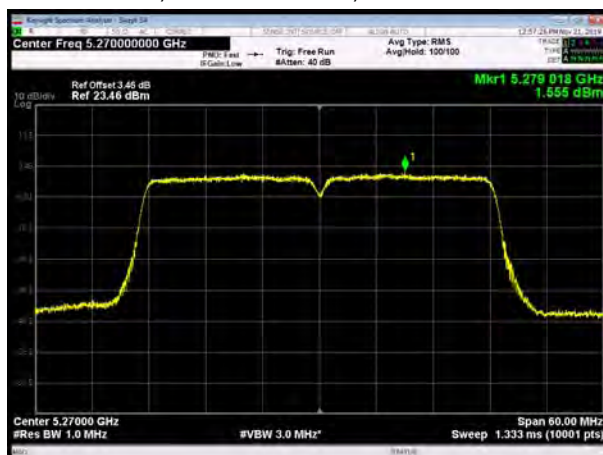


U-NII-2A, 802.11n HT20, Channel No.: 52



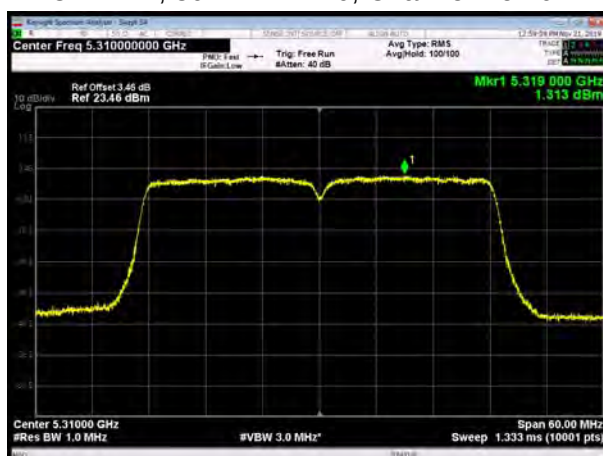
U-NII-2A, 802.11n HT40, Channel No.: 54



U-NII-2A, 802.11n HT20, Channel No.: 60



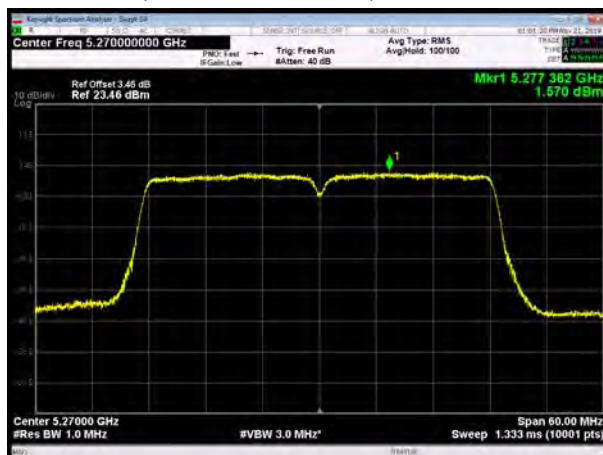
U-NII-2A, 802.11n HT40, Channel No.: 62



U-NII-2A, 802.11n HT20, Channel No.: 64



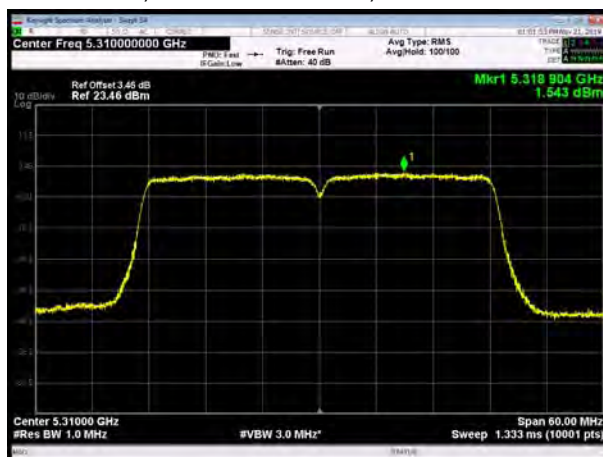
U-NII-2A, 802.11ac VHT40, Channel No.: 54



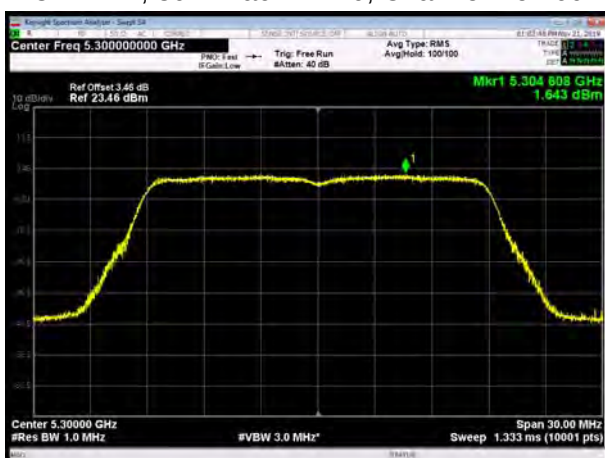
U-NII-2A, 802.11ac VHT20, Channel No.:52



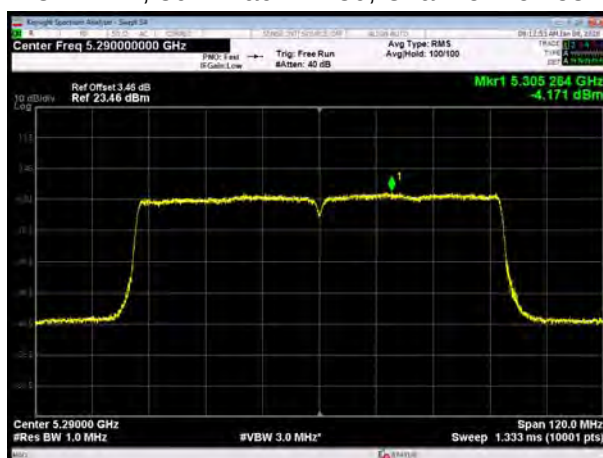
U-NII-2A, 802.11ac VHT40, Channel No.: 62



U-NII-2A, 802.11ac VHT20, Channel No.: 60



U-NII-2A, 802.11ac VHT80, Channel No.: 58



U-NII-2A, 802.11ac VHT20, Channel No.: 64



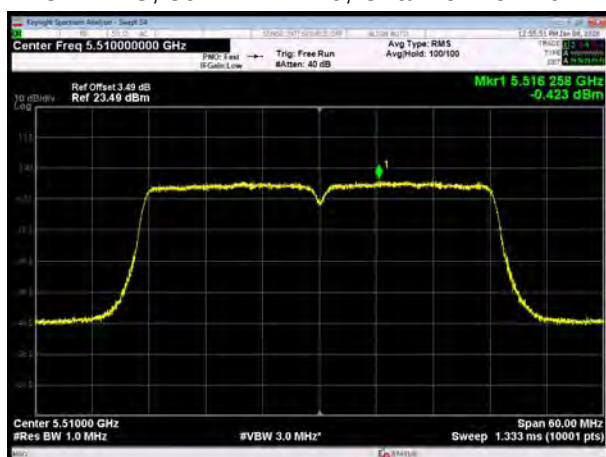




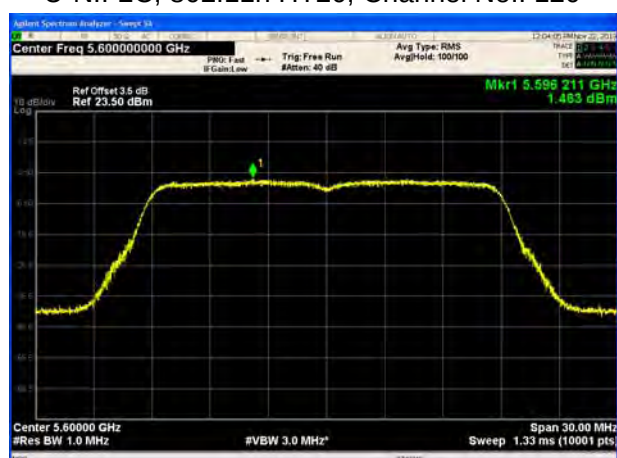
U-NII-2C, 802.11n HT20, Channel No.: 100



