
| 17030.000       | 49.32            | ---              | 68.20          | 18.88       | H   | 11.09        |
| 17040.000       | ---              | 36.45            | 54.00          | 17.55       | H   | 11.08        |



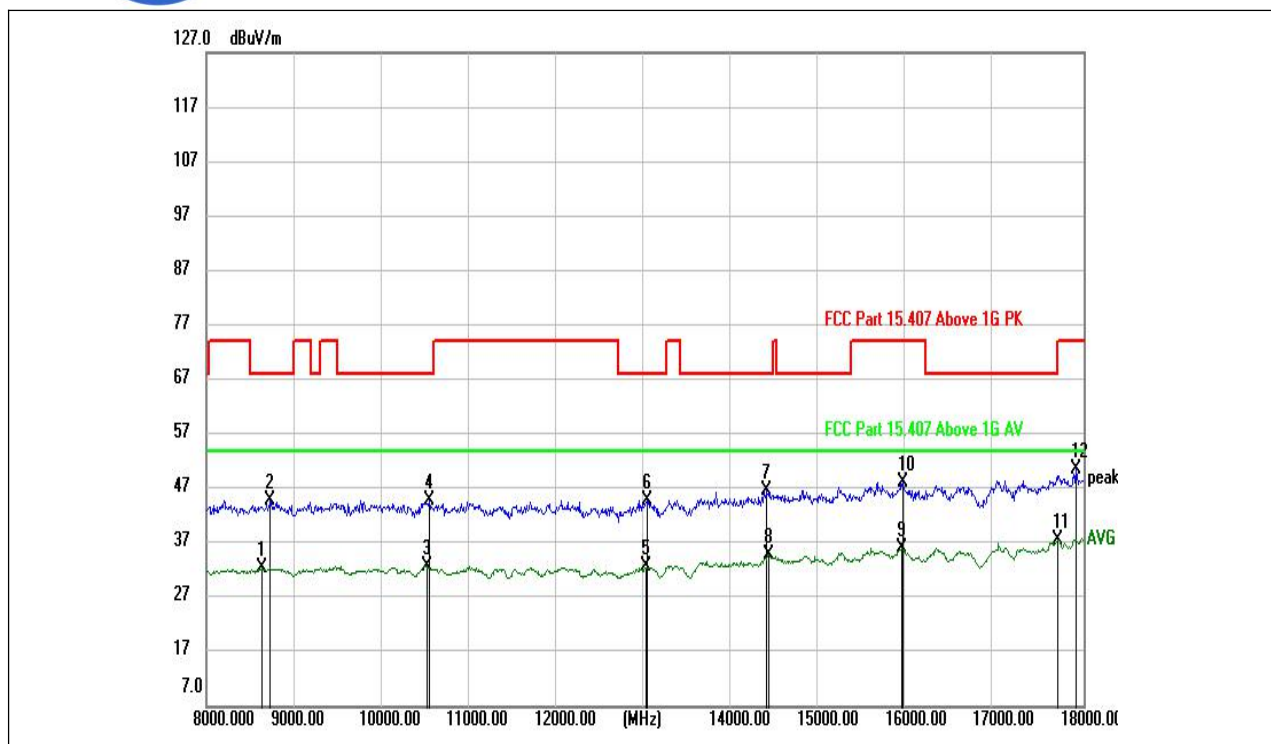
(802.11ac \_5825MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | QuasiPeak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Pol | Corr.<br>(dB/m) |
|--------------------|---------------------|-----------------------|-------------------|----------------|-----|-----------------|
| 30.4238            | 34.84               | ---                   | 40.00             | 5.16           | V   | 13.14           |
| 39.7147            | 34.51               | ---                   | 40.00             | 5.49           | V   | 15.27           |
| 67.4382            | 30.45               | ---                   | 40.00             | 9.55           | V   | 12.60           |
| 100.9340           | 33.73               | ---                   | 43.50             | 9.77           | V   | 15.00           |
| 202.1005           | 32.45               | ---                   | 43.50             | 11.05          | V   | 13.95           |
| 501.1790           | 37.21               | ---                   | 46.00             | 8.79           | V   | 22.00           |



(802.11ac\_5825MHz, Antenna Vertical , 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1007.000        | ---              | 19.95            | 54.00          | 34.05       | V   | -17.70       |
| 1070.000        | 32.03            | ---              | 74.00          | 41.97       | V   | -17.96       |
| 2498.000        | 38.55            | ---              | 74.00          | 35.45       | V   | -9.63        |
| 2498.000        | ---              | 27.06            | 54.00          | 26.94       | V   | -9.63        |
| 3506.000        | ---              | 29.23            | 54.00          | 24.77       | V   | -5.42        |
| 3688.000        | 41.00            | ---              | 74.00          | 33.00       | V   | -6.16        |
| 4997.000        | 44.56            | ---              | 74.00          | 29.44       | V   | -2.72        |
| 4997.000        | ---              | 30.90            | 54.00          | 23.10       | V   | -2.72        |
| 6593.000        | ---              | 32.12            | 54.00          | 21.88       | V   | -0.82        |
| 6796.000        | 43.79            | ---              | 68.20          | 24.41       | V   | -1.48        |
| 7769.000        | 47.03            | ---              | 68.20          | 21.17       | V   | -0.20        |
| 7769.000        | ---              | 34.15            | 54.00          | 19.85       | V   | -0.20        |



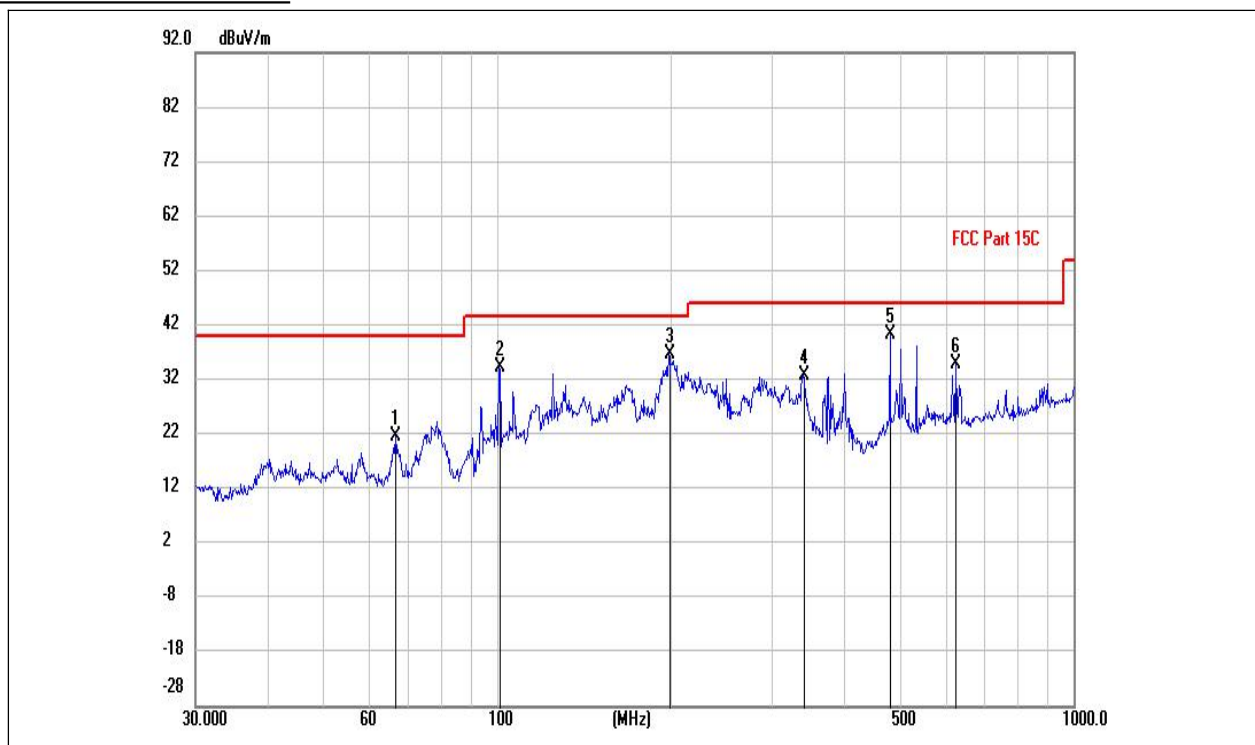
(802.11ac\_5825MHz, Antenna Vertical, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8640.000        | ---              | 32.55            | 54.00          | 21.45       | V   | 1.53         |
| 8730.000        | 44.75            | ---              | 68.20          | 23.45       | V   | 1.69         |
| 10510.000       | ---              | 32.89            | 54.00          | 21.11       | V   | 3.87         |
| 10540.000       | 44.85            | ---              | 68.20          | 23.35       | V   | 3.37         |
| 13010.000       | ---              | 32.63            | 54.00          | 21.37       | V   | 5.87         |
| 13020.000       | 44.80            | ---              | 68.20          | 23.40       | V   | 5.94         |
| 14390.000       | 46.56            | ---              | 68.20          | 21.64       | V   | 9.03         |
| 14410.000       | ---              | 35.04            | 54.00          | 18.96       | V   | 8.96         |
| 15930.000       | ---              | 36.20            | 54.00          | 17.80       | V   | 11.26        |
| 15940.000       | 48.14            | ---              | 74.00          | 25.86       | V   | 11.33        |
| 17700.000       | ---              | 37.67            | 54.00          | 16.33       | V   | 14.37        |
| 17910.000       | 50.62            | ---              | 74.00          | 23.38       | V   | 15.28        |



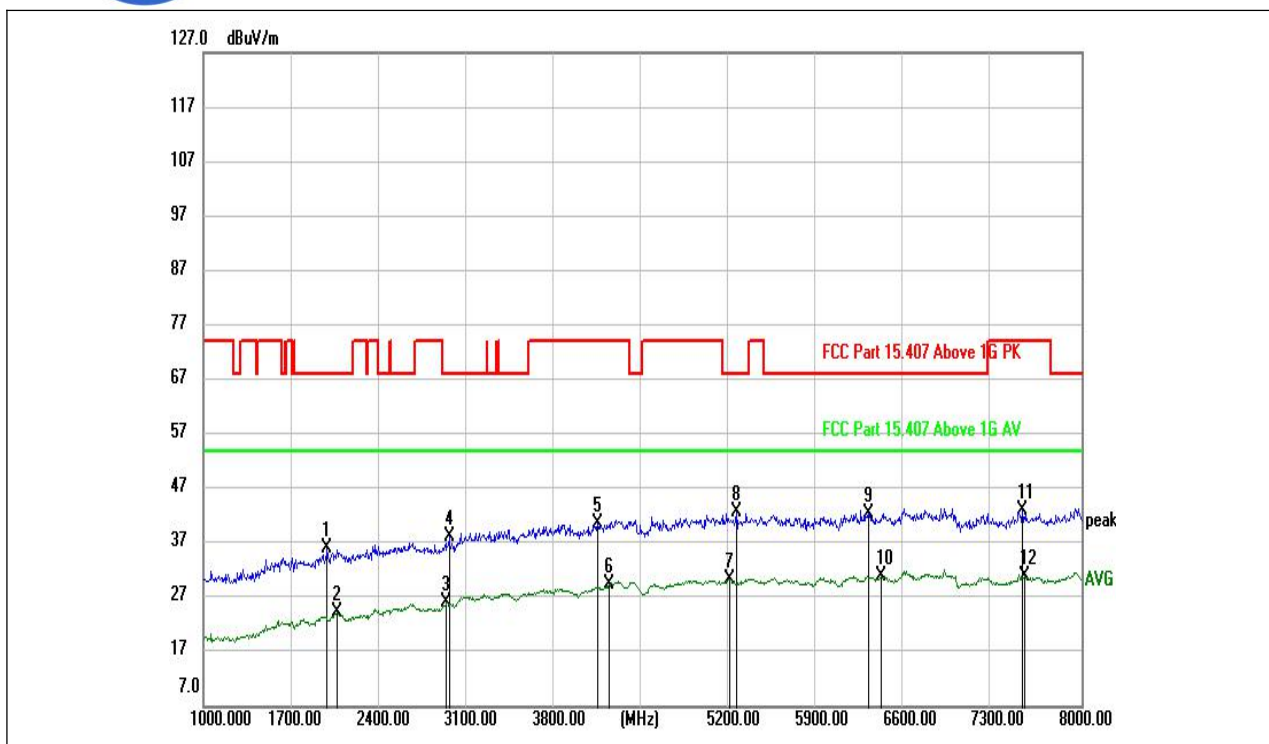
# 802.11ac (HT40) Test mode

Plots for Channel = 38



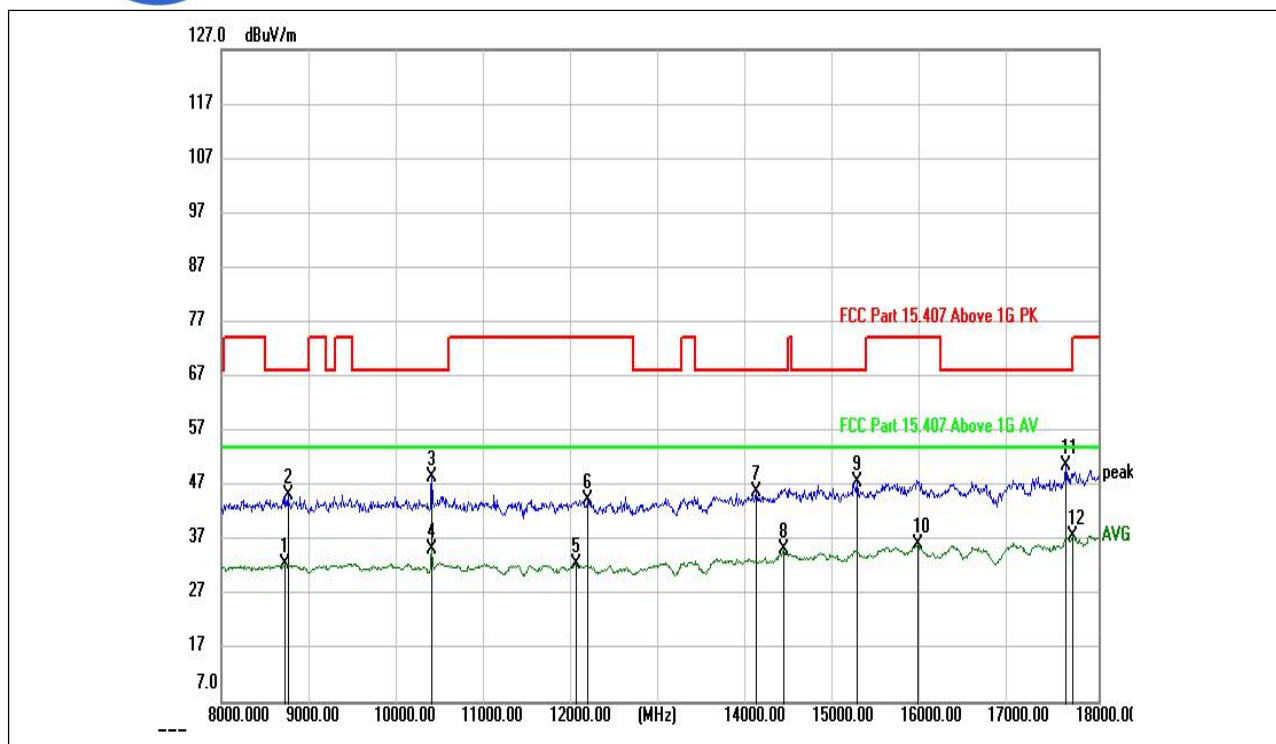
(802.11ac \_5190MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 66.7325         | 21.59            | ---                | 40.00          | 18.41       | H   | 12.80        |
| 100.9340        | 34.25            | ---                | 43.50          | 9.25        | H   | 15.00        |
| 198.5880        | 36.63            | ---                | 43.50          | 6.87        | H   | 14.08        |
| 339.5888        | 32.71            | ---                | 46.00          | 13.29       | H   | 18.21        |
| 480.5276        | 40.17            | ---                | 46.00          | 5.83        | H   | 21.47        |
| 625.0780        | 34.87            | ---                | 46.00          | 11.13       | H   | 23.84        |



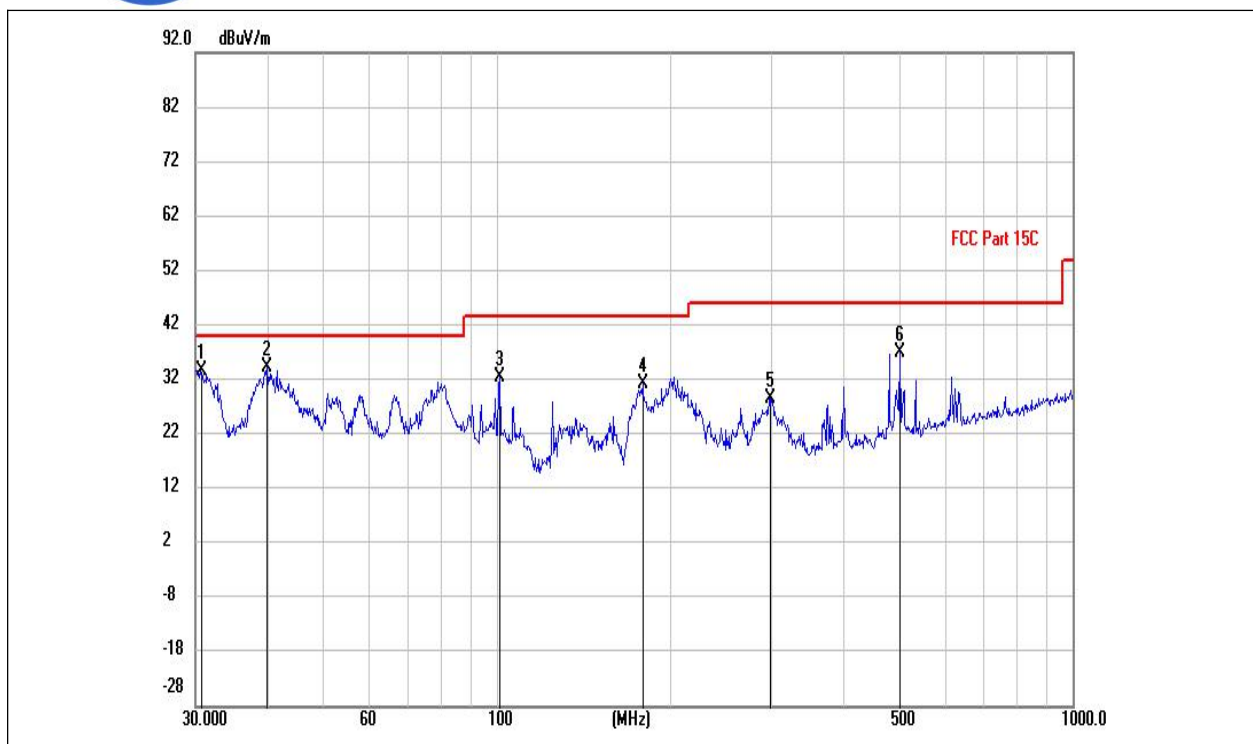
(802.11ac\_5190MHz, Antenna Horizontal, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1987.000        | 36.01            | ---              | 68.20          | 32.19       | H   | -12.64       |
| 2064.000        | ---              | 24.45            | 54.00          | 29.55       | H   | -11.69       |
| 2939.000        | ---              | 26.05            | 54.00          | 27.95       | H   | -9.24        |
| 2960.000        | 38.28            | ---              | 68.20          | 29.92       | H   | -8.93        |
| 4143.000        | 40.62            | ---              | 74.00          | 33.38       | H   | -4.90        |
| 4234.000        | ---              | 29.45            | 54.00          | 24.55       | H   | -4.44        |
| 5193.000        | ---              | 30.44            | 54.00          | 23.56       | H   | -3.03        |
| 5249.000        | 42.68            | ---              | 68.20          | 25.52       | H   | -3.00        |
| 6299.000        | 42.41            | ---              | 68.20          | 25.79       | H   | -1.57        |
| 6404.000        | ---              | 30.88            | 54.00          | 23.12       | H   | -1.82        |
| 7531.000        | 43.15            | ---              | 74.00          | 30.85       | H   | -0.03        |
| 7545.000        | ---              | 30.95            | 54.00          | 23.05       | H   | -0.01        |