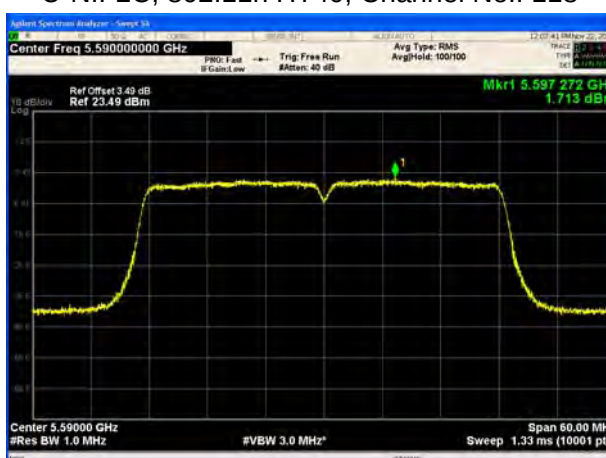
U-NII-2C, 802.11n HT40, Channel No.: 102



U-NII-2C, 802.11n HT20, Channel No.: 120



U-NII-2C, 802.11n HT40, Channel No.: 118



U-NII-2C, 802.11n HT20, Channel No.: 140



U-NII-2C, 802.11n HT40, Channel No.: 134





U-NII-2C, 802.11n HT20, Channel No.: 144



U-NII-2C, 802.11n HT40, Channel No.: 142

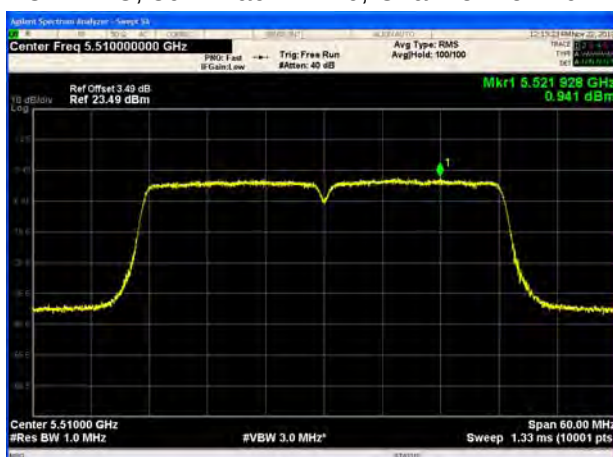




U-NII-2C, 802.11ac VHT20, Channel No.: 100



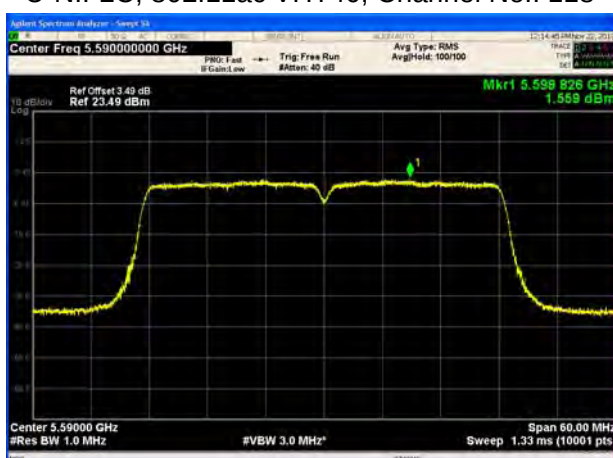
U-NII-2C, 802.11ac VHT40, Channel No.: 102



U-NII-2C, 802.11ac VHT20, Channel No.: 120



U-NII-2C, 802.11ac VHT40, Channel No.: 118



U-NII-2C, 802.11ac VHT20, Channel No.: 140



U-NII-2C, 802.11ac VHT40, Channel No.: 134



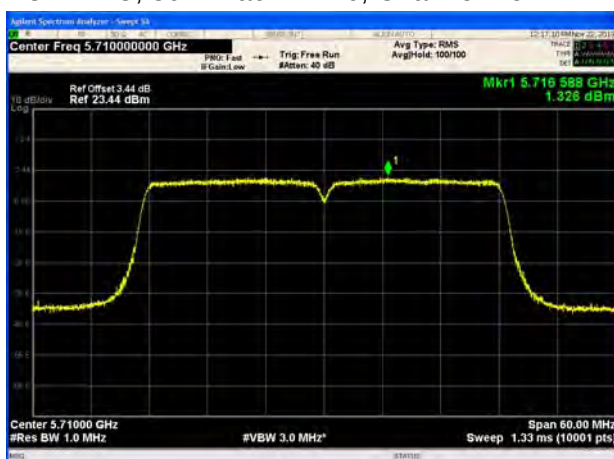




U-NII-2C, 802.11ac VHT20, Channel No.: 144



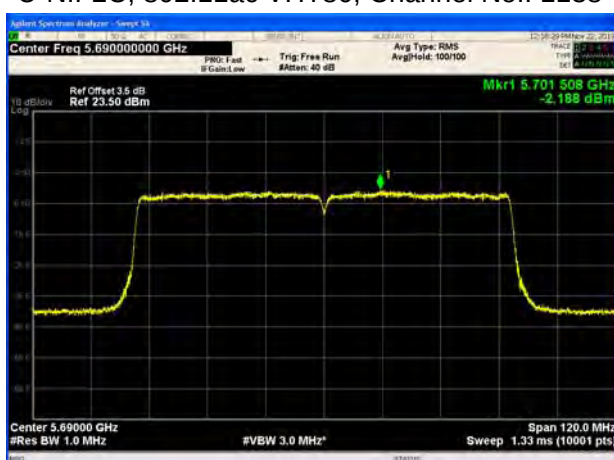
U-NII-2C, 802.11ac VHT40, Channel No.: 142