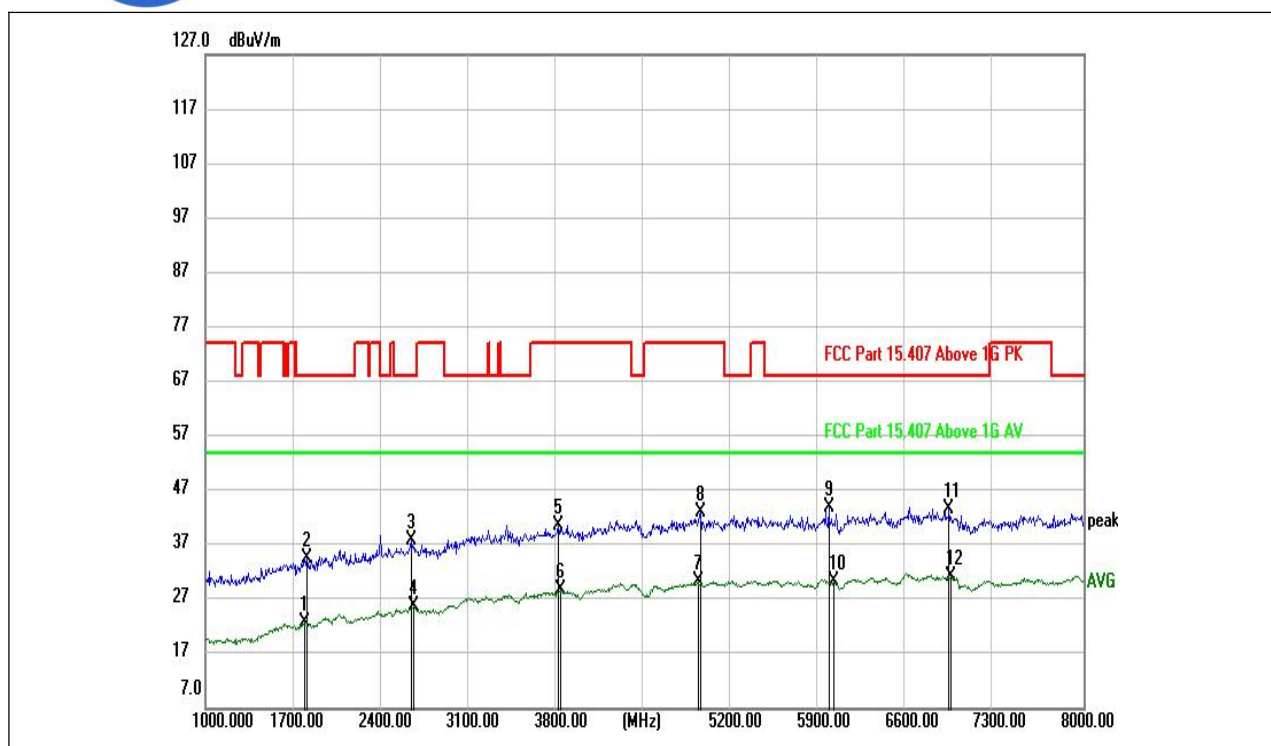
(802.11ac \_5190MHz, Antenna Horizontal, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8730.000        | ---              | 32.45            | 54.00          | 21.55       | H   | 1.69         |
| 8760.000        | 45.20            | ---              | 68.20          | 23.00       | H   | 1.65         |
| 10400.000       | 48.31            | ---              | 68.20          | 19.89       | H   | 2.38         |
| 10400.000       | ---              | 35.31            | 54.00          | 18.69       | H   | 2.38         |
| 12050.000       | ---              | 32.55            | 54.00          | 21.45       | H   | 4.58         |
| 12180.000       | 44.23            | ---              | 74.00          | 29.77       | H   | 4.39         |
| 14100.000       | 45.81            | ---              | 68.20          | 22.39       | H   | 8.19         |
| 14410.000       | ---              | 35.11            | 54.00          | 18.89       | H   | 8.84         |
| 15250.000       | 47.55            | ---              | 68.20          | 20.65       | H   | 10.02        |
| 15940.000       | ---              | 32.45            | 54.00          | 17.95       | H   | 11.40        |
| 17630.000       | 50.65            | ---              | 68.20          | 17.55       | H   | 13.61        |
| 17700.000       | ---              | 37.74            | 54.00          | 16.26       | H   | 14.37        |



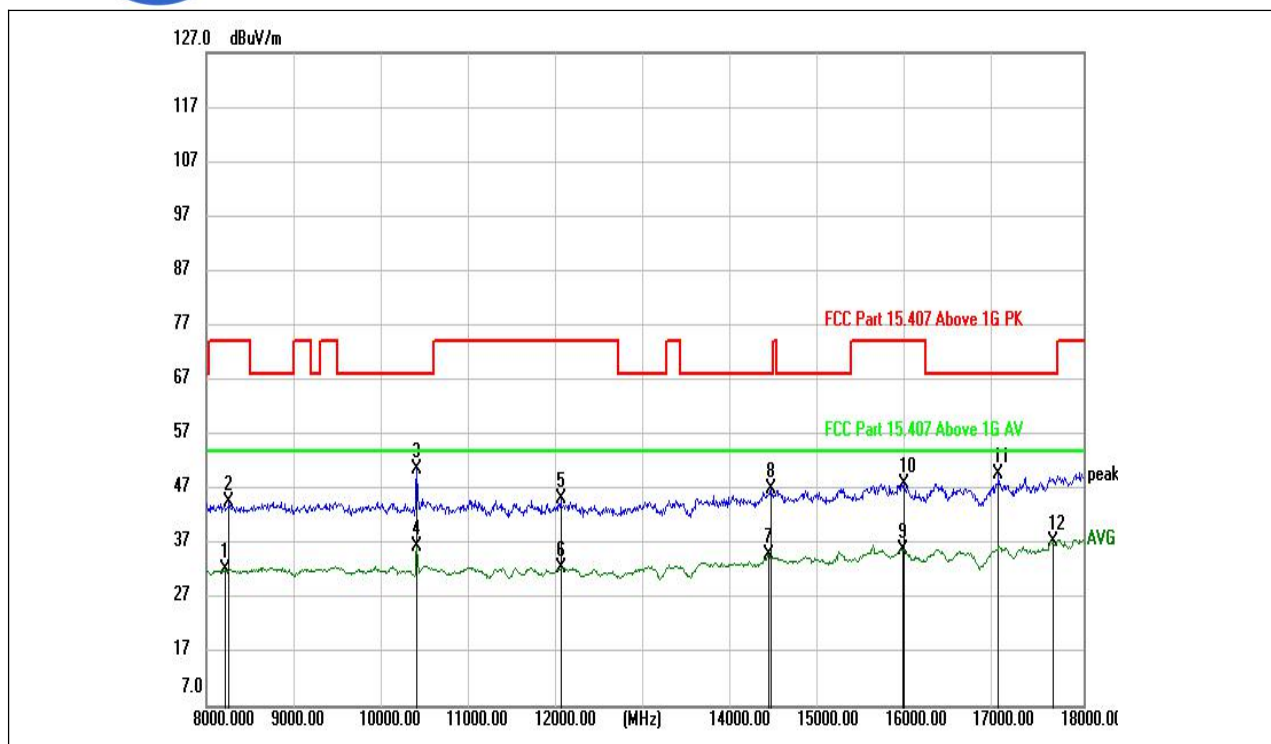
(802.11ac\_5190MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | QuasiPeak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Pol | Corr.<br>(dB/m) |
|--------------------|---------------------|-----------------------|-------------------|----------------|-----|-----------------|
| 30.6379            | 33.80               | ---                   | 40.00             | 6.20           | V   | 12.76           |
| 39.9942            | 34.35               | ---                   | 40.00             | 5.65           | V   | 15.69           |
| 101.2885           | 32.42               | ---                   | 43.50             | 11.08          | V   | 14.92           |
| 179.3864           | 31.13               | ---                   | 43.50             | 12.37          | V   | 12.63           |
| 299.3158           | 28.52               | ---                   | 46.00             | 17.48          | V   | 17.28           |
| 501.1790           | 37.03               | ---                   | 46.00             | 8.97           | V   | 22.00           |



(802.11ac\_5190MHz, Antenna Vertical, 1GHz to 8GHz)

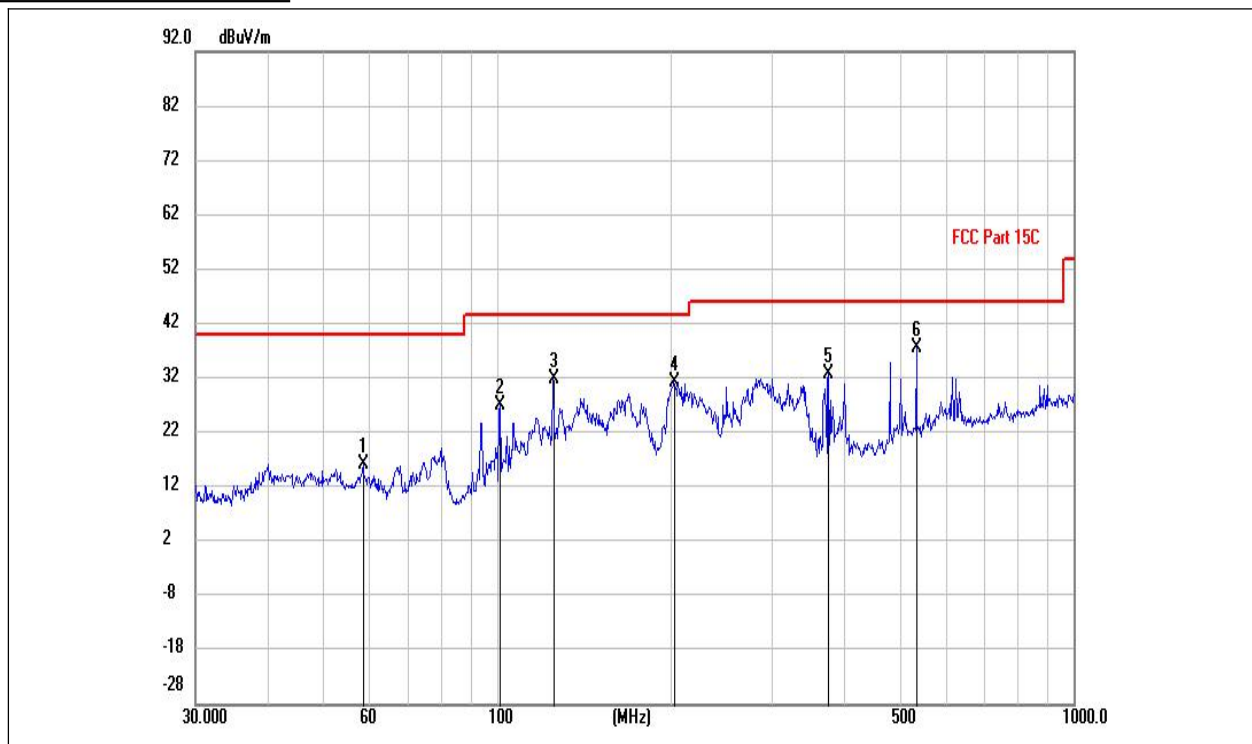
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1791.000        | ---              | 22.91            | 54.00          | 31.09       | V   | -13.77       |
| 1812.000        | 34.59            | ---              | 68.20          | 33.61       | V   | -14.15       |
| 2638.000        | 37.86            | ---              | 68.20          | 30.34       | V   | -9.68        |
| 2659.000        | ---              | 25.70            | 54.00          | -28.30      | V   | -9.64        |
| 3814.000        | 40.66            | ---              | 74.00          | -33.34      | V   | -5.78        |
| 3835.000        | ---              | 28.82            | 54.00          | -25.18      | V   | -5.65        |
| 4934.000        | ---              | 30.25            | 54.00          | -23.75      | V   | -2.79        |
| 4948.000        | 43.06            | ---              | 74.00          | -30.94      | V   | -2.65        |
| 5970.000        | 43.99            | ---              | 68.20          | -24.21      | V   | -1.97        |
| 6012.000        | ---              | 30.30            | 54.00          | -23.70      | V   | -1.35        |
| 6929.000        | 43.66            | ---              | 68.20          | -24.54      | V   | -1.22        |
| 6943.000        | ---              | 31.30            | 54.00          | -22.70      | V   | -1.24        |



(802.11n \_5190MHz, Antenna Vertical, 8GHz to 18GHz)

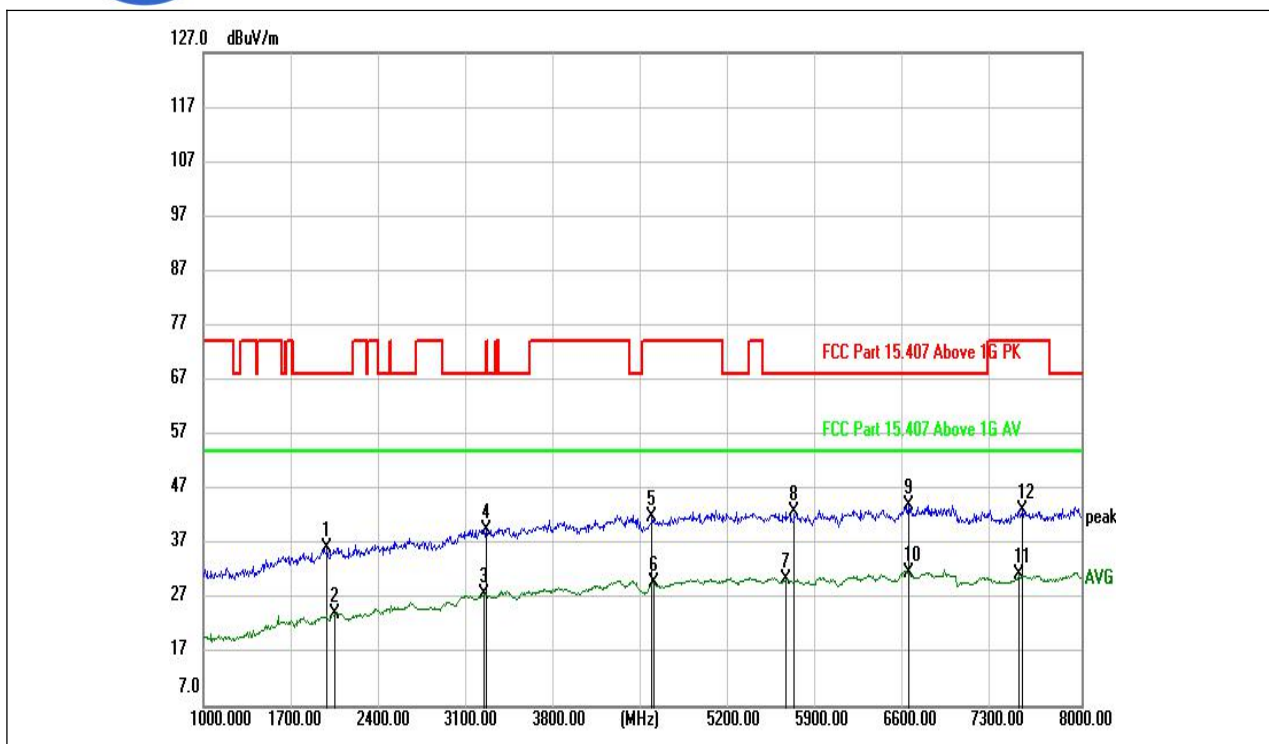
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8220.000        | ---              | 32.19            | 54.00          | 21.81       | V   | 1.44         |
| 8260.000        | 44.60            | ---              | 74.00          | 29.40       | V   | 1.28         |
| 10400.000       | 50.66            | ---              | 68.20          | 17.54       | V   | 2.38         |
| 10400.000       | ---              | 36.52            | 54.00          | 17.48       | V   | 2.38         |
| 12040.000       | 45.16            | ---              | 74.00          | 28.84       | V   | 5.04         |
| 12050.000       | ---              | 32.48            | 54.00          | 21.52       | V   | 5.10         |
| 14410.000       | ---              | 34.94            | 54.00          | 19.06       | V   | 8.96         |
| 14440.000       | 46.90            | ---              | 68.20          | 21.30       | V   | 8.96         |
| 15940.000       | ---              | 35.90            | 54.00          | 18.10       | V   | 11.33        |
| 15950.000       | 47.83            | ---              | 74.00          | 26.17       | V   | 11.40        |
| 17030.000       | 49.65            | ---              | 68.20          | 18.55       | V   | 12.62        |
| 17650.000       | ---              | 37.23            | 54.00          | 16.77       | V   | 13.83        |

# Plots for Channel = 46



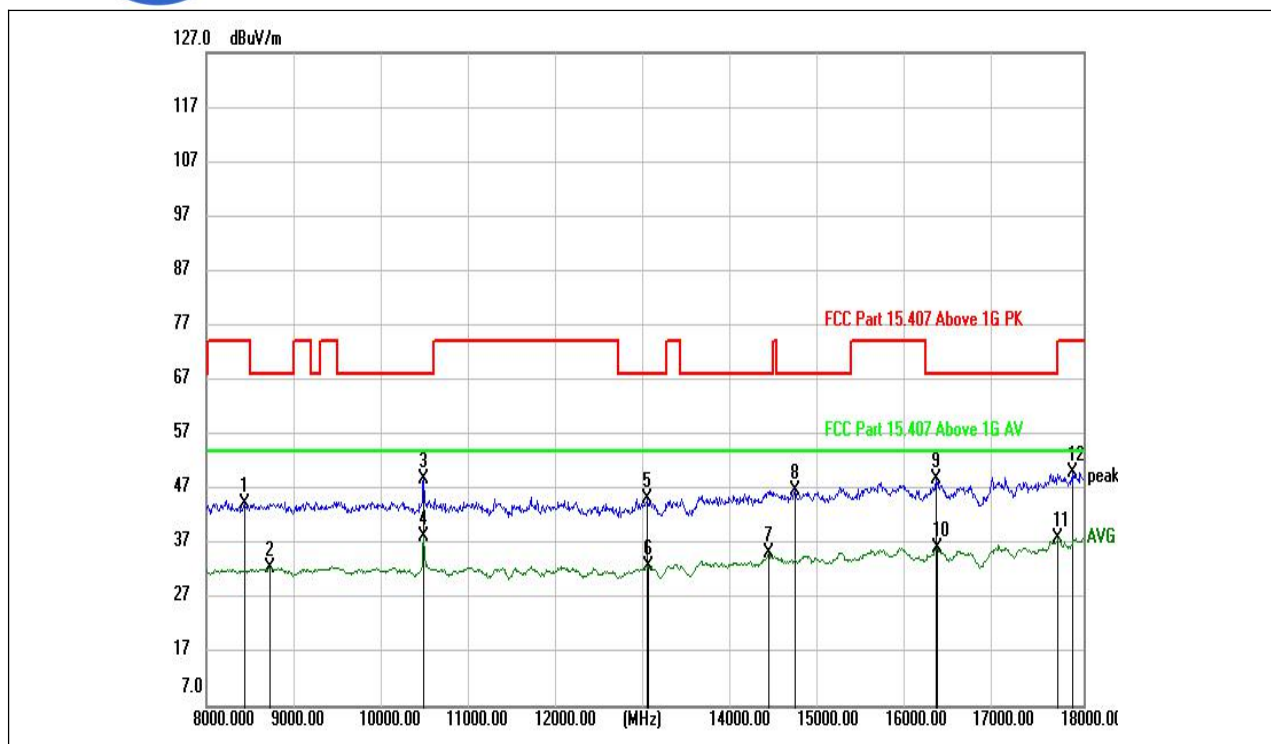
(802.11ac \_5230MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 58.6126         | 16.24            | ---                | 40.00          | 23.76       | H   | 14.43        |
| 101.2885        | 27.01            | ---                | 43.50          | 16.49       | H   | 14.92        |
| 125.0066        | 31.97            | ---                | 43.50          | 11.53       | H   | 11.12        |
| 202.8104        | 31.26            | ---                | 43.50          | 12.24       | H   | 13.86        |
| 375.9385        | 32.63            | ---                | 46.00          | 13.37       | H   | 18.54        |
| 533.8321        | 37.70            | ---                | 46.00          | 8.30        | H   | 22.25        |



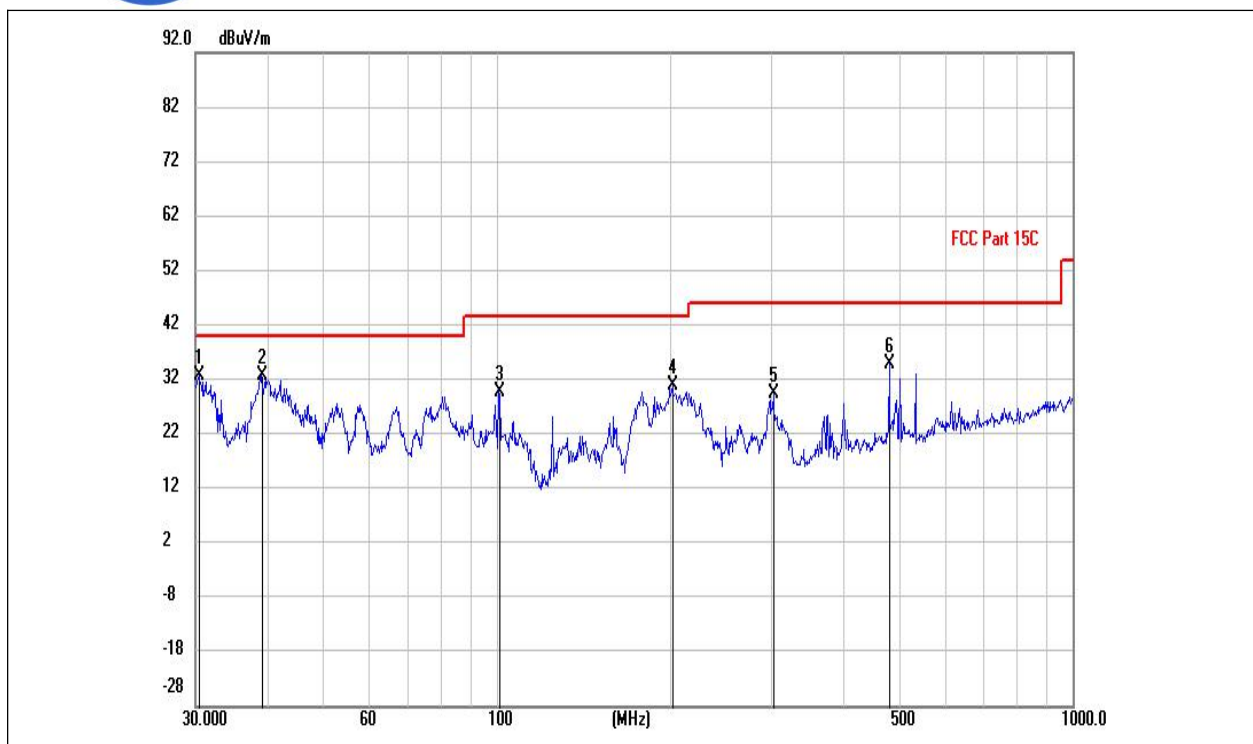
(802.11ac\_5230MHz, Antenna Horizontal, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1987.000        | 36.05            | ---              | 68.20          | 32.15       | H   | -12.64       |
| 2050.000        | ---              | 24.01            | 54.00          | 29.99       | H   | -12.14       |
| 3233.000        | ---              | 27.62            | 54.00          | 26.38       | H   | -7.43        |
| 3254.000        | 39.53            | ---              | 68.20          | 28.67       | H   | -7.35        |
| 4577.000        | 41.77            | ---              | 74.00          | 32.23       | H   | -4.34        |
| 4591.000        | ---              | 29.73            | 54.00          | 24.27       | H   | -4.26        |
| 5648.000        | ---              | 30.36            | 54.00          | 23.64       | H   | -2.57        |
| 5711.000        | 42.58            | ---              | 68.20          | 25.62       | H   | -2.92        |
| 6621.000        | 44.03            | ---              | 68.20          | 24.17       | H   | -1.12        |
| 6621.000        | ---              | 31.59            | 54.00          | 22.41       | H   | -1.12        |
| 7503.000        | ---              | 31.30            | 54.00          | 22.70       | H   | -0.18        |
| 7531.000        | 43.15            | ---              | 74.00          | 30.85       | H   | -0.03        |



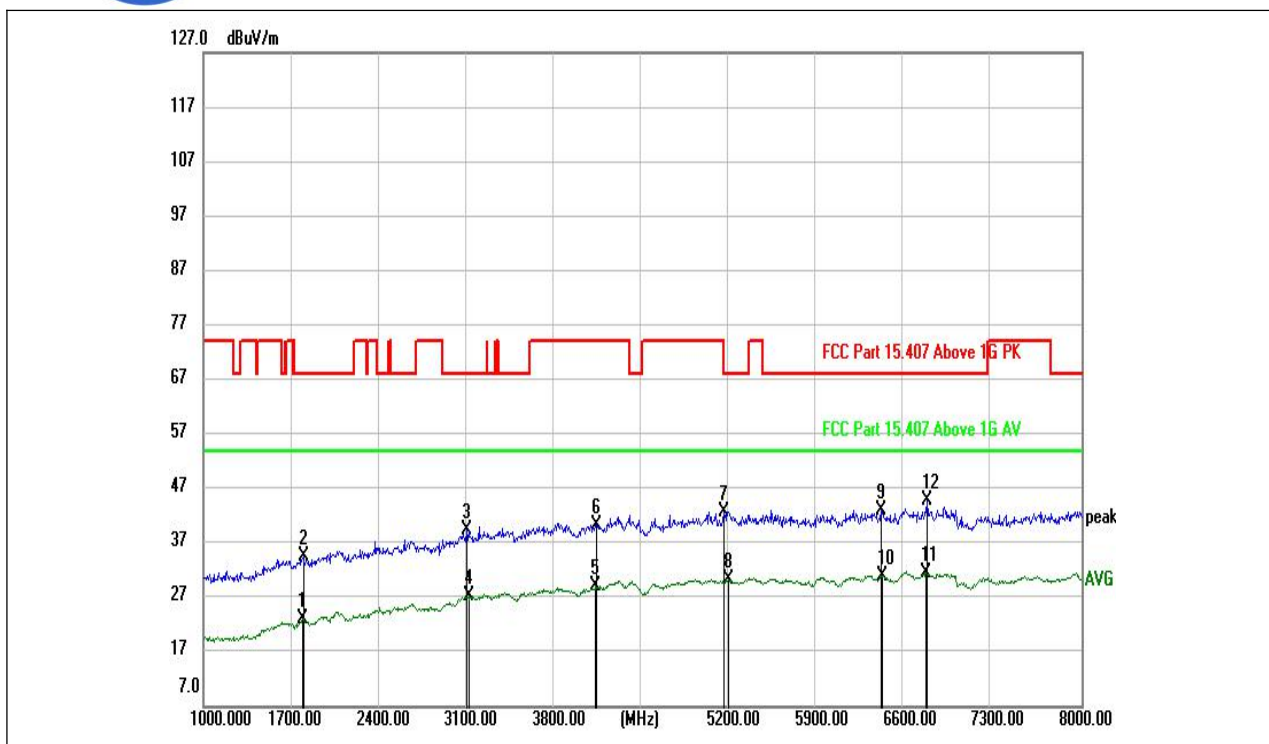
(802.11ac\_5230MHz, Antenna Horizontal, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8440.000        | 44.37            | ---              | 74.00          | 29.63       | H   | 1.20         |
| 8730.000        | ---              | 32.51            | 54.00          | 21.49       | H   | 1.69         |
| 10480.000       | 48.82            | ---              | 68.20          | 19.38       | H   | 3.07         |
| 10480.000       | ---              | 38.10            | 54.00          | 15.90       | H   | 3.07         |
| 13030.000       | 45.11            | ---              | 68.20          | 23.09       | H   | 6.19         |
| 13040.000       | ---              | 32.82            | 54.00          | 21.18       | H   | 6.25         |
| 14410.000       | ---              | 35.07            | 54.00          | 18.93       | H   | 8.84         |
| 14710.000       | 46.57            | ---              | 68.20          | 21.63       | H   | 8.81         |
| 16320.000       | 48.83            | ---              | 68.20          | 19.37       | H   | 11.28        |
| 16330.000       | ---              | 36.24            | 54.00          | 17.76       | H   | 11.33        |
| 17710.000       | ---              | 37.95            | 54.00          | 16.05       | H   | 14.47        |
| 17880.000       | 49.91            | ---              | 74.00          | 24.09       | H   | 15.45        |



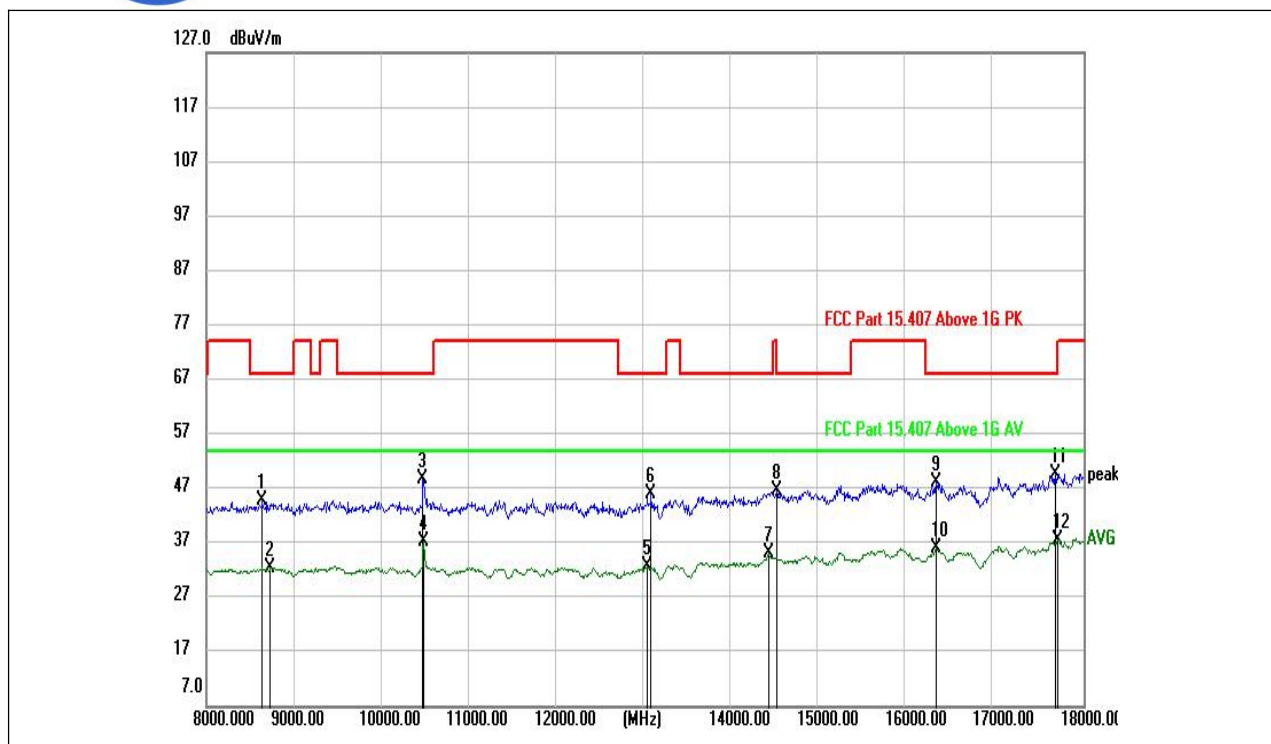
(802.11ac\_5230MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 30.4238         | 32.87            | ---                | 40.00          | 7.13        | V   | 13.14        |
| 39.0245         | 32.67            | ---                | 40.00          | 7.33        | V   | 14.23        |
| 100.9340        | 29.68            | ---                | 43.50          | 13.82       | V   | 15.00        |
| 202.1005        | 31.00            | ---                | 43.50          | 12.50       | V   | 13.95        |
| 302.4812        | 29.32            | ---                | 46.00          | 16.68       | V   | 17.17        |
| 480.5276        | 34.88            | ---                | 46.00          | 11.12       | V   | 21.47        |



(802.11ac\_5230MHz, Antenna Vertical, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1791.000        | ---              | 23.07            | 54.00          | 30.93       | V   | -13.77       |
| 1798.000        | 34.67            | ---              | 68.20          | 33.53       | V   | -13.82       |
| 3100.000        | 39.50            | ---              | 68.20          | 28.70       | V   | -7.88        |
| 3114.000        | ---              | 27.30            | 54.00          | 26.70       | V   | -7.84        |
| 4129.000        | ---              | 29.14            | 54.00          | 24.86       | V   | -5.07        |
| 4136.000        | 40.27            | ---              | 74.00          | 33.73       | V   | -4.99        |
| 5151.000        | 42.82            | ---              | 68.20          | 25.38       | V   | -2.94        |
| 5186.000        | ---              | 30.27            | 54.00          | 23.73       | V   | -3.01        |
| 6404.000        | 43.11            | ---              | 68.20          | 25.09       | V   | -1.77        |
| 6411.000        | ---              | 31.03            | 54.00          | 22.97       | V   | -1.69        |
| 6761.000        | ---              | 31.44            | 54.00          | 22.56       | V   | -1.41        |
| 6768.000        | 44.71            | ---              | 68.20          | 23.49       | V   | -1.41        |



(802.11ac\_5230MHz, Antenna Vertical, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8640.000        | 44.76            | ---              | 68.20          | 23.44       | V   | 1.53         |
| 8730.000        | ---              | 32.55            | 54.00          | 21.45       | V   | 1.69         |
| 10470.000       | 48.81            | ---              | 68.20          | 19.39       | V   | 3.02         |
| 10480.000       | ---              | 37.38            | 54.00          | 16.62       | V   | 3.07         |
| 13020.000       | 32.70            | 32.70            | 54.00          | 21.30       | V   | 6.12         |
| 13070.000       | ---              | ---              | 68.20          | 22.19       | V   | 6.26         |
| 14410.000       | 35.05            | 35.05            | 54.00          | 18.95       | V   | 8.84         |
| 14500.000       | 46.75            | ---              | 68.20          | 21.45       | V   | 7.93         |
| 16320.000       | 48.18            | ---              | 68.20          | 20.02       | V   | 11.28        |
| 16320.000       | ---              | 36.03            | 54.00          | 17.97       | V   | 11.28        |
| 17680.000       | 49.64            | ---              | 68.20          | 18.56       | V   | 14.16        |
| 17700.000       | ---              | 37.75            | 54.00          | 16.25       | V   | 14.37        |