U-NII-2C, 802.11ac VHT80, Channel No.: 122



U-NII-2C, 802.11ac VHT80, Channel No.: 1138





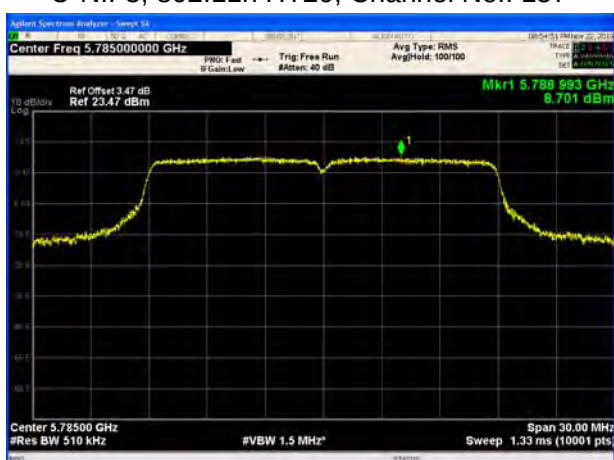
U-NII-3, 802.11n HT20, Channel No.: 149



U-NII-3, 802.11n HT40, Channel No.: 151



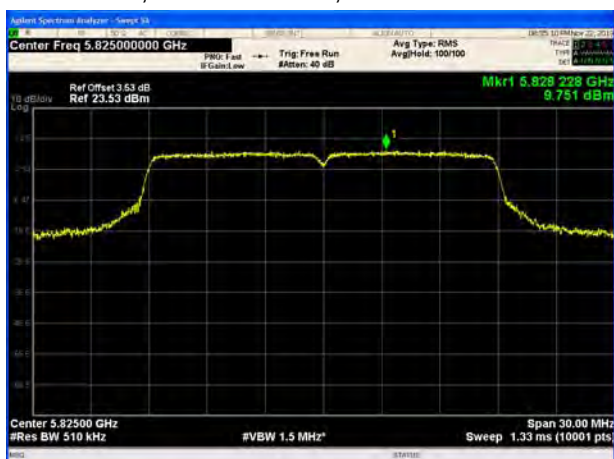
U-NII-3, 802.11n HT20, Channel No.: 157



U-NII-3, 802.11n HT40, Channel No.: 159



U-NII-3, 802.11n HT20, Channel No.: 165



U-NII-3, 802.11ac VHT40, Channel No.: 151

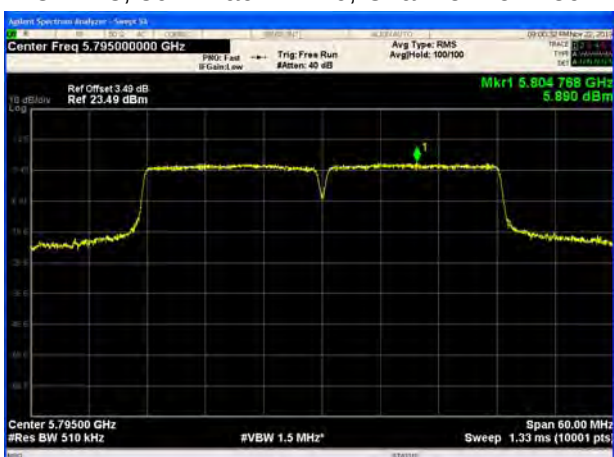




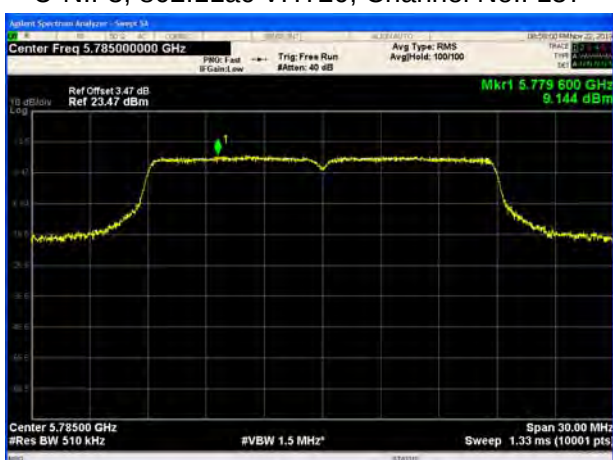
U-NII-3, 802.11ac VHT20, Channel No.: 149



U-NII-3, 802.11ac VHT40, Channel No.: 159



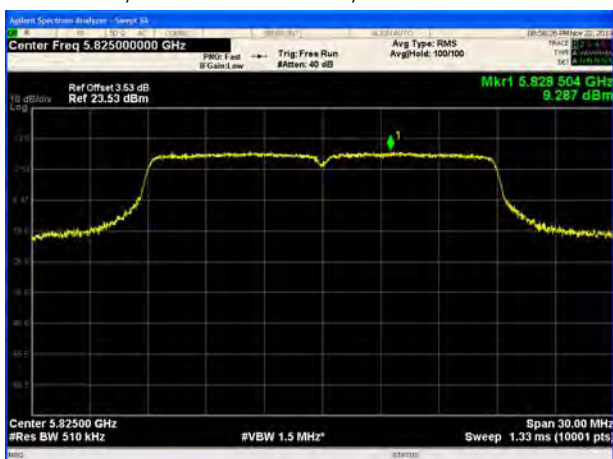
U-NII-3, 802.11ac VHT20, Channel No.: 157



U-NII-3, 802.11ac VHT80, Channel No.: 155



U-NII-3, 802.11ac VHT20, Channel No.: 165





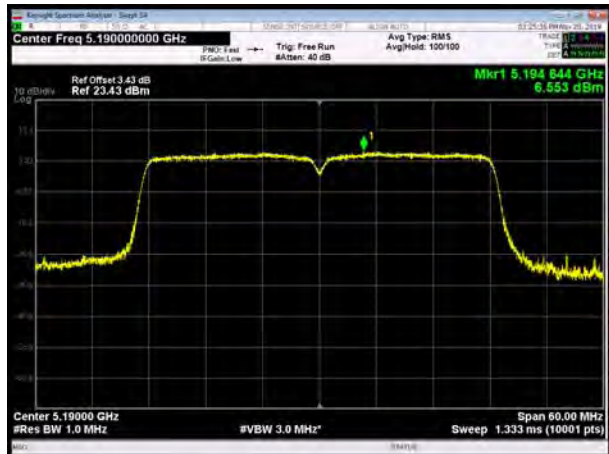


## MIMO Antenna 3

U-NII-1, 802.11n HT20, Channel No.: 36



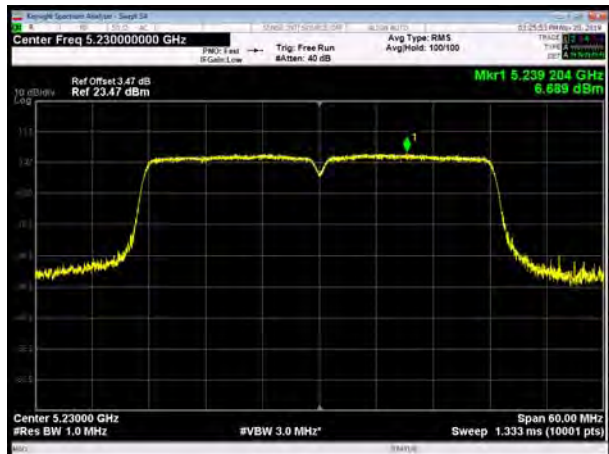
U-NII-1, 802.11n HT40, Channel No.: 38



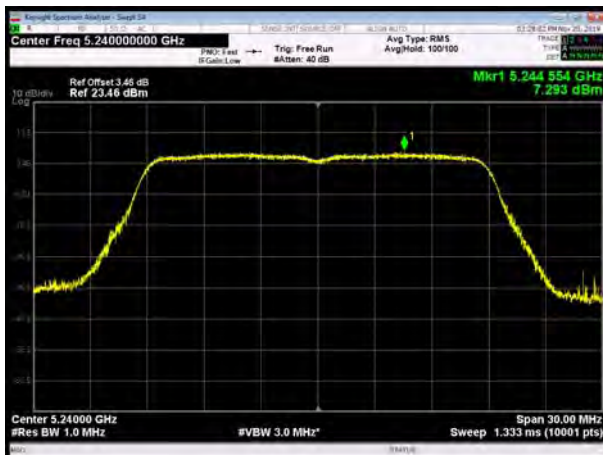
U-NII-1, 802.11n HT20, Channel No.: 40



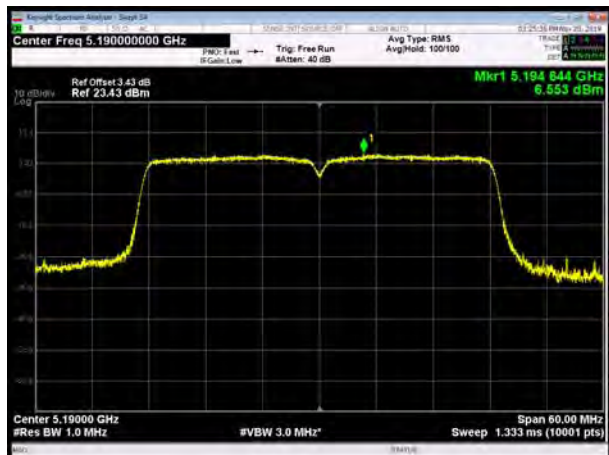
U-NII-1, 802.11n HT40, Channel No.: 46



U-NII-1, 802.11n HT20, Channel No.: 48

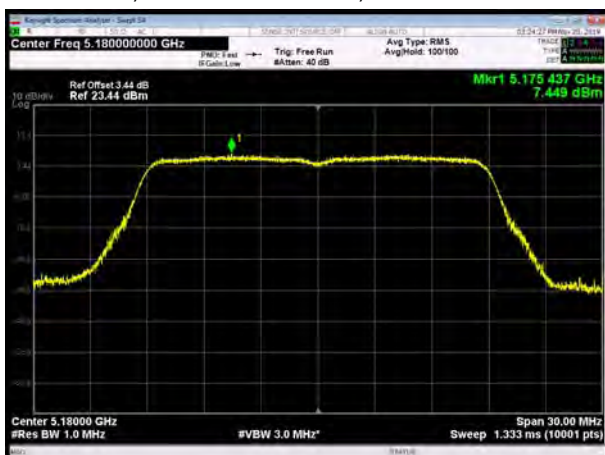


U-NII-1, 802.11ac VHT40, Channel No.: 38

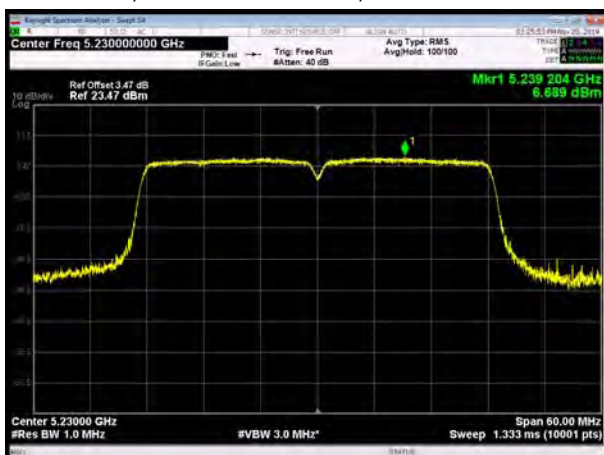




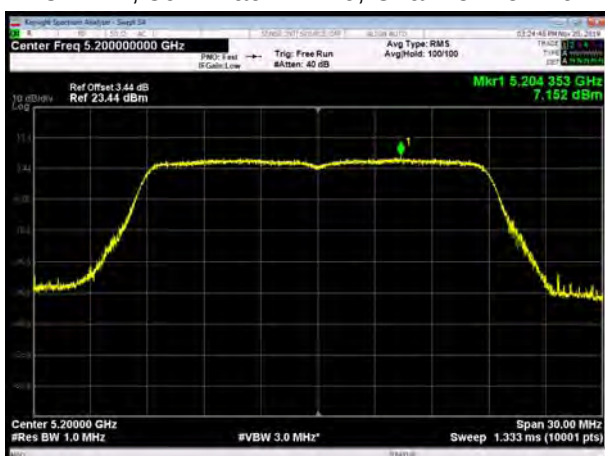
U-NII-1, 802.11ac VHT20, Channel No.: 36



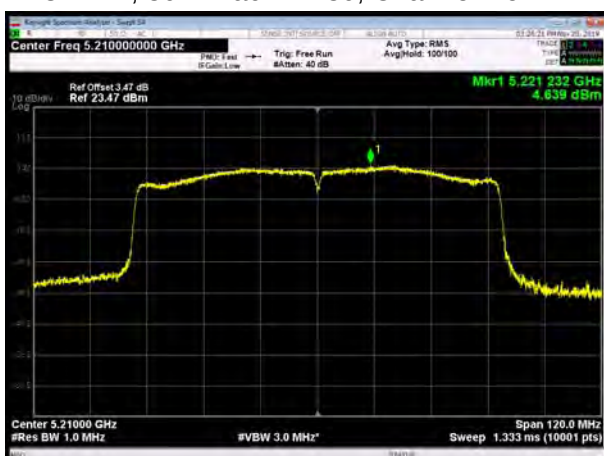
U-NII-1, 802.11ac VHT40, Channel No.: 46



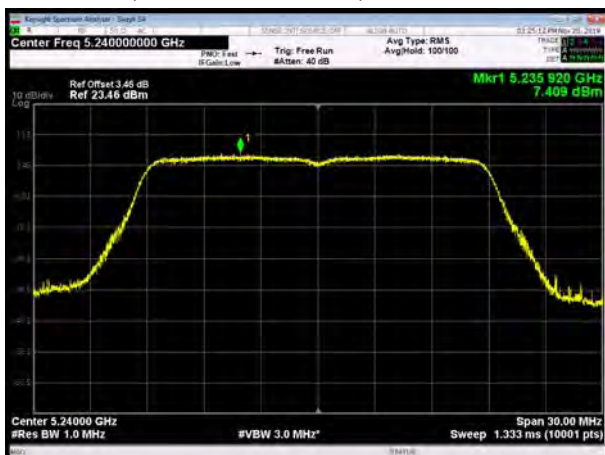
U-NII-1, 802.11ac VHT20, Channel No.: 40



U-NII-1, 802.11ac VHT80, Channel No.: 42



U-NII-1, 802.11ac VHT20, Channel No.: 48

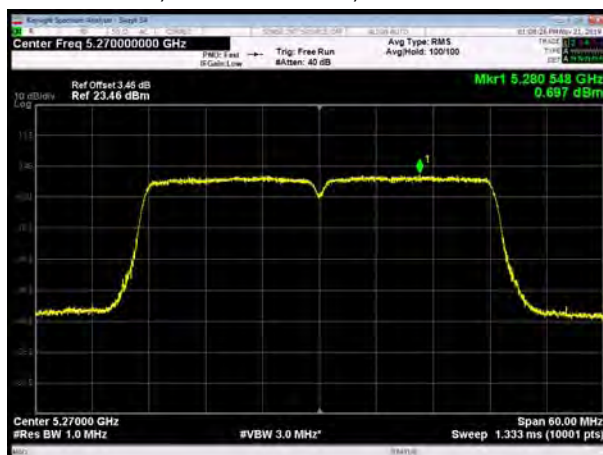




U-NII-2A, 802.11n HT20, Channel No.: 52



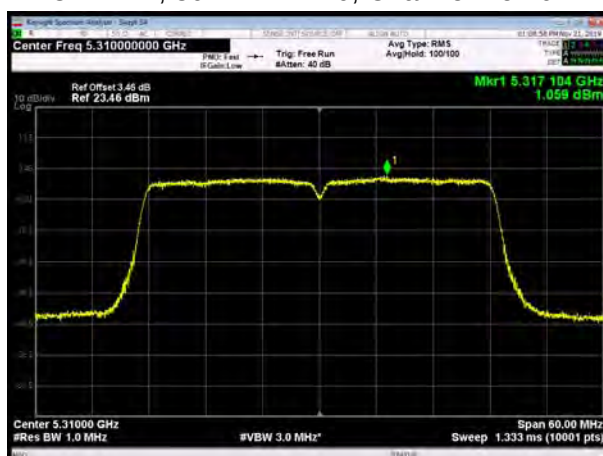
U-NII-2A, 802.11n HT40, Channel No.: 54



U-NII-2A, 802.11n HT20, Channel No.: 60



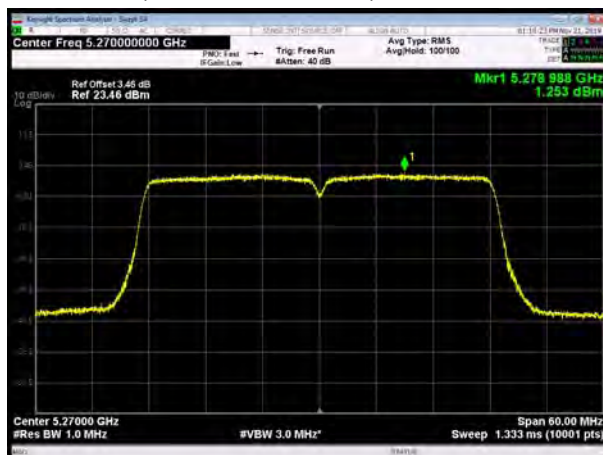
U-NII-2A, 802.11n HT40, Channel No.: 62



U-NII-2A, 802.11n HT20, Channel No.: 64



U-NII-2A, 802.11ac VHT40, Channel No.: 54





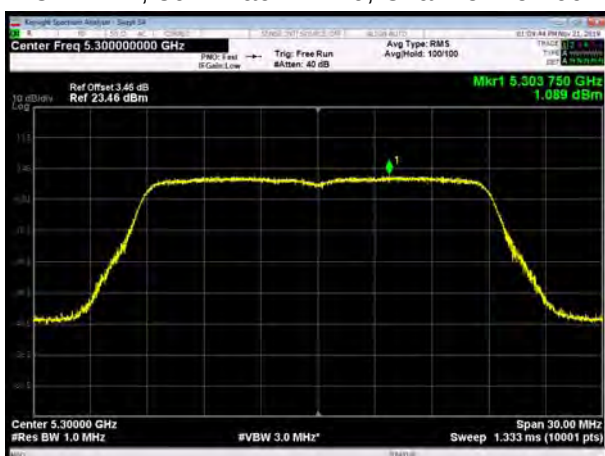
U-NII-2A, 802.11ac VHT20, Channel No.:52