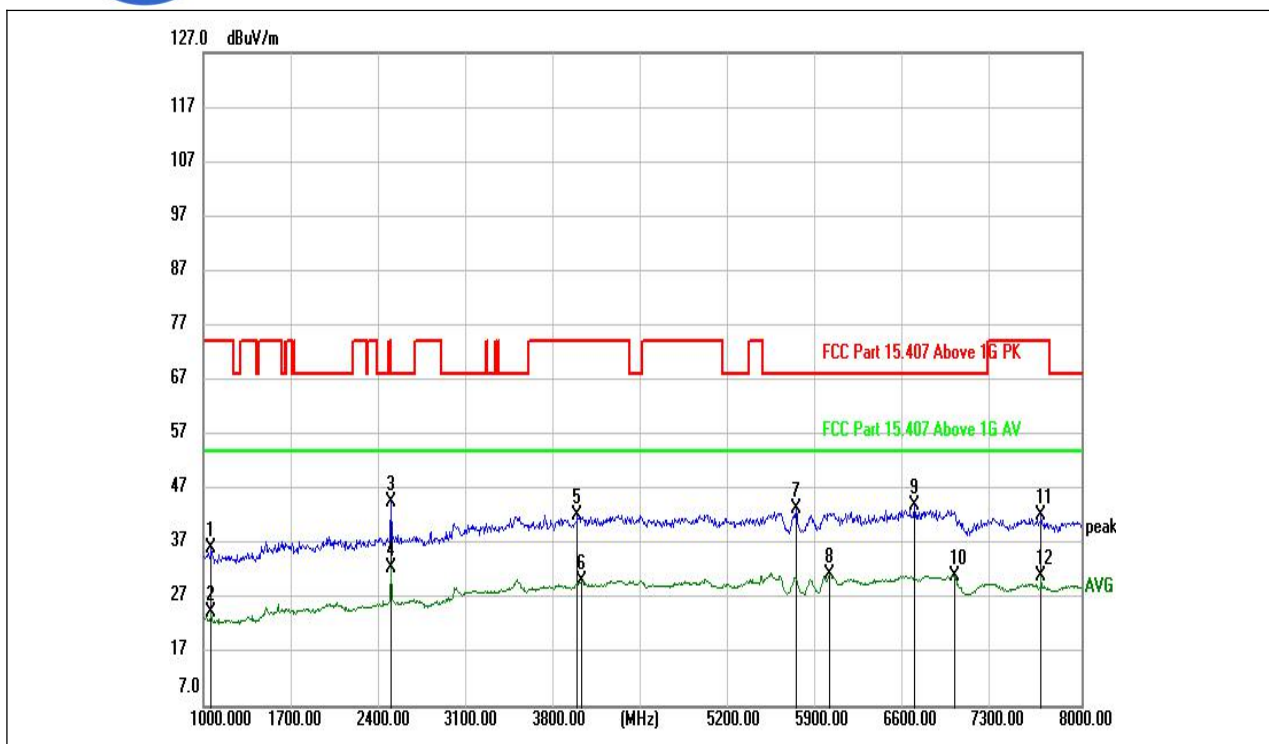


Plot for Channel = 151



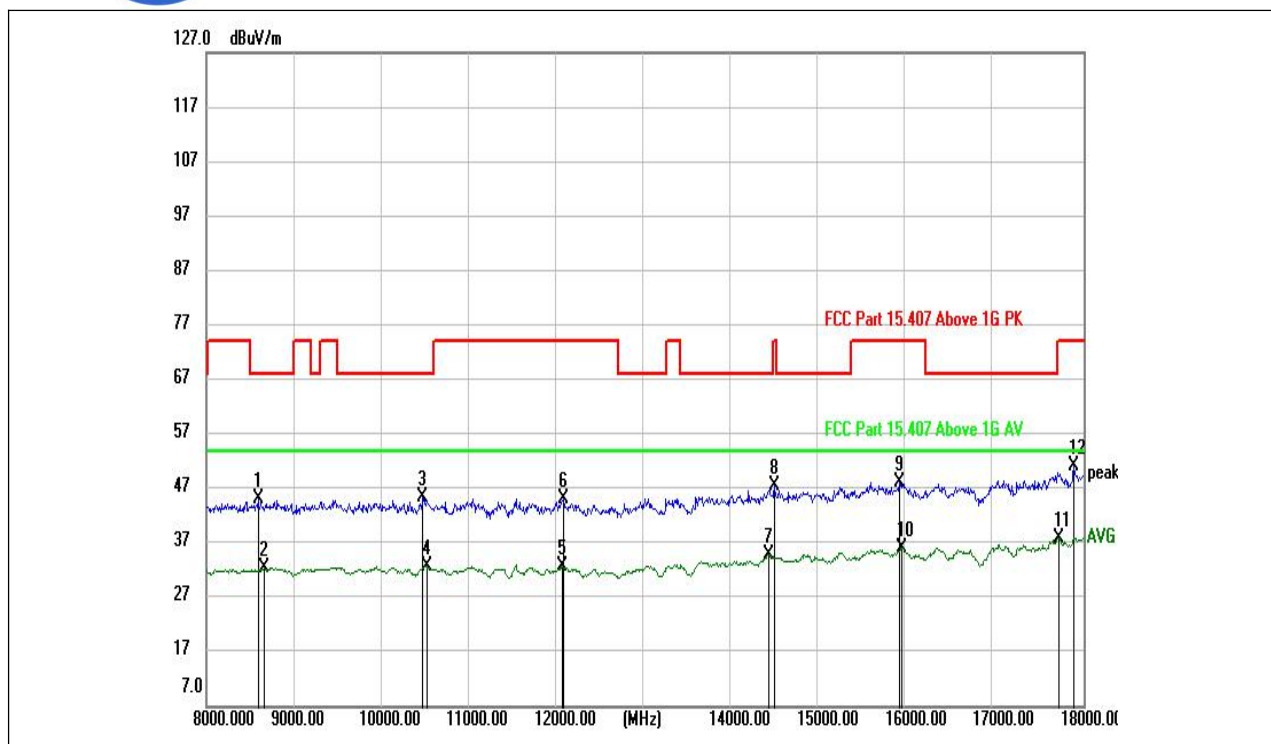
(802.11ac \_5755MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 39.7147         | 15.85            | ---                | 40.00          | 24.15       | H   | 15.27        |
| 79.8003         | 19.82            | ---                | 40.00          | 20.18       | H   | 10.84        |
| 125.0066        | 32.70            | ---                | 43.50          | 10.80       | H   | 11.12        |
| 200.6881        | 30.47            | ---                | 43.50          | 13.03       | H   | 14.20        |
| 375.9385        | 32.13            | ---                | 46.00          | 13.87       | H   | 18.54        |
| 533.8321        | 36.68            | ---                | 46.00          | 9.32        | H   | 22.25        |



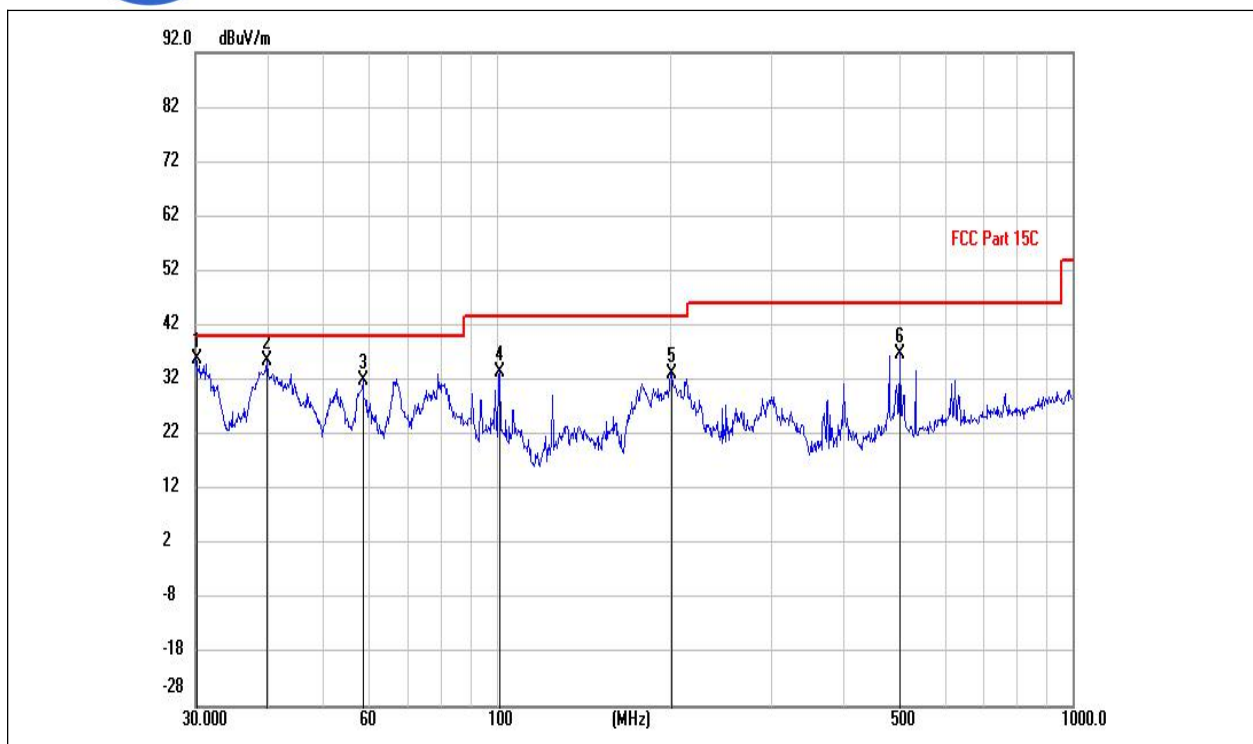
(802.11ac\_5755MHz, Antenna Horizontal, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1063.000        | 36.04            | ---              | 74.00          | 37.96       | H   | -14.36       |
| 1063.000        | ---              | 24.23            | 54.00          | 29.77       | H   | -14.36       |
| 2498.000        | 44.66            | ---              | 74.00          | 29.34       | H   | -10.11       |
| 2498.000        | ---              | 32.41            | 54.00          | 21.59       | H   | -10.11       |
| 3982.000        | 42.06            | ---              | 74.00          | 31.94       | H   | -5.93        |
| 4017.000        | ---              | 30.18            | 54.00          | 23.82       | H   | -5.36        |
| 5725.000        | 43.21            | ---              | 68.20          | 24.99       | H   | -2.80        |
| 5991.000        | ---              | 31.27            | 54.00          | 22.73       | H   | -3.06        |
| 6670.000        | 43.95            | ---              | 68.20          | 24.25       | H   | -1.79        |
| 6992.000        | ---              | 31.12            | 54.00          | 22.88       | H   | -1.60        |
| 7678.000        | 42.24            | ---              | 74.00          | 31.76       | H   | -1.54        |
| 7678.000        | ---              | 30.94            | 54.00          | 23.06       | H   | -1.54        |



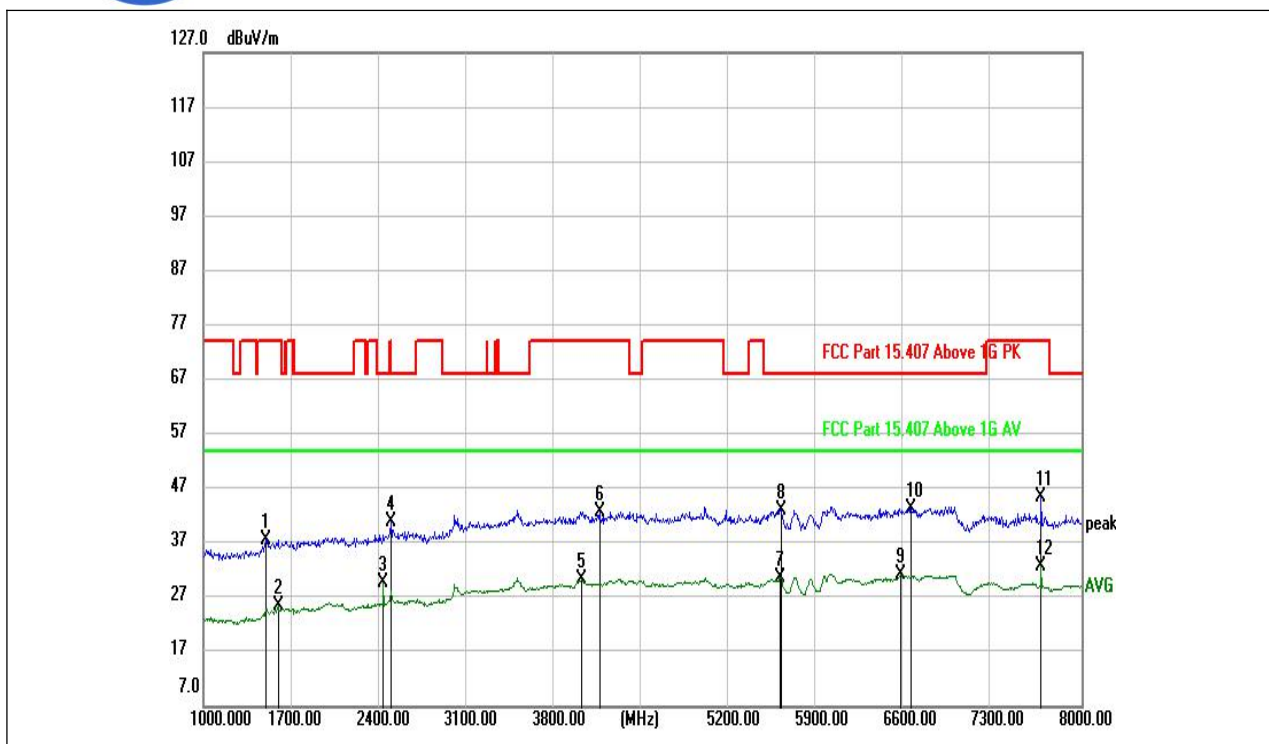
(802.11ac\_5755MHz, Antenna Horizontal, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8590.000        | 45.05            | ---              | 68.20          | 23.15       | H   | 1.50         |
| 8660.000        | ---              | 32.52            | 54.00          | 21.48       | H   | 1.57         |
| 10470.000       | 45.40            | ---              | 68.20          | 22.80       | H   | 3.02         |
| 10510.000       | ---              | 32.87            | 54.00          | 21.13       | H   | 3.15         |
| 12060.000       | ---              | 32.84            | 54.00          | 21.16       | H   | 4.49         |
| 12070.000       | 45.19            | ---              | 74.00          | 28.81       | H   | 4.39         |
| 14410.000       | ---              | 35.02            | 54.00          | 18.98       | H   | 8.84         |
| 14480.000       | 47.47            | ---              | 74.00          | 26.53       | H   | 8.06         |
| 15900.000       | 48.03            | ---              | 74.00          | 25.97       | H   | 11.14        |
| 15930.000       | ---              | 36.03            | 54.00          | 17.97       | H   | 11.32        |
| 17720.000       | ---              | 37.97            | 54.00          | 16.03       | H   | 14.57        |
| 17890.000       | 51.25            | ---              | 74.00          | 22.75       | H   | 15.24        |



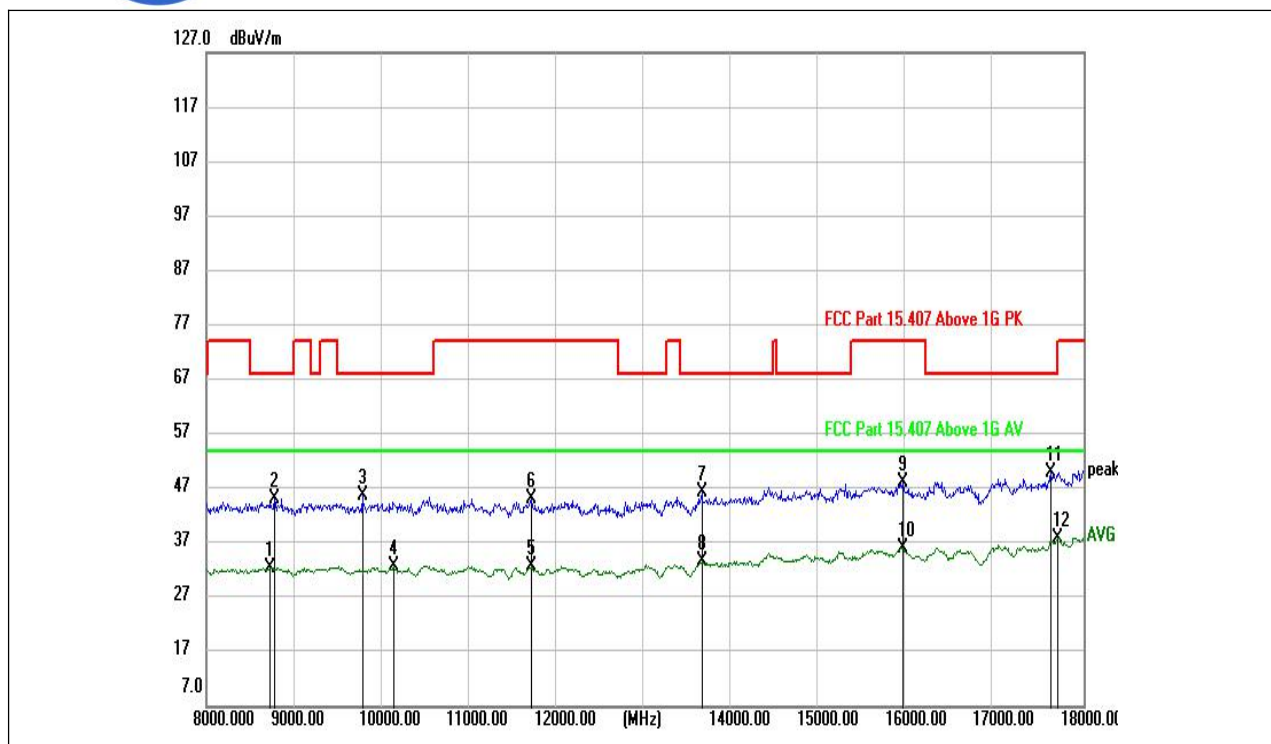
(802.11ac\_5755MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 30.1054         | 35.77            | ---                | 40.00          | 4.23        | V   | 13.71        |
| 39.9942         | 35.34            | ---                | 40.00          | 4.66        | V   | 15.69        |
| 58.6126         | 31.88            | ---                | 40.00          | 8.12        | V   | 14.43        |
| 101.2885        | 33.44            | ---                | 43.50          | 10.06       | V   | 14.92        |
| 200.6881        | 33.16            | ---                | 43.50          | 10.34       | V   | 14.20        |
| 501.1790        | 36.70            | ---                | 46.00          | 9.30        | V   | 22.00        |



(802.11ac\_5755MHz, Antenna Vertical, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1497.000        | 37.62            | ---              | 74.00          | 36.38       | V   | -11.69       |
| 1595.000        | ---              | 25.59            | 54.00          | 28.41       | V   | -12.03       |
| 2435.000        | ---              | 29.65            | 54.00          | 24.35       | V   | -9.66        |
| 2498.000        | 40.93            | ---              | 74.00          | 33.07       | V   | -8.43        |
| 4017.000        | ---              | 30.32            | 54.00          | 23.68       | V   | -3.58        |
| 4157.000        | 42.75            | ---              | 74.00          | 31.25       | V   | -4.48        |
| 5599.000        | ---              | 30.78            | 54.00          | 23.22       | V   | -2.69        |
| 5606.000        | 43.01            | ---              | 68.20          | 25.19       | V   | -2.70        |
| 6558.000        | ---              | 31.26            | 54.00          | 22.74       | V   | -2.01        |
| 6642.000        | 43.31            | ---              | 68.20          | 24.89       | V   | -1.57        |
| 7678.000        | 45.39            | ---              | 74.00          | 28.61       | V   | -1.54        |
| 7678.000        | ---              | 32.76            | 54.00          | 21.24       | V   | -1.54        |



(802.11ac\_5755MHz, Antenna Vertical, 8GHz to 18GHz)

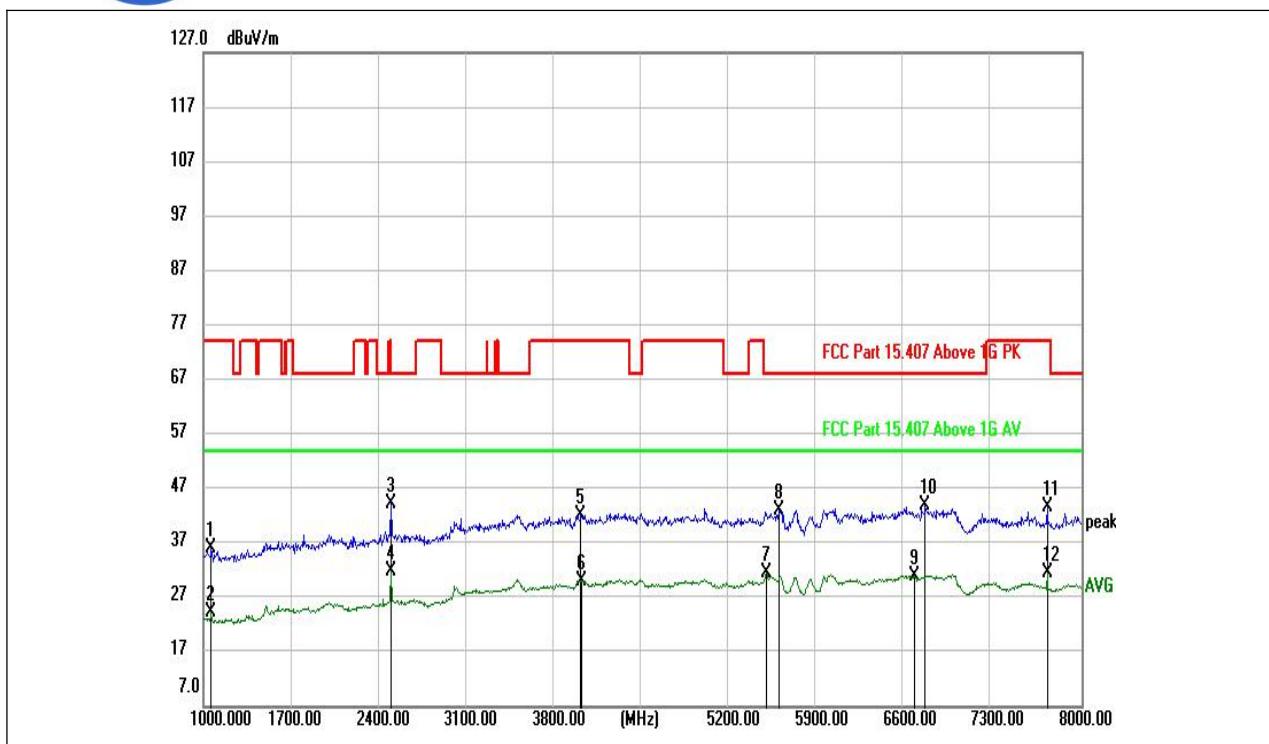
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8730.000        | ---              | 32.51            | 54.00          | 21.49       | V   | 1.69         |
| 8780.000        | 45.08            | ---              | 68.20          | 23.12       | V   | 1.62         |
| 9780.000        | 45.66            | ---              | 68.20          | 22.54       | V   | 1.97         |
| 10140.000       | ---              | 32.63            | 54.00          | 21.37       | V   | 2.67         |
| 11700.000       | ---              | 32.68            | 54.00          | 21.32       | V   | 3.95         |
| 11710.000       | 45.10            | ---              | 74.00          | 28.90       | V   | 4.00         |
| 13650.000       | 46.20            | ---              | 68.20          | 22.00       | V   | 7.21         |
| 13650.000       | ---              | 33.66            | 54.00          | 20.34       | V   | 7.21         |
| 15940.000       | 48.30            | ---              | 74.00          | 25.70       | V   | 11.33        |
| 15940.000       | ---              | 36.16            | 54.00          | 17.84       | V   | 11.33        |
| 17630.000       | 50.05            | ---              | 68.20          | 18.15       | V   | 13.61        |
| 17710.000       | ---              | 37.85            | 54.00          | 16.15       | V   | 14.47        |

Plot for Channel = 159



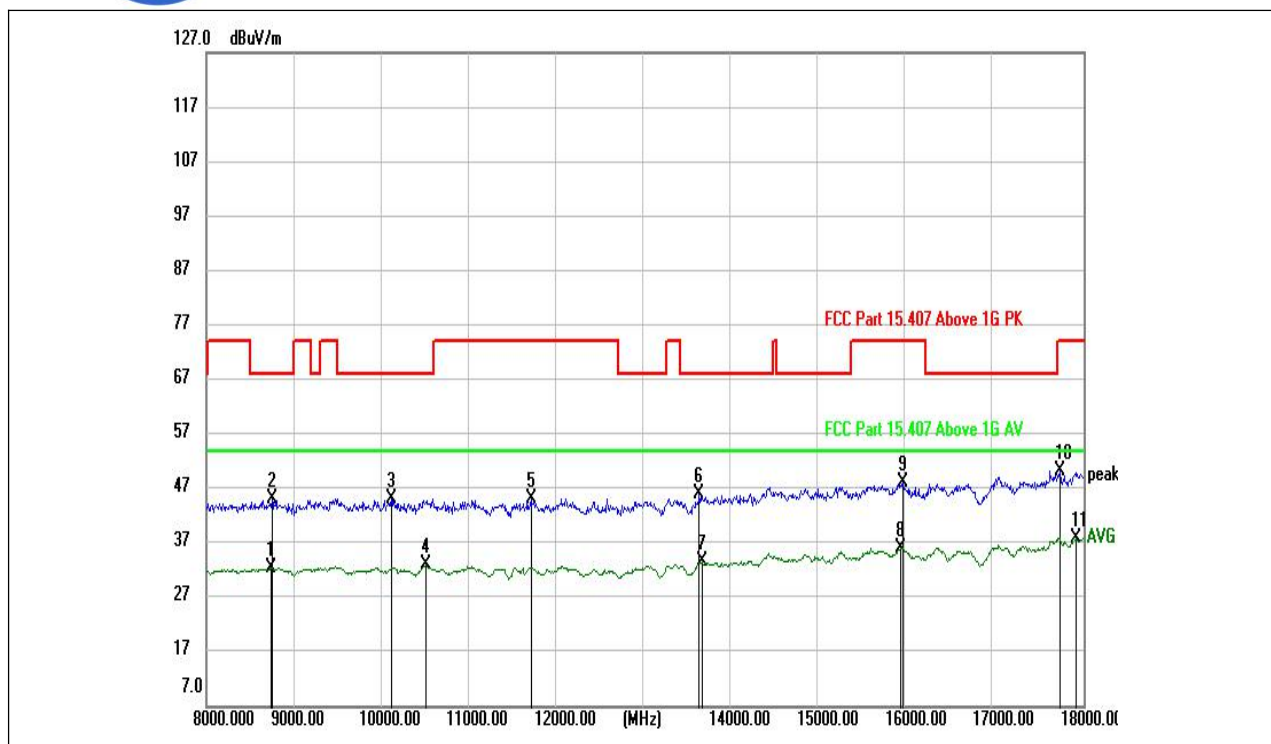
(802.11ac \_5795MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 100.9340        | 32.27            | ---                | 43.50          | 11.23       | H   | 15.00        |
| 125.0066        | 33.12            | ---                | 43.50          | 10.38       | H   | 11.12        |
| 202.1005        | 37.98            | ---                | 43.50          | 5.52        | H   | 13.95        |
| 400.4319        | 34.22            | ---                | 46.00          | 11.78       | H   | 19.66        |
| 480.5276        | 40.27            | ---                | 46.00          | 5.73        | H   | 21.47        |
| 616.3718        | 33.31            | ---                | 46.00          | 12.69       | H   | 23.63        |



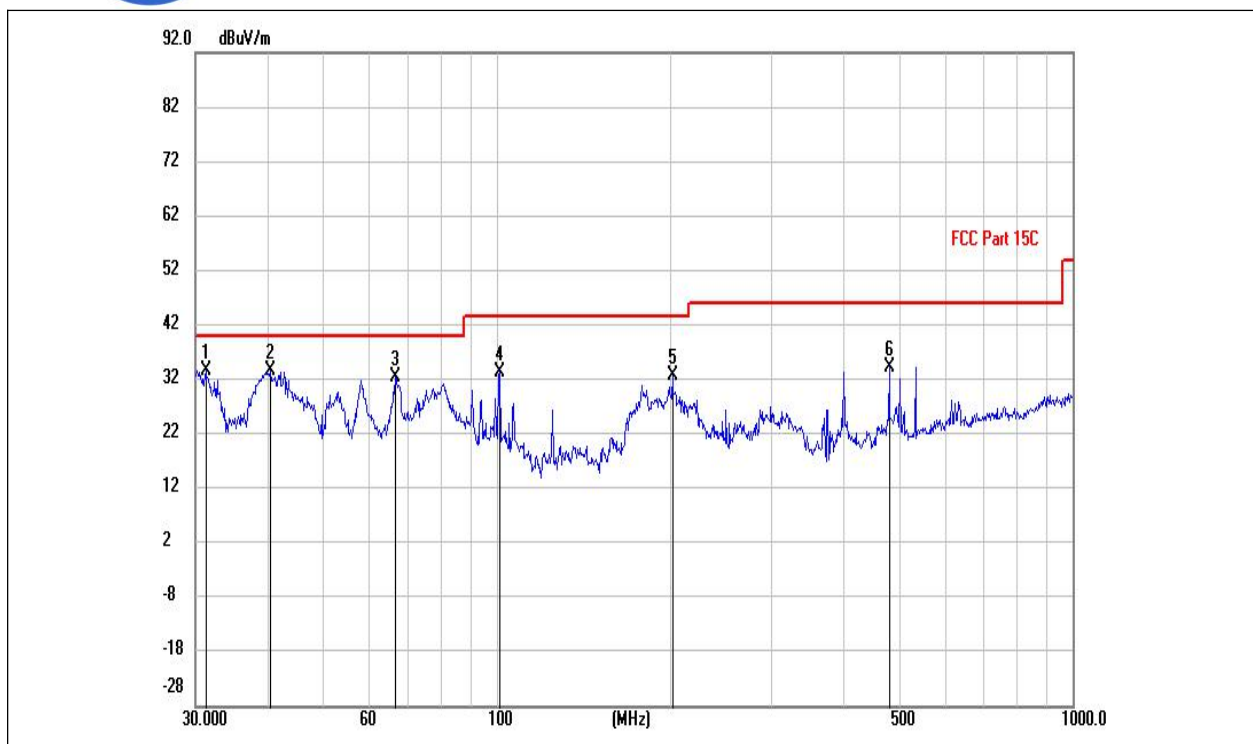
(802.11ac\_5795MHz, Antenna Horizontal, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1063.000        | 36.16            | ---              | 74.00          | 37.84       | H   | -14.36       |
| 1063.000        | ---              | 24.29            | 54.00          | 29.71       | H   | -14.36       |
| 2498.000        | 44.31            | ---              | 74.00          | 29.69       | H   | -10.11       |
| 2498.000        | ---              | 31.88            | 54.00          | 22.12       | H   | -10.11       |
| 4010.000        | 42.20            | ---              | 74.00          | 31.80       | H   | -5.67        |
| 4017.000        | ---              | 30.15            | 54.00          | 23.85       | H   | -5.36        |
| 5487.000        | ---              | 31.50            | 54.00          | 22.50       | H   | -4.28        |
| 5585.000        | 43.17            | ---              | 68.20          | 25.03       | H   | -2.77        |
| 6670.000        | 31.07            | ---              | 54.00          | 22.93       | H   | -1.79        |
| 6754.000        | 43.90            | ---              | 68.20          | 24.30       | H   | -1.99        |
| 7727.000        | 43.72            | ---              | 74.00          | 30.28       | H   | -1.72        |
| 7727.000        | ---              | 31.63            | 54.00          | 22.37       | H   | -1.72        |



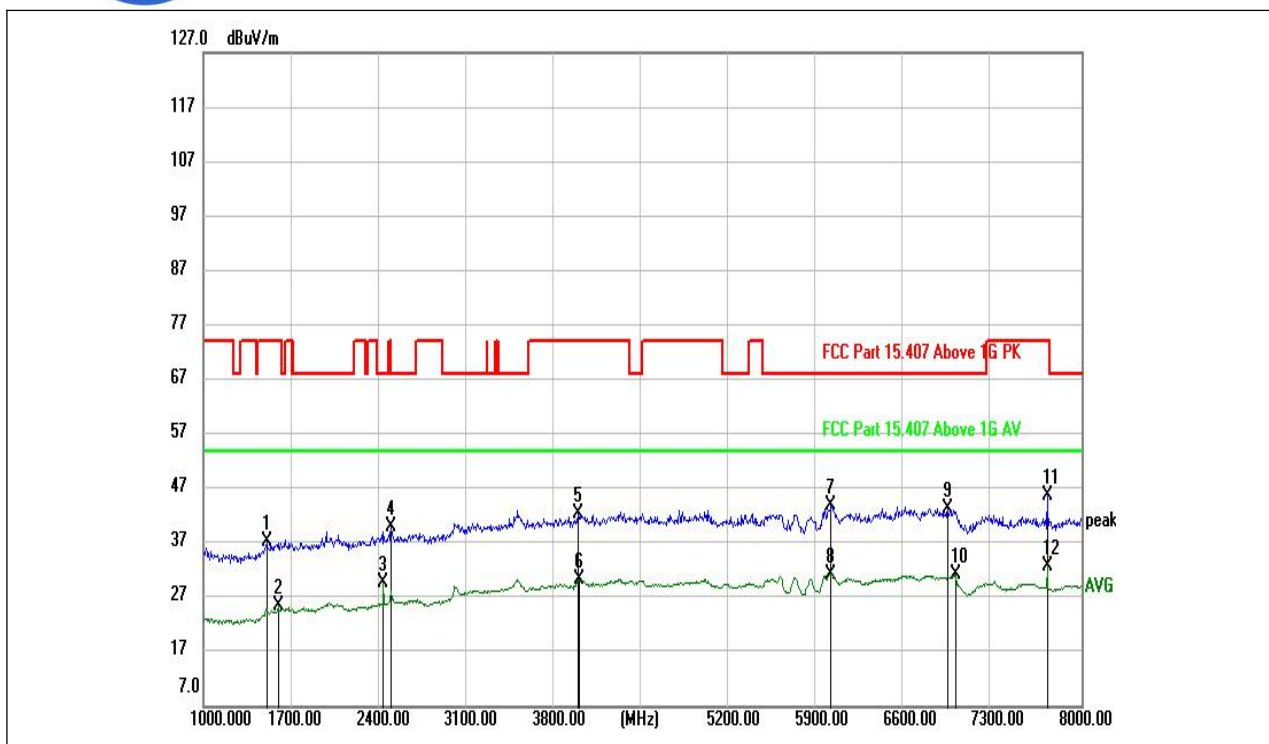
(802.11ac \_5795MHz, Antenna Horizontal, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8740.000        | ---              | 32.51            | 54.00          | 21.49       | H   | 1.67         |
| 8750.000        | 45.01            | ---              | 68.20          | 23.19       | H   | 1.66         |
| 10110.000       | 45.01            | ---              | 68.20          | 23.19       | H   | 2.28         |
| 10500.000       | ---              | 32.95            | 54.00          | 21.05       | H   | 3.19         |
| 11700.000       | 45.28            | ---              | 74.00          | 28.72       | H   | 3.95         |
| 13620.000       | 46.00            | ---              | 68.20          | 22.20       | H   | 6.91         |
| 13650.000       | ---              | 33.75            | 54.00          | 20.25       | H   | 7.21         |
| 15920.000       | ---              | 36.14            | 54.00          | 17.86       | H   | 11.26        |
| 15940.000       | 48.20            | ---              | 74.00          | 25.80       | H   | 11.40        |
| 17730.000       | 50.41            | ---              | 74.00          | 23.59       | H   | 14.66        |
| 17910.000       | ---              | 37.91            | 54.00          | 16.09       | H   | 14.79        |
| 8740.000        | ---              | 32.51            | 54.00          | 21.49       | H   | 1.67         |



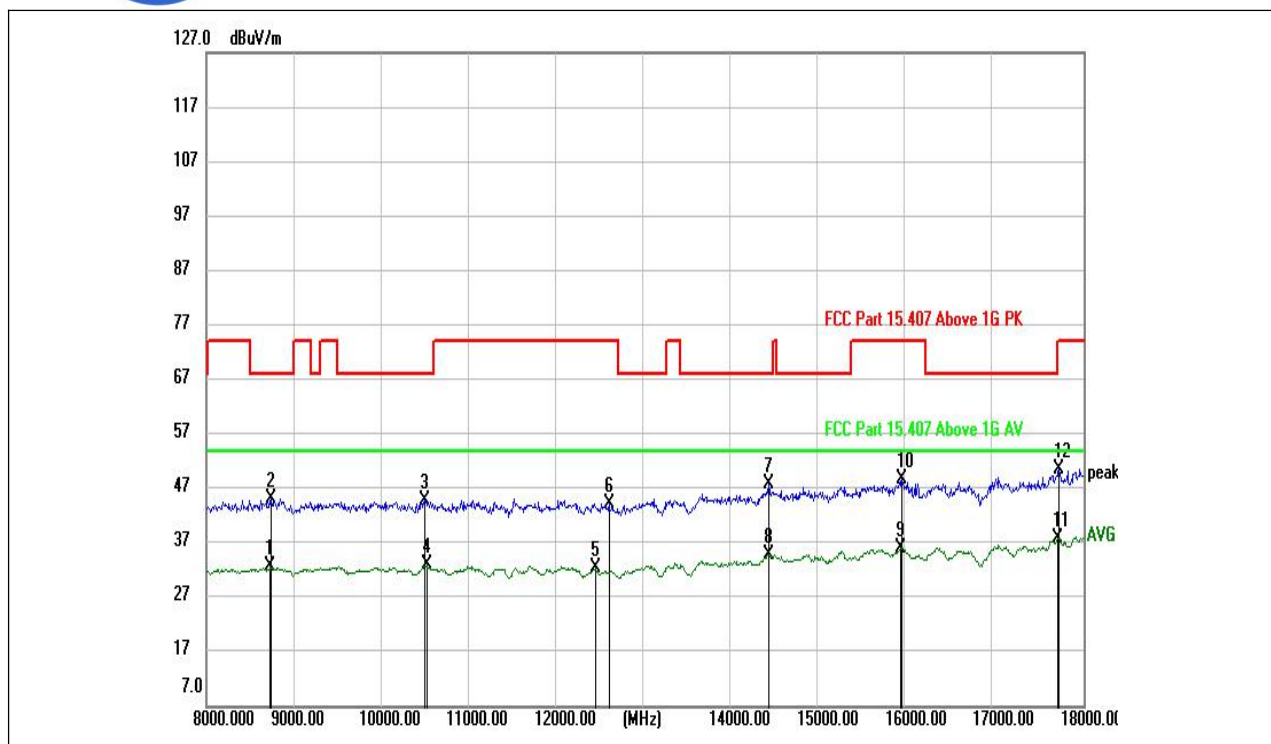
(802.11ac\_5795MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | QuasiPeak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Pol | Corr.<br>(dB/m) |
|--------------------|---------------------|-----------------------|-------------------|----------------|-----|-----------------|
| 31.2893            | 33.80               | ---                   | 40.00             | 6.20           | V   | 12.02           |
| 40.5591            | 33.67               | ---                   | 40.00             | 6.33           | V   | 15.16           |
| 66.7325            | 32.31               | ---                   | 40.00             | 7.69           | V   | 12.80           |
| 101.2885           | 33.35               | ---                   | 43.50             | 10.15          | V   | 14.92           |
| 202.1005           | 32.66               | ---                   | 43.50             | 10.84          | V   | 13.95           |
| 480.5276           | 34.22               | ---                   | 46.00             | 11.78          | V   | 21.47           |