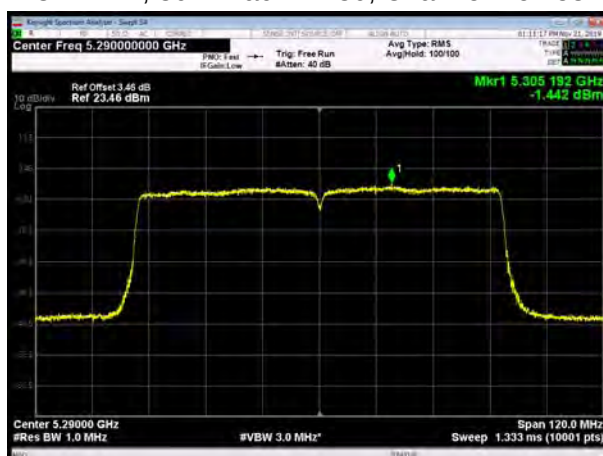
U-NII-2A, 802.11ac VHT40, Channel No.: 62



U-NII-2A, 802.11ac VHT20, Channel No.: 60



U-NII-2A, 802.11ac VHT80, Channel No.: 58



U-NII-2A, 802.11ac VHT20, Channel No.: 64

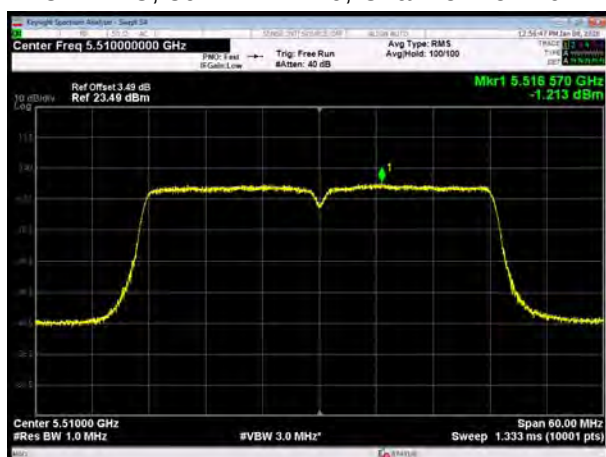




U-NII-2C, 802.11n HT20, Channel No.: 100



U-NII-2C, 802.11n HT40, Channel No.: 102



U-NII-2C, 802.11n HT20, Channel No.: 120



U-NII-2C, 802.11n HT40, Channel No.: 118



U-NII-2C, 802.11n HT20, Channel No.: 140



U-NII-2C, 802.11n HT40, Channel No.: 134

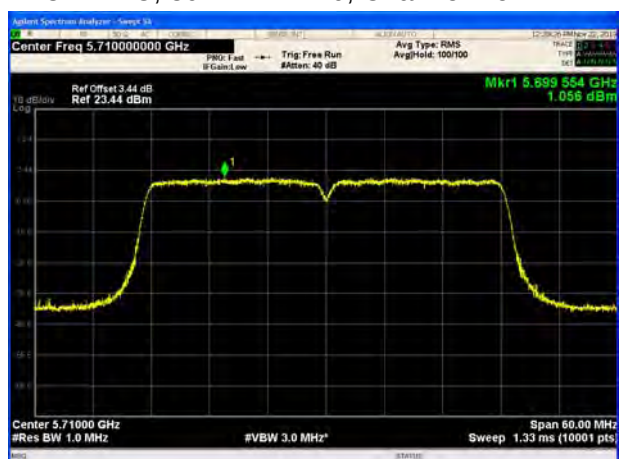




U-NII-2C, 802.11n HT20, Channel No.: 144



U-NII-2C, 802.11n HT40, Channel No.: 142



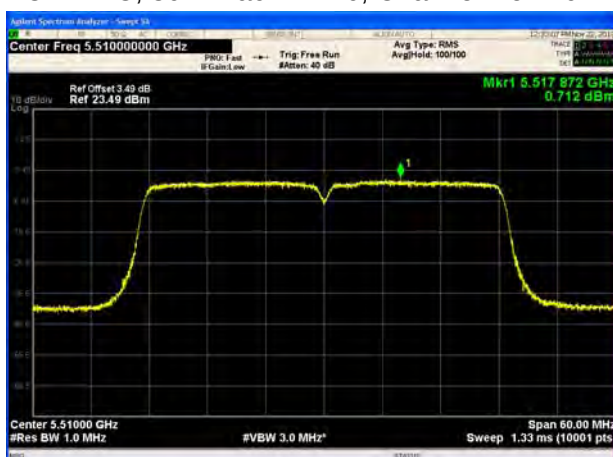




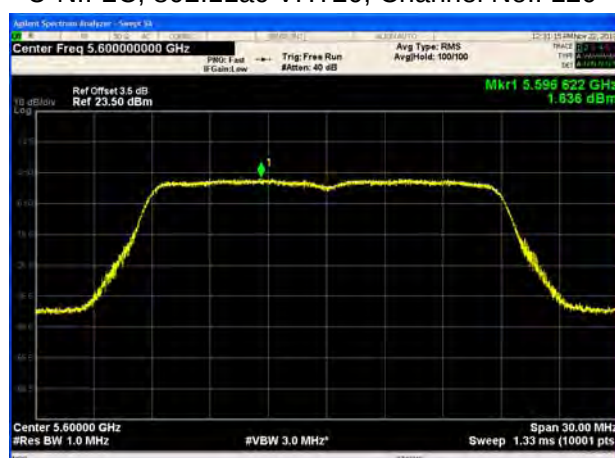
U-NII-2C, 802.11ac VHT20, Channel No.: 100



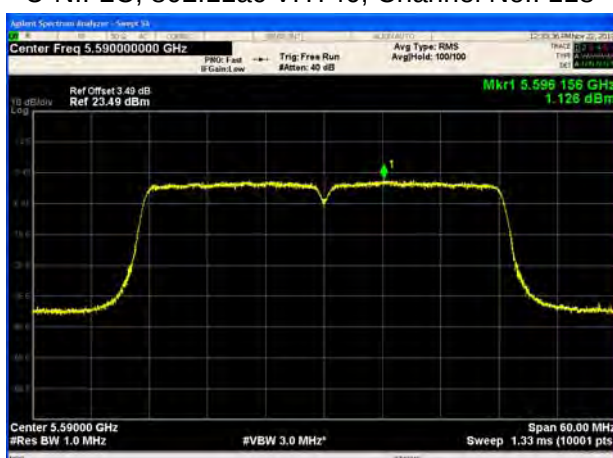
U-NII-2C, 802.11ac VHT40, Channel No.: 102



U-NII-2C, 802.11ac VHT20, Channel No.: 120



U-NII-2C, 802.11ac VHT40, Channel No.: 118



U-NII-2C, 802.11ac VHT20, Channel No.: 140



U-NII-2C, 802.11ac VHT40, Channel No.: 134

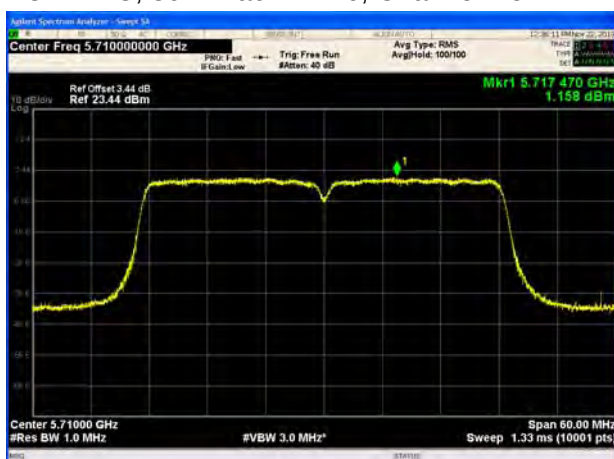




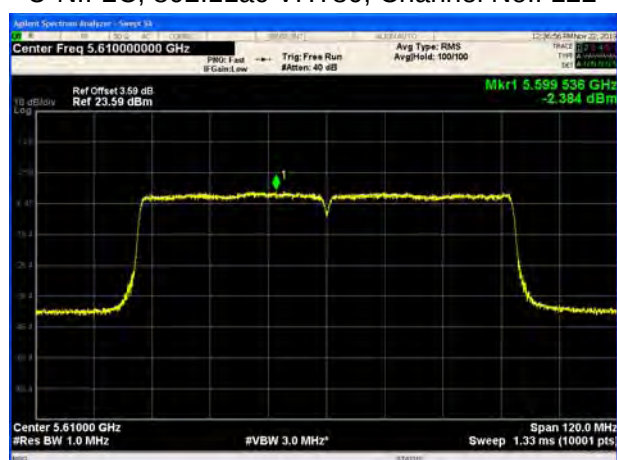
U-NII-2C, 802.11ac VHT20, Channel No.: 144