(802.11ac\_5795MHz, Antenna Vertical, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1504.000        | 37.24            | ---              | 74.00          | 36.76       | V   | -11.68       |
| 1595.000        | ---              | 25.43            | 54.00          | 28.57       | V   | -12.03       |
| 2435.000        | ---              | 29.69            | 54.00          | 24.31       | V   | -9.66        |
| 2498.000        | 39.99            | ---              | 74.00          | 34.01       | V   | -8.43        |
| 3989.000        | 42.30            | ---              | 74.00          | 31.70       | V   | -3.92        |
| 3996.000        | ---              | 30.29            | 54.00          | 23.71       | V   | -3.60        |
| 6005.000        | 43.97            | ---              | 68.20          | 24.23       | V   | -1.72        |
| 6005.000        | ---              | 31.37            | 54.00          | 22.63       | V   | -1.72        |
| 6936.000        | 43.45            | ---              | 68.20          | 24.75       | V   | -1.60        |
| 6999.000        | ---              | 31.21            | 54.00          | 22.79       | V   | -1.50        |
| 7727.000        | 45.82            | ---              | 74.00          | 28.18       | V   | -1.72        |
| 7727.000        | ---              | 32.83            | 54.00          | 21.17       | V   | -1.72        |



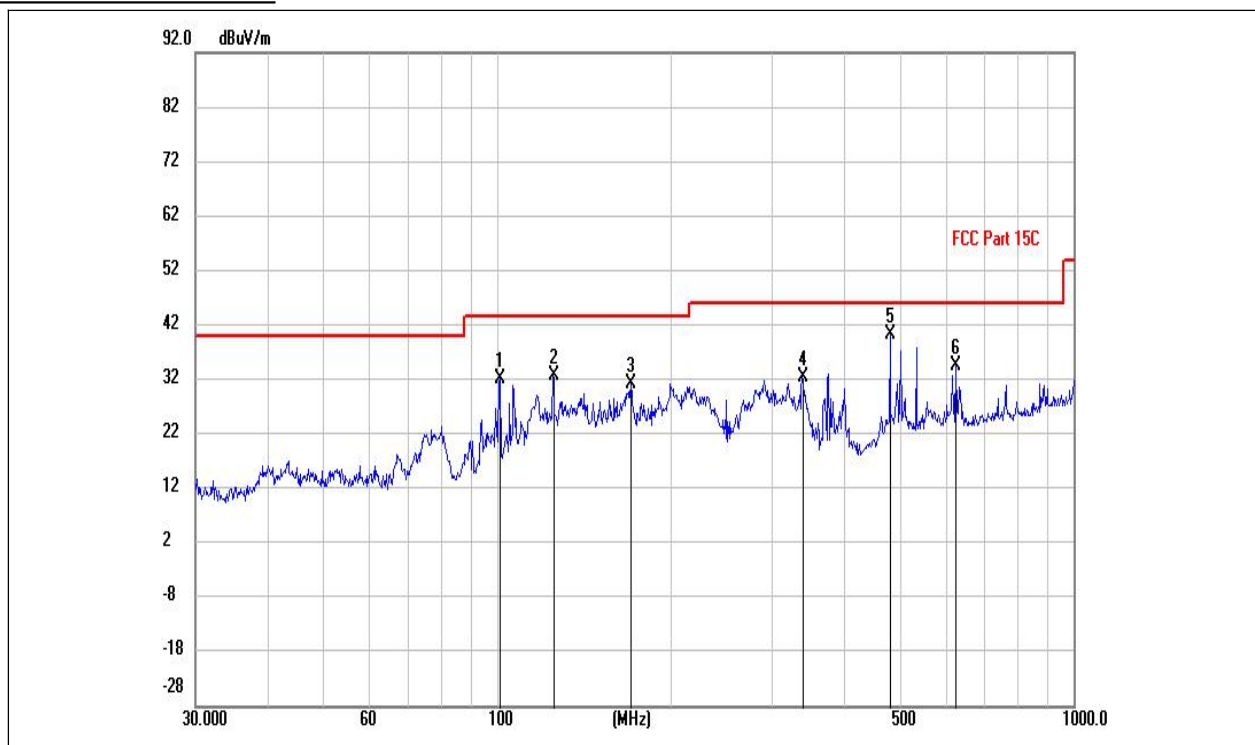
(802.11ac\_5795MHz, Antenna Vertical, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8730.000        | ---              | 32.63            | 54.00          | 21.37       | V   | 1.69         |
| 8740.000        | 45.10            | ---              | 68.20          | 23.10       | V   | 1.67         |
| 10490.000       | 44.88            | ---              | 68.20          | 23.32       | V   | 3.85         |
| 10510.000       | ---              | 32.99            | 54.00          | 21.01       | V   | 3.87         |
| 12440.000       | ---              | 32.48            | 54.00          | 21.52       | V   | 4.53         |
| 12590.000       | 44.33            | ---              | 74.00          | 29.67       | V   | 4.54         |
| 14410.000       | 47.90            | ---              | 68.20          | 20.30       | V   | 8.96         |
| 14410.000       | ---              | 34.96            | 54.00          | 19.04       | V   | 8.96         |
| 15910.000       | ---              | 36.07            | 54.00          | 17.93       | V   | 11.12        |
| 15930.000       | 48.71            | ---              | 74.00          | 25.29       | V   | 11.26        |
| 17700.000       | ---              | 38.01            | 54.00          | 15.99       | V   | 14.37        |
| 17720.000       | 50.44            | ---              | 74.00          | 23.56       | V   | 14.57        |



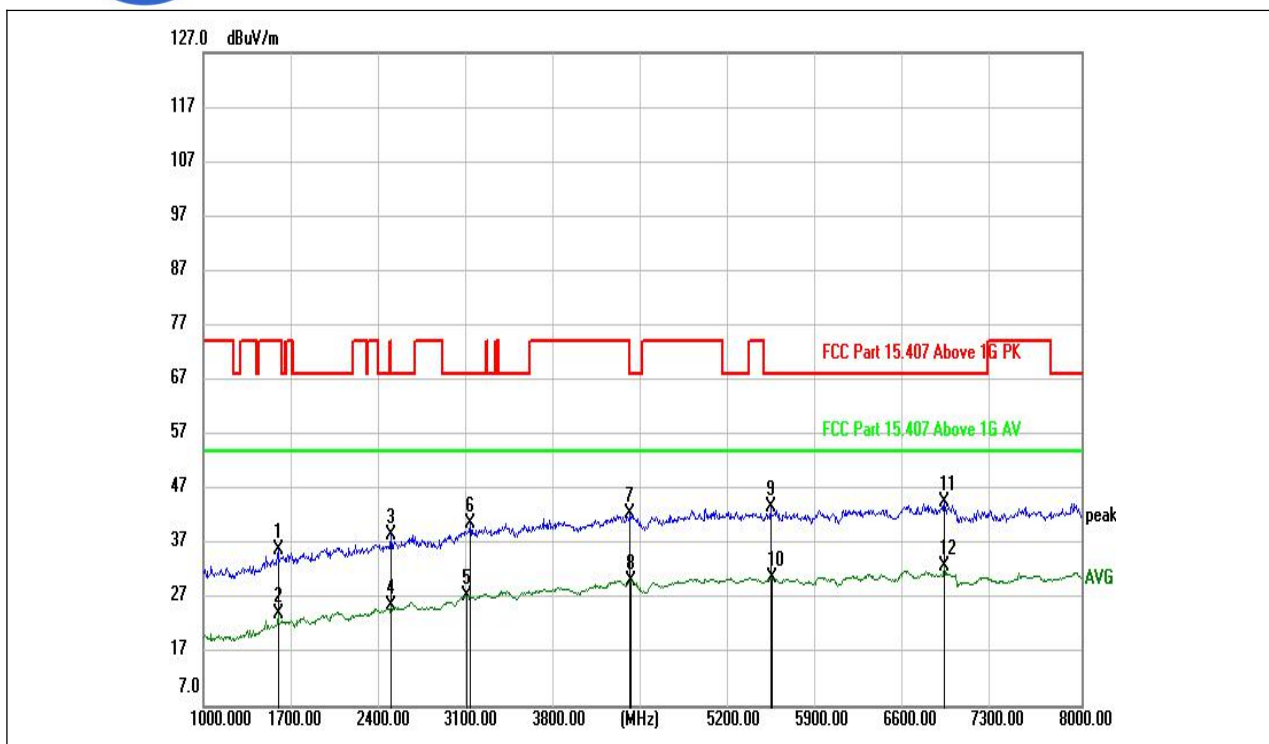
# 802.11ac (HT80) Test mode

Plot for Channel = 42



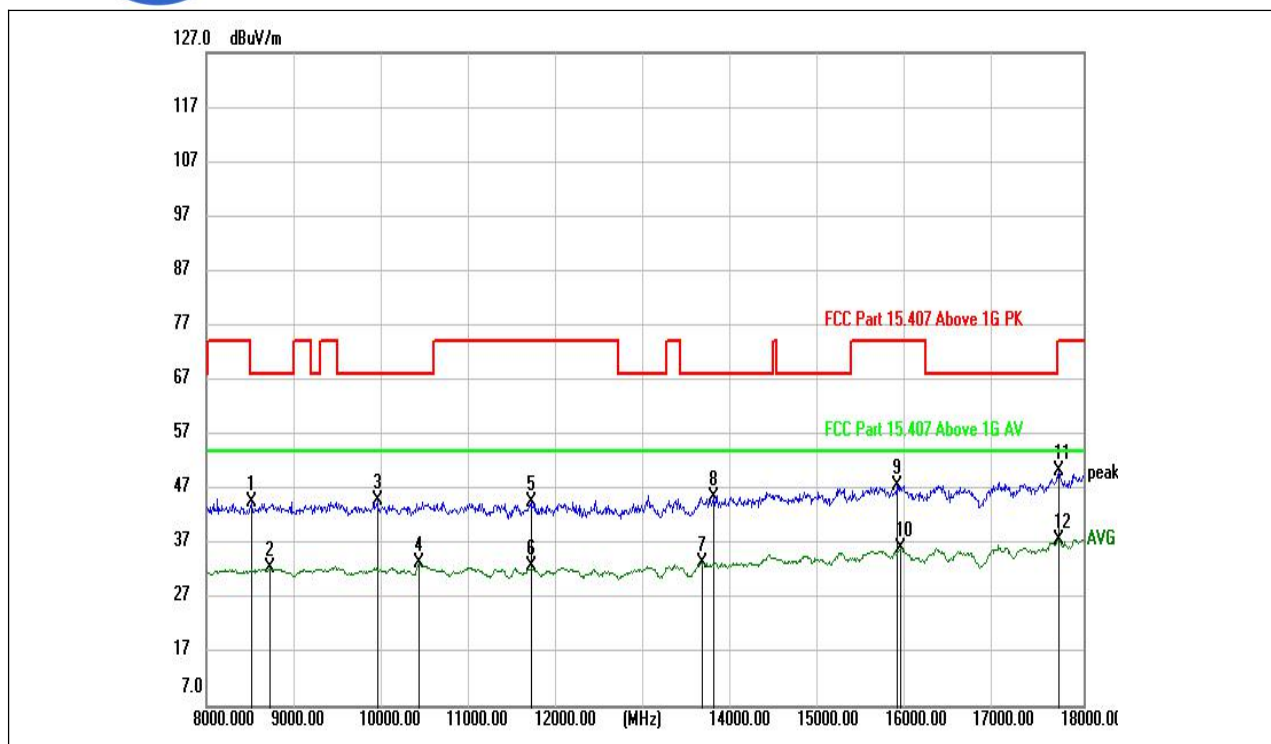
(802.11ac \_5210MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 101.2885        | 32.09            | ---                | 43.50          | 11.41       | H   | 14.92        |
| 125.0066        | 32.68            | ---                | 43.50          | 10.82       | H   | 11.12        |
| 170.7926        | 31.26            | ---                | 43.50          | 12.24       | H   | 12.28        |
| 338.4001        | 32.34            | ---                | 46.00          | 13.66       | H   | 18.02        |
| 480.5276        | 40.39            | ---                | 46.00          | 5.61        | H   | 21.47        |
| 625.0780        | 34.48            | ---                | 46.00          | 11.52       | H   | 23.84        |



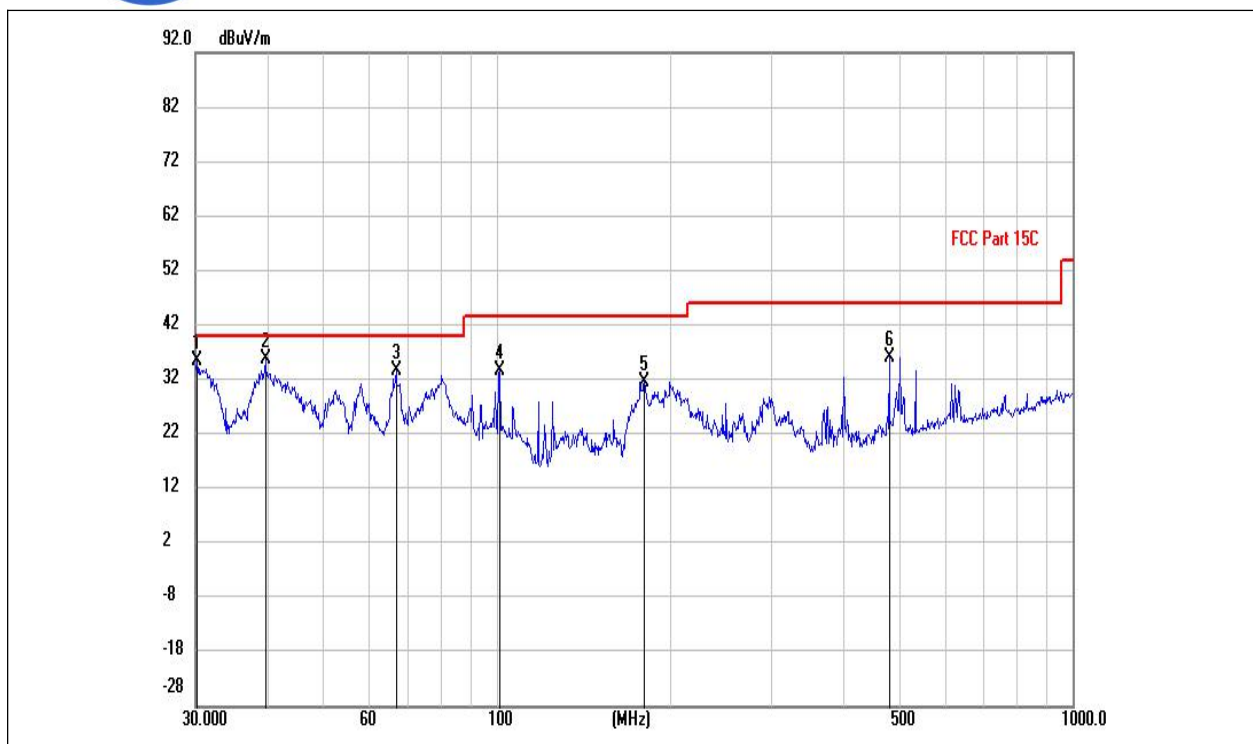
(802.11ac\_5210MHz, Antenna Horizontal, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1595.000        | 35.80            | ---              | 74.00          | 38.20       | H   | -14.54       |
| 1595.000        | ---              | 24.10            | 54.00          | 29.90       | H   | -14.54       |
| 2498.000        | 38.65            | ---              | 74.00          | 35.35       | H   | -11.31       |
| 2498.000        | ---              | 25.68            | 54.00          | 28.32       | H   | -11.31       |
| 3100.000        | ---              | 27.39            | 54.00          | 26.61       | H   | -7.88        |
| 3128.000        | 40.54            | ---              | 68.20          | 27.66       | H   | -7.80        |
| 4402.000        | 42.47            | ---              | 68.20          | 25.73       | H   | -4.23        |
| 4409.000        | ---              | 30.15            | 54.00          | 23.85       | H   | -4.22        |
| 5522.000        | 43.59            | ---              | 68.20          | 24.61       | H   | -2.87        |
| 5536.000        | ---              | 30.64            | 54.00          | 23.36       | H   | -2.62        |
| 6908.000        | 44.62            | ---              | 68.20          | 23.58       | H   | -1.25        |
| 6908.000        | ---              | 32.65            | 54.00          | 21.35       | H   | -1.25        |