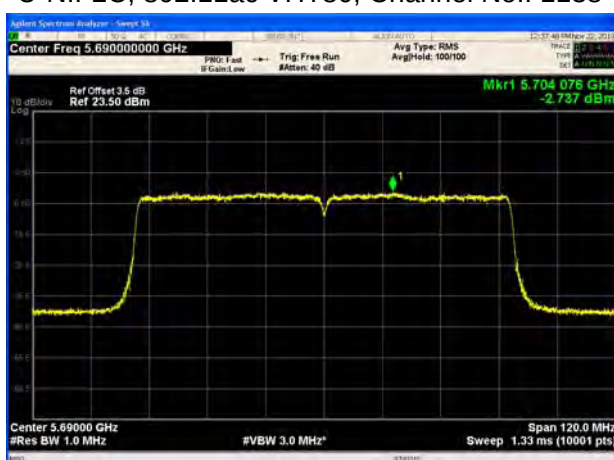
U-NII-2C, 802.11ac VHT40, Channel No.: 142



U-NII-2C, 802.11ac VHT80, Channel No.: 122



U-NII-2C, 802.11ac VHT80, Channel No.: 1138





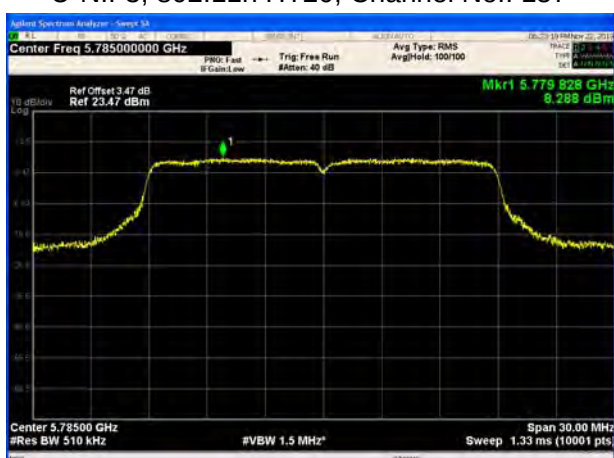
U-NII-3, 802.11n HT20, Channel No.: 149



U-NII-3, 802.11n HT40, Channel No.: 151



U-NII-3, 802.11n HT20, Channel No.: 157



U-NII-3, 802.11n HT40, Channel No.: 159



U-NII-3, 802.11n HT20, Channel No.: 165



U-NII-3, 802.11ac VHT40, Channel No.: 151



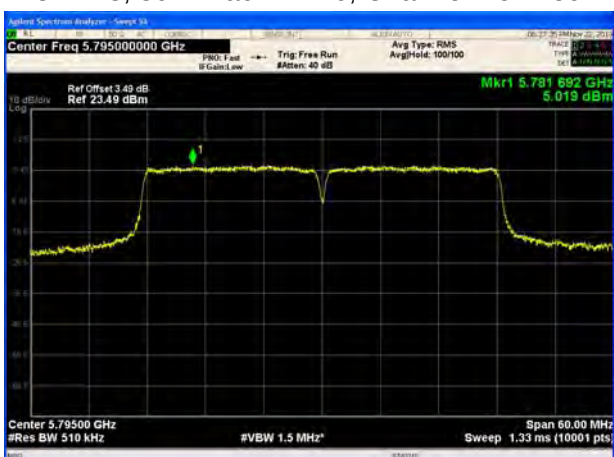




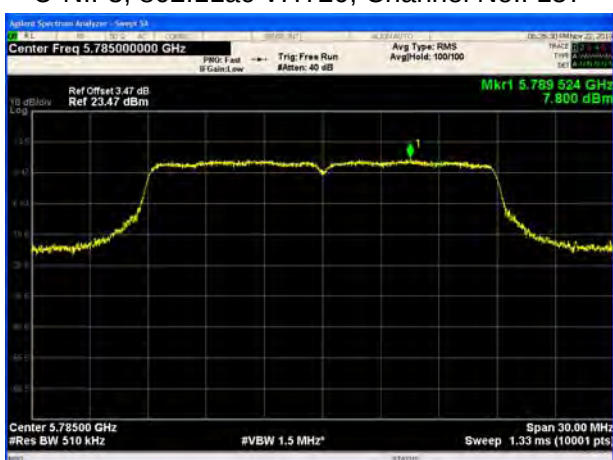
U-NII-3, 802.11ac VHT20, Channel No.: 149



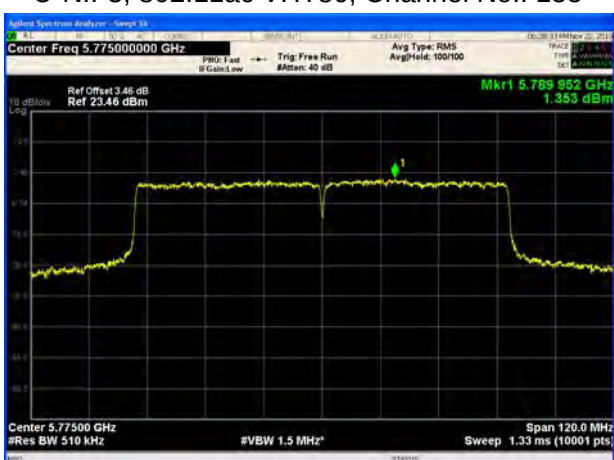
U-NII-3, 802.11ac VHT40, Channel No.: 159



U-NII-3, 802.11ac VHT20, Channel No.: 157



U-NII-3, 802.11ac VHT80, Channel No.: 155



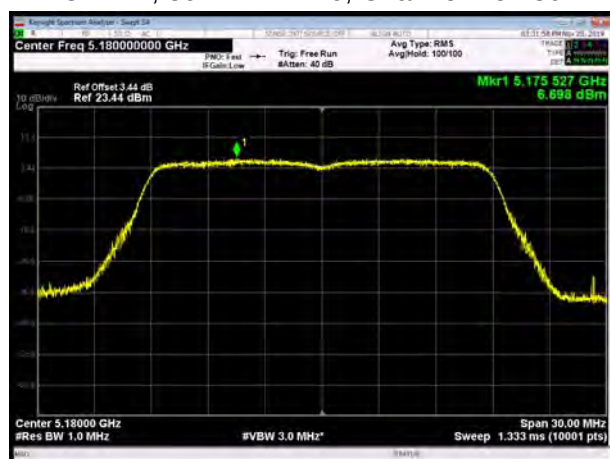
U-NII-3, 802.11ac VHT20, Channel No.: 165





## MIMO Antenna 4

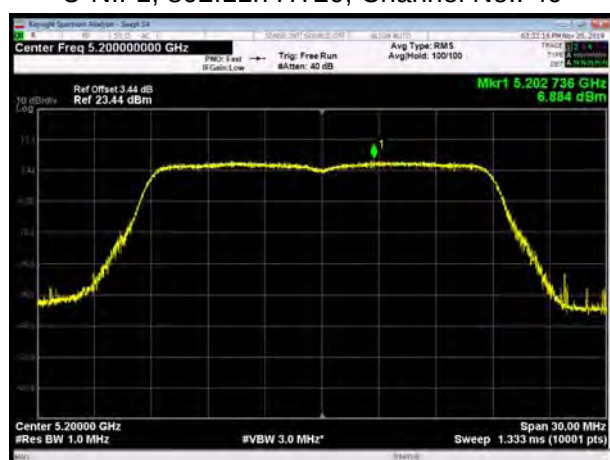
U-NII-1, 802.11n HT20, Channel No.: 36



U-NII-1, 802.11n HT40, Channel No.: 38



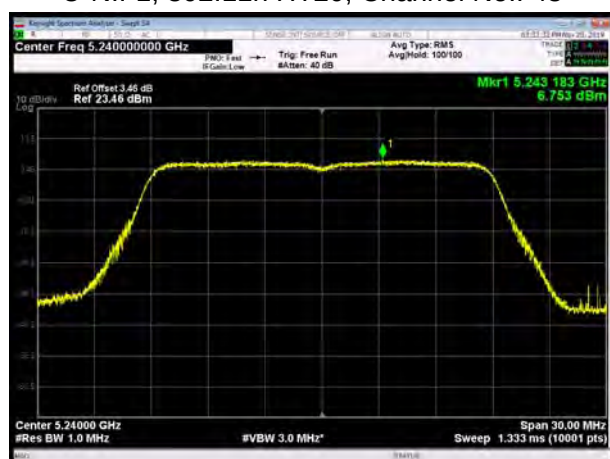
U-NII-1, 802.11n HT20, Channel No.: 40



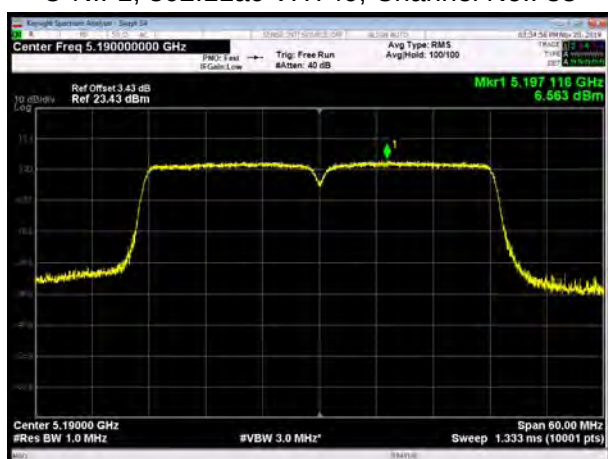
U-NII-1, 802.11n HT40, Channel No.: 46



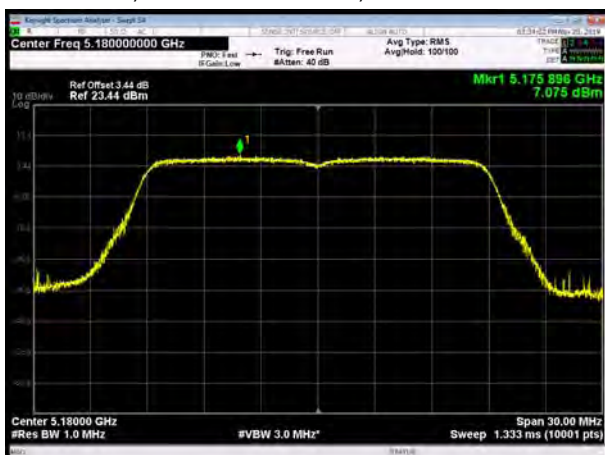
U-NII-1, 802.11n HT20, Channel No.: 48



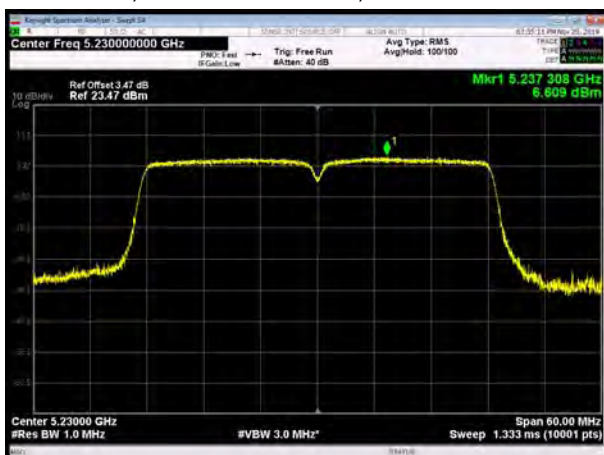
U-NII-1, 802.11ac VHT40, Channel No.: 38



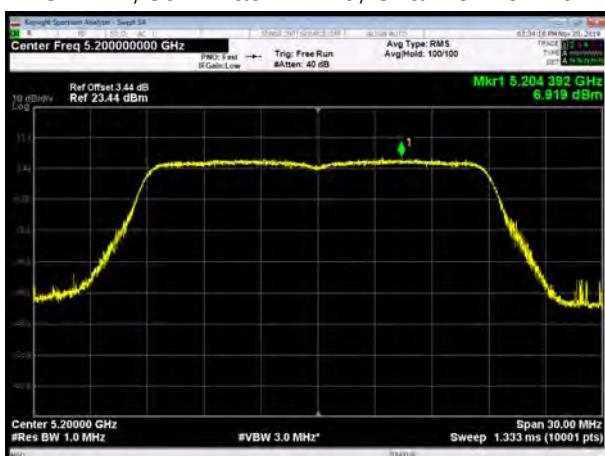
U-NII-1, 802.11ac VHT20, Channel No.: 36



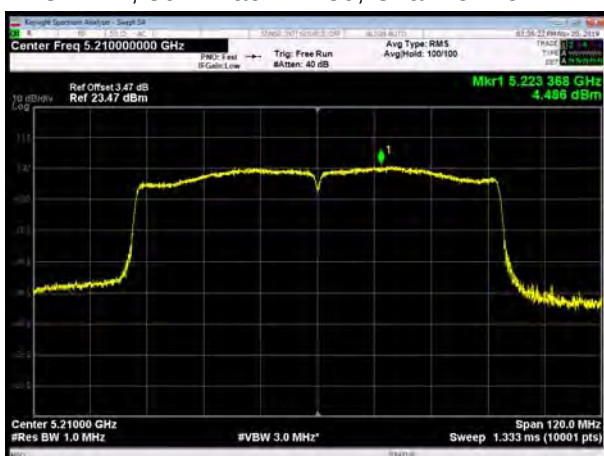
U-NII-1, 802.11ac VHT40, Channel No.: 46



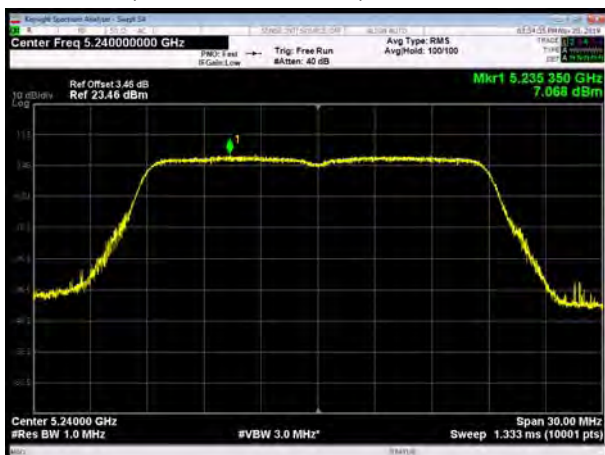
U-NII-1, 802.11ac VHT20, Channel No.: 40