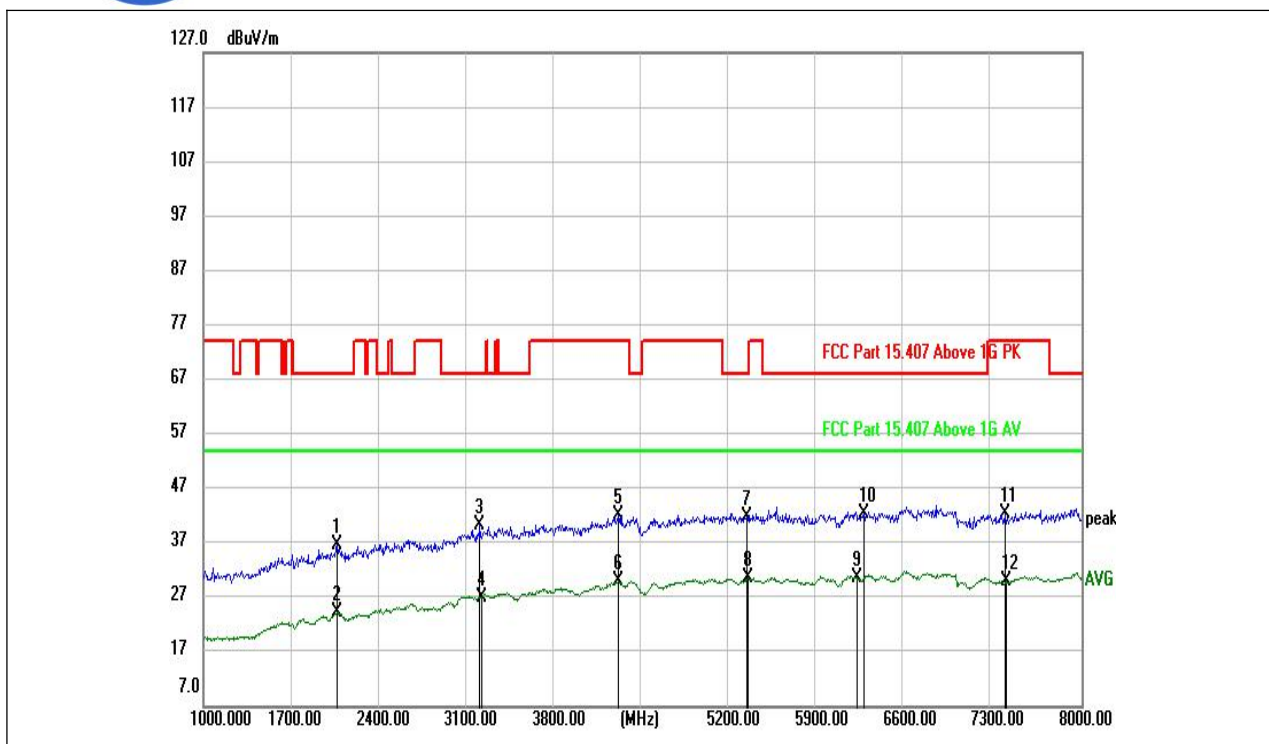
(802.11ac\_5210MHz, Antenna Horizontal, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8520.000        | 44.41            | ---              | 68.20          | 23.79       | H   | 1.28         |
| 8730.000        | ---              | 32.36            | 54.00          | 21.64       | H   | 1.69         |
| 9950.000        | 44.89            | ---              | 68.20          | 23.31       | H   | 2.27         |
| 10420.000       | ---              | 33.32            | 54.00          | 20.68       | H   | 2.59         |
| 11700.000       | 44.50            | ---              | 74.00          | 29.50       | H   | 3.95         |
| 11710.000       | ---              | 32.63            | 54.00          | 21.37       | H   | 4.00         |
| 13650.000       | ---              | 33.50            | 54.00          | 20.50       | H   | 7.21         |
| 13790.000       | 45.53            | ---              | 68.20          | 22.67       | H   | 7.17         |
| 15870.000       | 47.41            | ---              | 74.00          | 26.59       | H   | 11.02        |
| 15920.000       | ---              | 36.07            | 54.00          | 17.93       | H   | 11.26        |
| 17720.000       | 50.22            | ---              | 74.00          | 23.78       | H   | 14.57        |
| 17720.000       | ---              | 37.65            | 54.00          | 16.35       | H   | 14.57        |



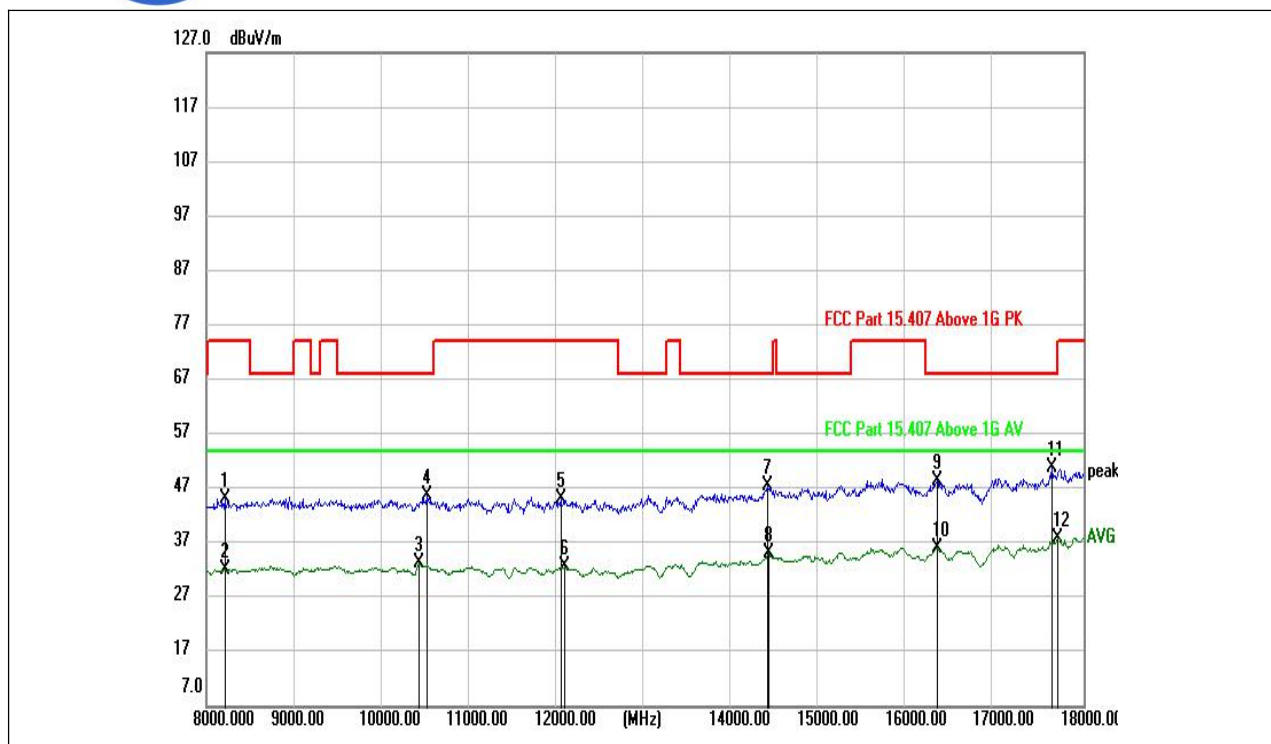
(802.11ac\_5210MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | QuasiPeak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Pol | Corr.<br>(dB/m) |
|--------------------|---------------------|-----------------------|-------------------|----------------|-----|-----------------|
| 30.2111            | 35.47               | ---                   | 40.00             | 4.53           | V   | 13.52           |
| 39.7147            | 35.75               | ---                   | 40.00             | 4.25           | V   | 15.27           |
| 66.9669            | 33.56               | ---                   | 40.00             | 6.44           | V   | 12.73           |
| 101.2885           | 33.68               | ---                   | 43.50             | 9.82           | V   | 14.92           |
| 180.6488           | 31.55               | ---                   | 43.50             | 11.95          | V   | 12.73           |
| 480.5276           | 35.97               | ---                   | 46.00             | 10.03          | V   | 21.47           |



(802.11ac\_5210MHz, Antenna Vertical, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 2064.000        | 36.60            | ---              | 68.20          | 31.60       | V   | -11.69       |
| 2064.000        | ---              | 24.38            | 54.00          | 29.62       | V   | -11.69       |
| 3205.000        | 40.41            | ---              | 68.20          | 27.79       | V   | -7.70        |
| 3219.000        | ---              | 27.14            | 54.00          | 26.86       | V   | -7.56        |
| 4311.000        | 42.23            | ---              | 74.00          | 31.77       | V   | -3.54        |
| 4311.000        | ---              | 30.18            | 54.00          | 23.82       | V   | -3.54        |
| 5333.000        | 41.82            | ---              | 68.20          | 26.38       | V   | -2.80        |
| 5340.000        | ---              | 30.72            | 54.00          | 23.28       | V   | -2.78        |
| 6208.000        | ---              | 30.63            | 54.00          | 23.37       | V   | -2.19        |
| 6264.000        | 42.37            | ---              | 68.20          | 25.83       | V   | -1.91        |
| 7391.000        | 42.54            | ---              | 74.00          | 31.46       | V   | -0.76        |
| 7405.000        | ---              | 29.96            | 54.00          | 24.04       | V   | -0.86        |



(802.11ac \_5210MHz, Antenna Vertical, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8210.000        | 45.13            | ---              | 74.00          | 28.87       | V   | 1.51         |
| 8210.000        | ---              | 32.32            | 54.00          | 21.68       | V   | 1.51         |
| 10420.000       | ---              | 33.32            | 54.00          | 20.68       | V   | 2.75         |
| 10510.000       | 45.78            | ---              | 68.20          | 22.42       | V   | 3.87         |
| 12040.000       | 45.02            | ---              | 74.00          | 28.98       | V   | 5.04         |
| 12080.000       | ---              | 32.68            | 54.00          | 21.32       | V   | 4.71         |
| 14400.000       | 47.62            | ---              | 68.20          | 20.58       | V   | 8.98         |
| 14410.000       | ---              | 35.16            | 54.00          | 18.84       | V   | 8.96         |
| 16330.000       | 48.31            | ---              | 68.20          | 19.89       | V   | 11.33        |
| 16330.000       | ---              | 36.13            | 54.00          | 17.87       | V   | 11.33        |
| 17640.000       | 50.82            | ---              | 68.20          | 17.38       | V   | 13.72        |
| 17700.000       | ---              | 37.92            | 54.00          | 16.08       | V   | 14.37        |

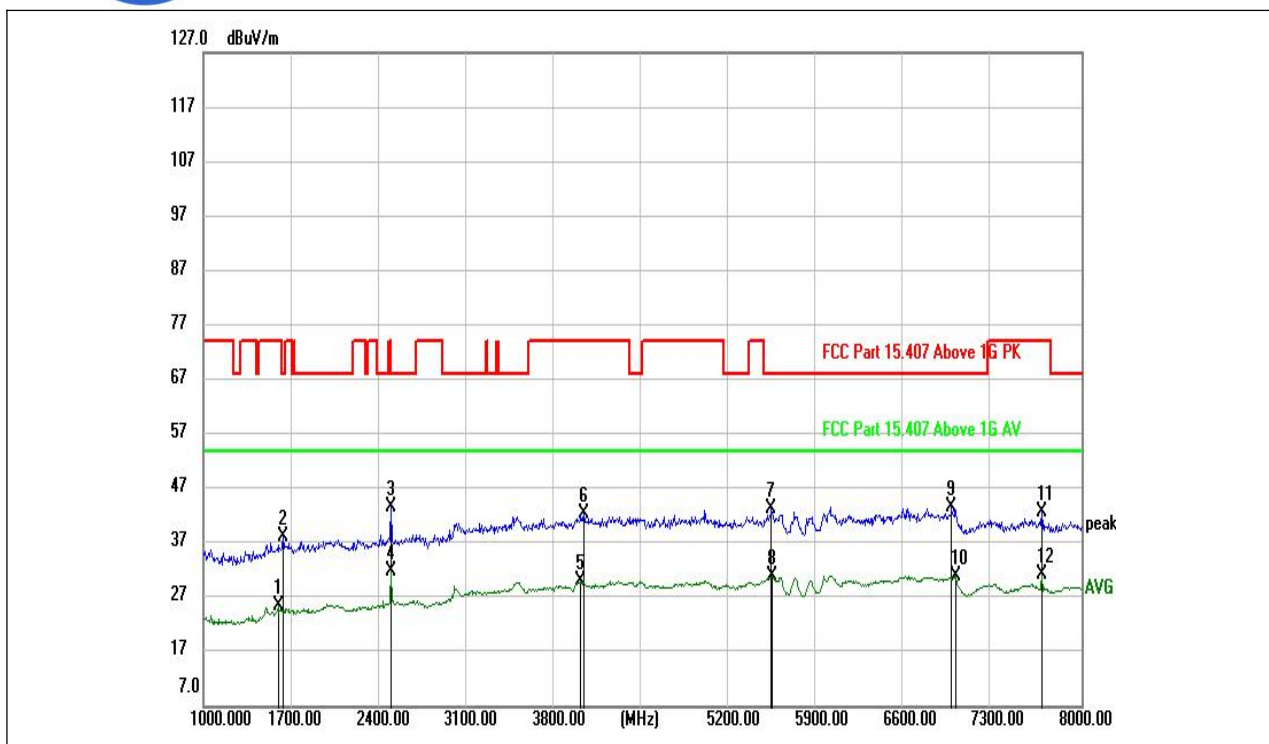


Plots for Channel = 155



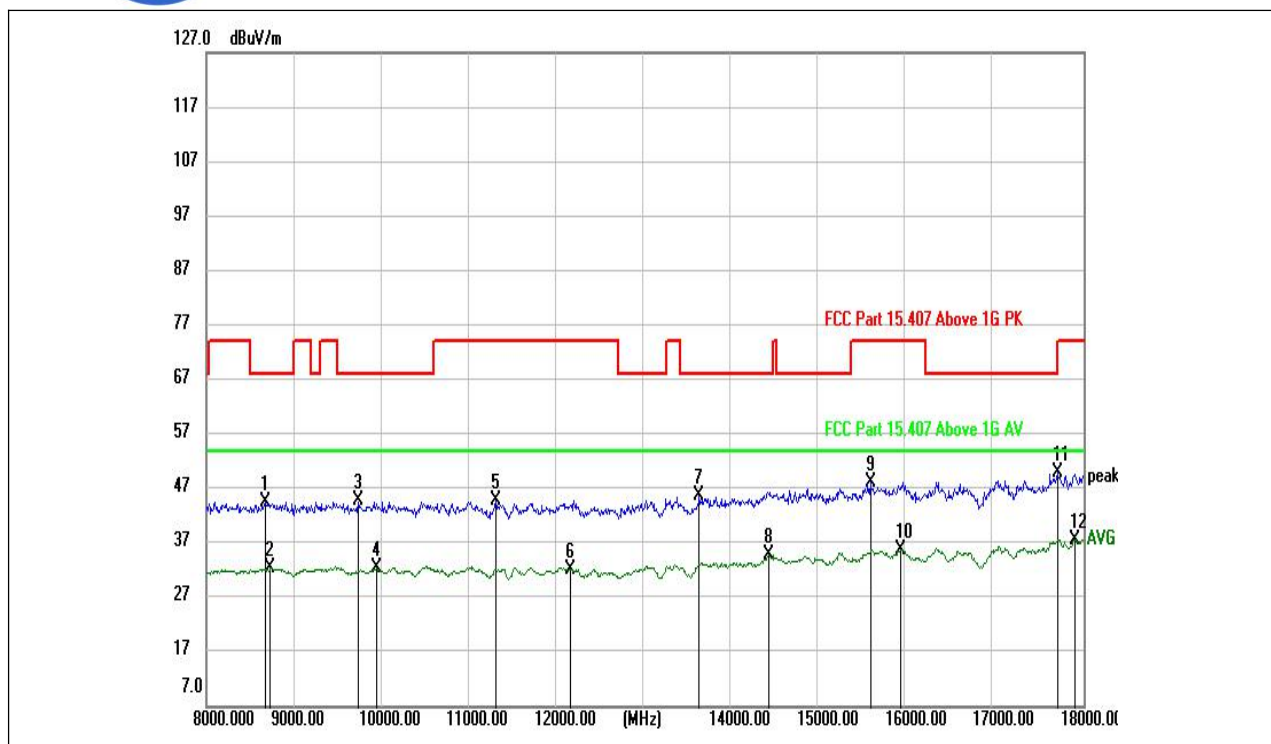
(802.11ac \_5775MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 77.5928         | 23.57            | ---                | 40.00          | 16.43       | H   | 9.51         |
| 101.2885        | 32.83            | ---                | 43.50          | 10.67       | H   | 14.92        |
| 167.2368        | 30.92            | ---                | 43.50          | 12.58       | H   | 11.68        |
| 291.0360        | 33.20            | ---                | 46.00          | 12.80       | H   | 15.83        |
| 480.5276        | 40.75            | ---                | 46.00          | 5.25        | H   | 21.47        |
| 625.0780        | 34.14            | ---                | 46.00          | 11.86       | H   | 23.84        |



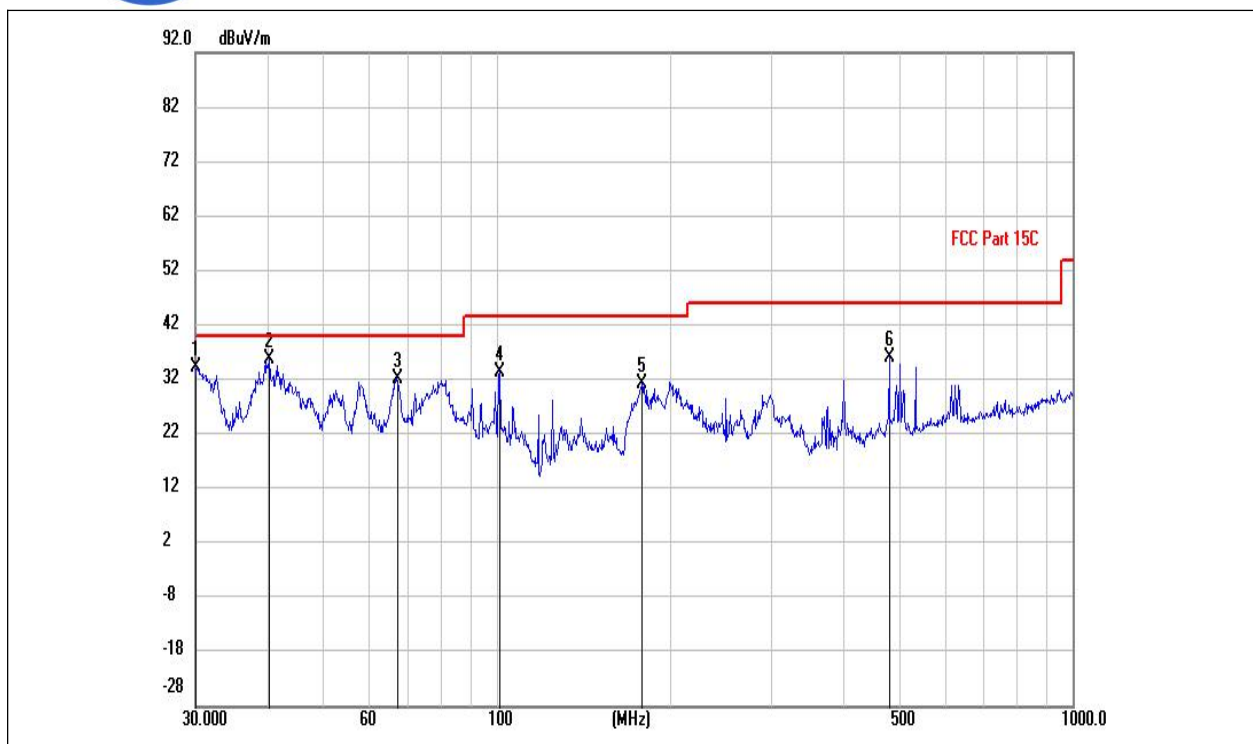
(802.11ac\_5775MHz, Antenna Horizontal, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1595.000        | ---              | 25.54            | 54.00          | 28.46       | H   | -12.03       |
| 1637.000        | 38.12            |                  | 68.20          | 30.08       | H   | -11.97       |
| 2498.000        | 43.76            | ---              | 74.00          | 30.24       | H   | -10.11       |
| 2498.000        | ---              | 31.96            | 54.00          | 22.04       | H   | -10.11       |
| 4010.000        | ---              | 29.96            | 54.00          | 24.04       | H   | -5.67        |
| 4031.000        | 42.53            | ---              | 74.00          | 31.47       | H   | -4.84        |
| 5529.000        | 43.42            | ---              | 68.20          | 24.78       | H   | -3.77        |
| 5536.000        | ---              | 30.92            | 54.00          | 23.08       | H   | -3.63        |
| 6964.000        | 43.72            | ---              | 68.20          | 24.48       | H   | -1.61        |
| 6999.000        | ---              | 31.05            | 54.00          | 22.95       | H   | -1.60        |
| 7685.000        | 42.79            | ---              | 74.00          | 31.21       | H   | -1.58        |
| 7685.000        | ---              | 31.40            | 54.00          | 22.60       | H   | -1.58        |



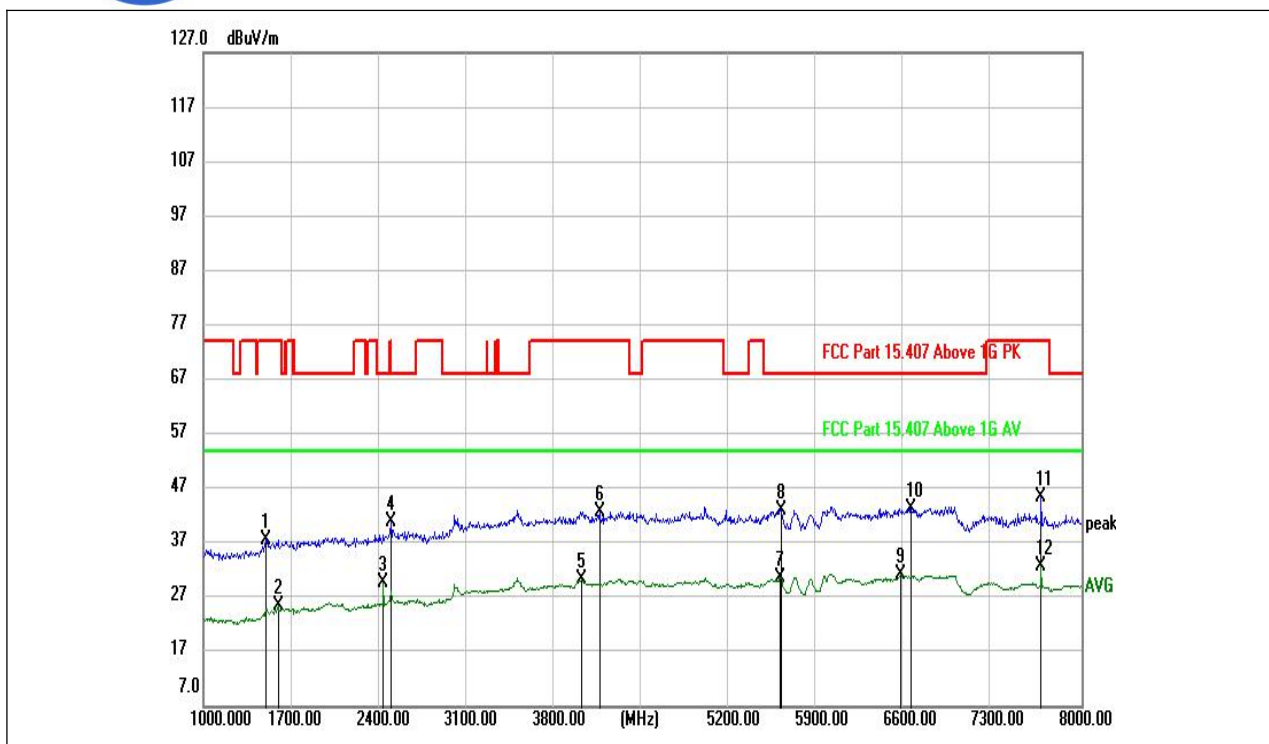
(802.11ac \_5775MHz, Antenna Horizontal, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8670.000        | 44.44            | ---              | 68.20          | 23.76       | H   | 1.59         |
| 8730.000        | ---              | 32.46            | 54.00          | 21.54       | H   | 1.69         |
| 9730.000        | 44.69            | ---              | 68.20          | 23.51       | H   | 2.18         |
| 9940.000        | ---              | 32.36            | 54.00          | 21.64       | H   | 2.27         |
| 11300.000       | 44.72            | ---              | 74.00          | 29.28       | H   | 3.51         |
| 12150.000       | ---              | 32.29            | 54.00          | 21.71       | H   | 4.29         |
| 13620.000       | 45.64            | ---              | 68.20          | 22.56       | H   | 6.91         |
| 14410.000       | ---              | 34.83            | 54.00          | 19.17       | H   | 8.84         |
| 15570.000       | 48.06            | ---              | 74.00          | 25.94       | H   | 10.78        |
| 15910.000       | ---              | 35.86            | 54.00          | 18.14       | H   | 11.18        |
| 17700.000       | 50.05            | ---              | 68.20          | 18.15       | H   | 14.37        |
| 17900.000       | ---              | 37.69            | 54.00          | 16.31       | H   | 15.01        |



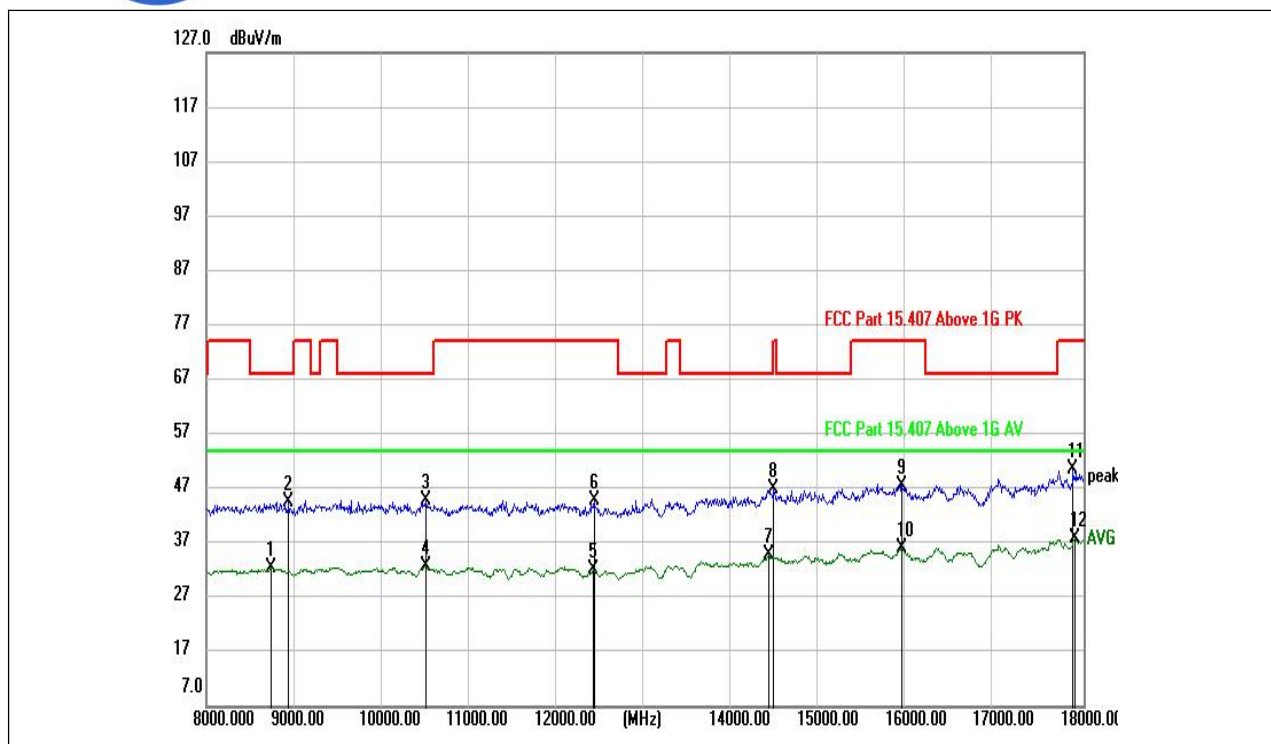
(802.11ac\_5775MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|--------------------|----------------|-------------|-----|--------------|
| 30.0000         | 34.38            | ---                | 40.00          | 5.62        | V   | 13.90        |
| 40.2757         | 35.63            | ---                | 40.00          | 4.37        | V   | 15.43        |
| 67.2022         | 32.11            | ---                | 40.00          | 7.89        | V   | 12.67        |
| 101.2885        | 33.44            | ---                | 43.50          | 10.06       | V   | 14.92        |
| 178.7584        | 31.39            | ---                | 43.50          | 12.11       | V   | 12.45        |
| 480.5276        | 36.08            | ---                | 46.00          | 9.92        | V   | 21.47        |



(802.11ac\_5775MHz, Antenna Vertical, 1GHz to 8GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 1497.000        | 37.62            | ---              | 74.00          | 36.38       | V   | -11.69       |
| 1595.000        | ---              | 25.59            | 54.00          | 28.41       | V   | -12.03       |
| 2435.000        | ---              | 29.65            | 54.00          | 24.35       | V   | -9.66        |
| 2498.000        | 40.93            | ---              | 74.00          | 33.07       | V   | -8.43        |
| 4017.000        | ---              | 30.32            | 54.00          | 23.68       | V   | -3.58        |
| 4157.000        | 42.75            | ---              | 74.00          | 31.25       | V   | -4.48        |
| 5599.000        | ---              | 30.78            | 54.00          | 23.22       | V   | -2.69        |
| 5606.000        | 43.01            | ---              | 68.20          | 25.19       | V   | -2.70        |
| 6558.000        | ---              | 31.26            | 54.00          | 22.74       | V   | -2.01        |
| 6642.000        | 43.31            | ---              | 68.20          | 24.89       | V   | -1.57        |
| 7678.000        | 45.39            | ---              | 74.00          | 28.61       | V   | -1.54        |
| 7678.000        | ---              | 32.76            | 54.00          | 21.24       | V   | -1.54        |



(802.11ac\_5775MHz, Antenna Vertical, 8GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 8740.000        | ---              | 32.49            | 54.00          | 21.51       | V   | 1.67         |
| 8940.000        | 44.49            | ---              | 68.20          | 23.71       | V   | 1.40         |
| 10500.000       | 44.87            | ---              | 68.20          | 23.33       | V   | 3.99         |
| 10500.000       | ---              | 32.87            | 54.00          | 21.13       | V   | 3.99         |
| 12410.000       | ---              | 32.14            | 54.00          | 21.86       | V   | 4.36         |
| 12420.000       | 44.69            | ---              | 74.00          | 29.31       | V   | 4.42         |
| 14410.000       | ---              | 34.82            | 54.00          | 19.18       | V   | 8.96         |
| 14470.000       | 46.97            | ---              | 68.20          | 21.23       | V   | 9.00         |
| 15930.000       | 47.67            | ---              | 74.00          | 26.33       | V   | 11.26        |
| 15930.000       | ---              | 36.01            | 54.00          | 17.99       | V   | 11.26        |
| 17880.000       | 50.56            | ---              | 74.00          | 23.44       | V   | 15.81        |
| 17900.000       | ---              | 37.79            | 54.00          | 16.21       | V   | 15.46        |



## **2.9. Automatically discontinue transmission requirement**

### **2.9.1. Requirement**

According to 15.407(c), the device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met

### **2.9.2. Result**

The EUT will automatically discontinue transmission in case of either absence of information to transmit or operational failure.



## Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

| Test items                   | Uncertainty         |
|------------------------------|---------------------|
| Peak Output Power            | $\pm 2.22\text{dB}$ |
| Power spectral density (PSD) | $\pm 2.22\text{dB}$ |
| Bandwidth                    | $\pm 5\%$           |
| Restricted Frequency Bands   | $\pm 5\%$           |
| Radiated Emission            | $\pm 3.1\text{dB}$  |
| Conducted Emission           | $\pm 1.8\text{dB}$  |

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$



## Annex B Testing Laboratory Information

### 1. Identification of the Responsible Testing Laboratory

|                            |                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------|
| <b>Laboratory Name:</b>    | Kehu-Morlab Test Laboratory                                                         |
| <b>Laboratory Address:</b> | Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade Zone (Fujian) China |
| <b>Telephone:</b>          | +86-592-5612050                                                                     |
| <b>Facsimile:</b>          | +86-592-5612095                                                                     |

### 2. Identification of the Responsible Testing Location

|                 |                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------|
| <b>Name:</b>    | Kehu-Morlab Test Laboratory                                                               |
| <b>Address:</b> | Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade Zone (Fujian), P.R. China |

### 3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade Zone (Fujian), P.R. China.

The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1249.

### 4. Test Equipments Utilized

#### 4.1 Conducted Test Equipments

| No. | Equipment Name              | Serial No. | Model No. | Manufacturer | Cal.Date   | Cal.Due Date |
|-----|-----------------------------|------------|-----------|--------------|------------|--------------|
| 1   | MXA Signal Analyzer         | MY57150136 | N9030A    | Keysight     | 2019.01.05 | 2020.01.04   |
| 2   | RF cable<br>(30MHz-26.5GHz) | RF01       | N/A       | Morlab       | 2019.01.05 | 2020.01.04   |
| 3   | Coaxial cable               | RF02       | N/A       | Morlab       | 2019.01.05 | 2020.01.04   |
| 4   | SMA connector               | RF03       | N/A       | Xingbo       | 2019.01.05 | 2020.01.04   |
| 5   | USB Power Sensor            | MY56410006 | U2021XA   | Keysight     | 2019.01.03 | 2020.01.02   |

#### 4.2 Conducted Emission Test Equipments

| No. | Equipment Name       | Serial No. | Model No.      | Manufacturer | Cal.Date   | Cal.Due Date |
|-----|----------------------|------------|----------------|--------------|------------|--------------|
| 1   | EMI Receiver         | 102174     | ESR3           | ESR3         | 2019.01.08 | 2020.01.07   |
| 2   | LISN                 | 101338     | ENV432         | ENV432       | 2019.01.14 | 2020.01.13   |
| 3   | Pulse Limiter (10dB) | 317        | VTSD<br>9561 F | VTSD 9561 F  | 2019.01.14 | 2020.01.13   |



|   |                                    |       |     |        |            |            |
|---|------------------------------------|-------|-----|--------|------------|------------|
| 4 | Coaxial cable(BNC)<br>(30MHz-3GHz) | EMC01 | N/A | Morlab | 2019.01.14 | 2020.01.13 |
|---|------------------------------------|-------|-----|--------|------------|------------|

#### 4.4 List of Software Used

| No. | Model | Version Number | Producer     | Test Item |
|-----|-------|----------------|--------------|-----------|
| 1   | EMC32 | V10.00.00      | Rode&Schwarz | RE        |
| 2   | EMC32 | V10.20.01      | Rode&Schwarz | CE        |

#### 4.5 Radiated Test Equipments

| RSE Test System |                                             |                   |                       |              |            |              |
|-----------------|---------------------------------------------|-------------------|-----------------------|--------------|------------|--------------|
| No.             | Equipment Name                              | Serial No.        | Model No.             | Manufacturer | Cal. Date  | Cal.Due Date |
| 1               | Anechoic Chamber                            | N/A               | 9m*6m*6m              | ETS-Lindgren | 2017.07.21 | 2020.07.20   |
| 2               | Signal Analyzer                             | 101294            | FSV40                 | R&S          | 2019.01.04 | 2020.01.03   |
| 3               | Active Ring Antenna                         | FMZB 1513<br>#269 | FMZB 1513             | Schwarzbeck  | 2019.01.12 | 2020.01.11   |
| 4               | Linear Log Periodic<br>Broad Band Antenna   | 949               | VULB 9163             | Schwarzbeck  | 2018.09.25 | 2021.09.24   |
| 5               | Ultra-Wideband<br>Horn Antenna              | 102615            | HF907                 | R&S          | 2019.01.19 | 2020.01.18   |
| 6               | Steatite Antennas                           | 17868             | QSH-SL-18<br>-26-S-20 | Seibersdorf  | 2019.01.12 | 2020.01.11   |
| 7               | Ultra-Wideband<br>Horn Antenna              | 17989             | QSH-26-40             | Schwarzbeck  | 2019.01.12 | 2020.01.11   |
| 8               | RF Switch and<br>Control Platform           | N/A               | RSC                   | CDSI         | N/A        | N/A          |
| 9               | Coaxial cable<br>(N male)<br>(9kHz -3GHz)   | EMC02             | N/A                   | Morlab       | 2019.01.04 | 2020.01.03   |
| 10              | Coaxial cable<br>(N male)<br>(9kHz -3GHz)   | EMC03             | N/A                   | Morlab       | 2019.01.04 | 2020.01.03   |
| 11              | Coaxial cable<br>(N male)<br>(1GHz-26.5GHz) | EMC04             | N/A                   | Morlab       | 2019.01.04 | 2020.01.03   |
| 12              | Coaxial cable<br>(N male)                   | EMC05             | N/A                   | Morlab       | 2019.01.04 | 2020.01.03   |



REPORT No. : XM19090099W02

|    |                                |                 |                     |      |            |            |
|----|--------------------------------|-----------------|---------------------|------|------------|------------|
|    | (1GHz-26.5GHz)                 |                 |                     |      |            |            |
| 13 | Pre-amplifier<br>(1GHz-18GHz)  | 8810011         | PAP-1G18            | CDSI | 2019.01.04 | 2020.01.03 |
| 14 | Pre-amplifier<br>(18GHz-40GHz) | 17021-1702<br>4 | PAP-1840            | CDSI | 2019.01.29 | 2020.01.28 |
| 15 | Band stop Filter               | EMC23           | BJF5150/53<br>50-50 | CDSI | 2019.01.04 | 2020.01.03 |
| 16 | Band stop Filter               | EMC25           | BJF5725/58<br>50-50 | CDSI | 2019.01.04 | 2020.01.03 |
| 17 | High Pass Filter               | EMC26           | HFP-8.0/18<br>G-60  | CDSI | 2019.01.04 | 2020.01.03 |

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