U-NII-1, 802.11ac VHT80, Channel No.: 42



U-NII-1, 802.11ac VHT20, Channel No.: 48

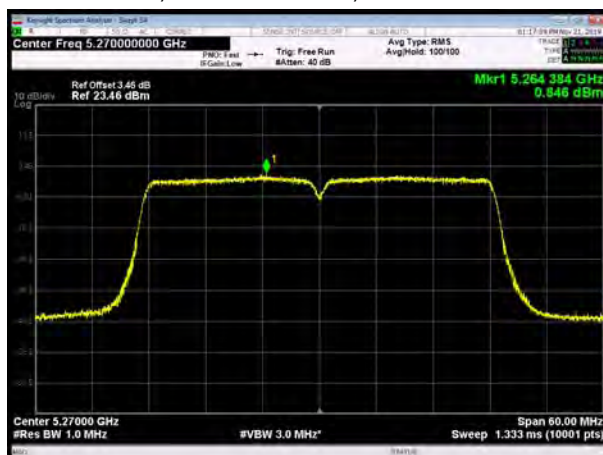




U-NII-2A, 802.11n HT20, Channel No.: 52



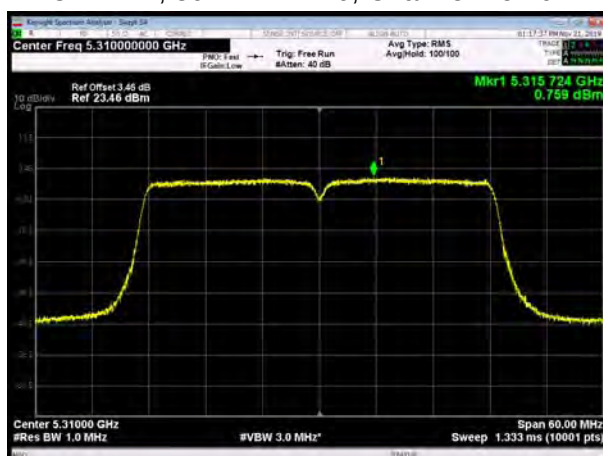
U-NII-2A, 802.11n HT40, Channel No.: 54



U-NII-2A, 802.11n HT20, Channel No.: 60



U-NII-2A, 802.11n HT40, Channel No.: 62



U-NII-2A, 802.11n HT20, Channel No.: 64



U-NII-2A, 802.11ac VHT40, Channel No.: 54

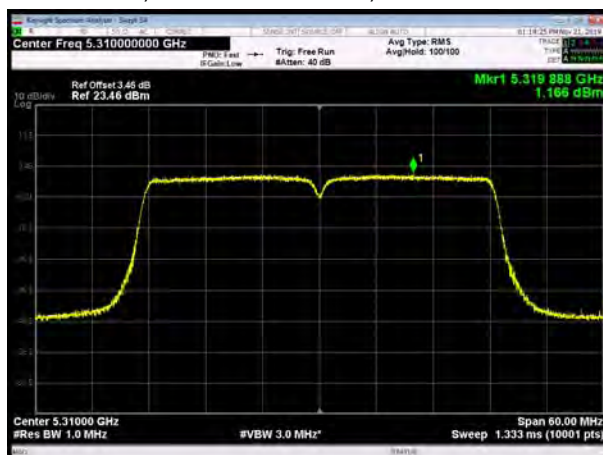




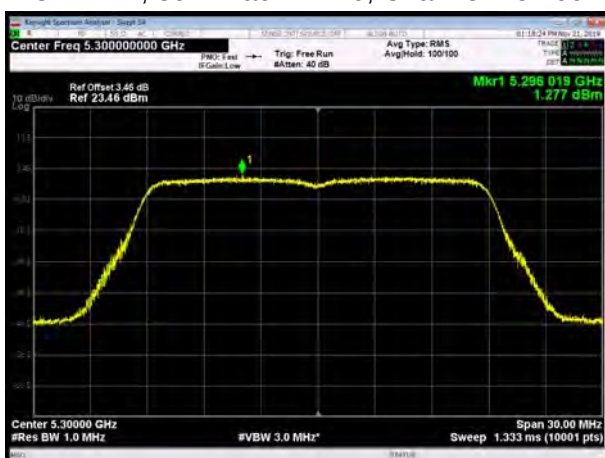
U-NII-2A, 802.11ac VHT20, Channel No.:52



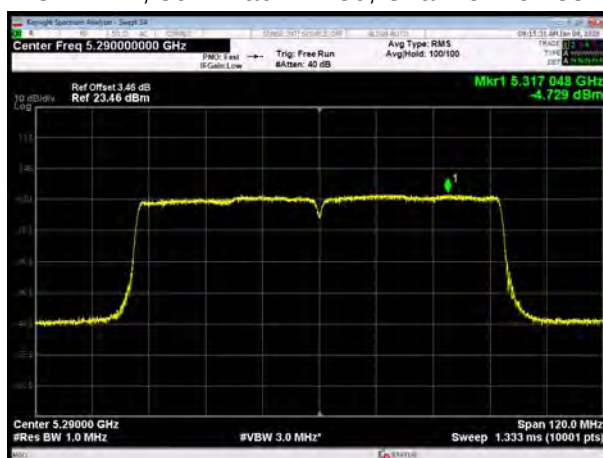
U-NII-2A, 802.11ac VHT40, Channel No.: 62



U-NII-2A, 802.11ac VHT20, Channel No.: 60



U-NII-2A, 802.11ac VHT80, Channel No.: 58



U-NII-2A, 802.11ac VHT20, Channel No.: 64



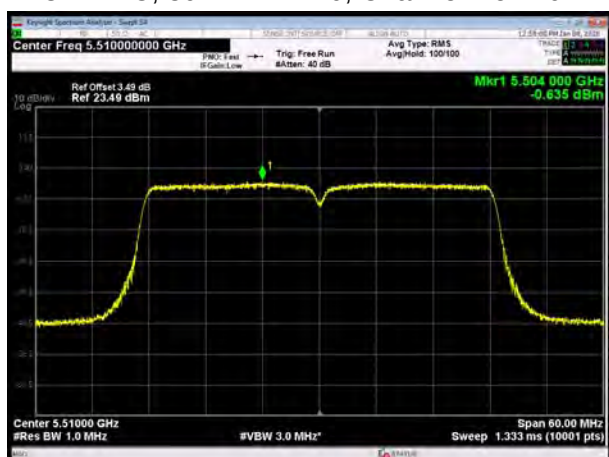




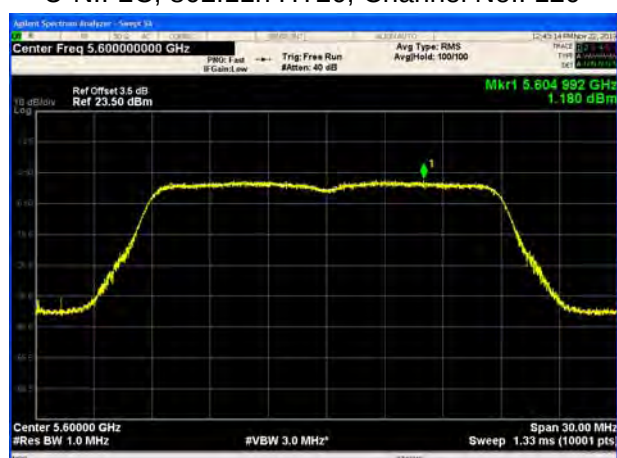
U-NII-2C, 802.11n HT20, Channel No.: 100



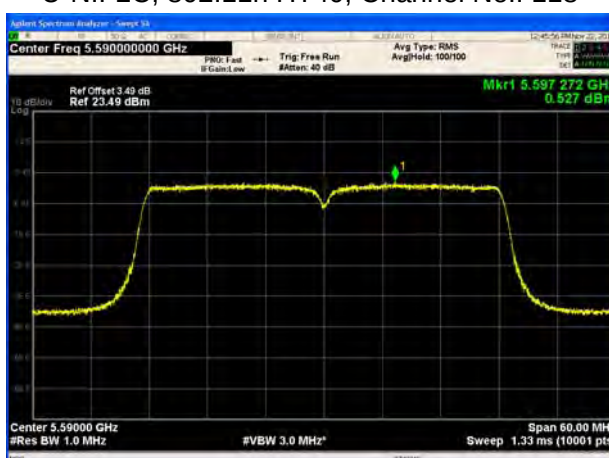
U-NII-2C, 802.11n HT40, Channel No.: 102



U-NII-2C, 802.11n HT20, Channel No.: 120



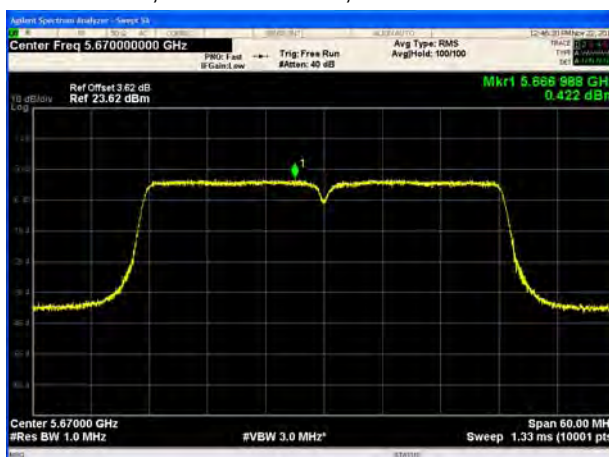
U-NII-2C, 802.11n HT40, Channel No.: 118



U-NII-2C, 802.11n HT20, Channel No.: 140



U-NII-2C, 802.11n HT40, Channel No.: 134



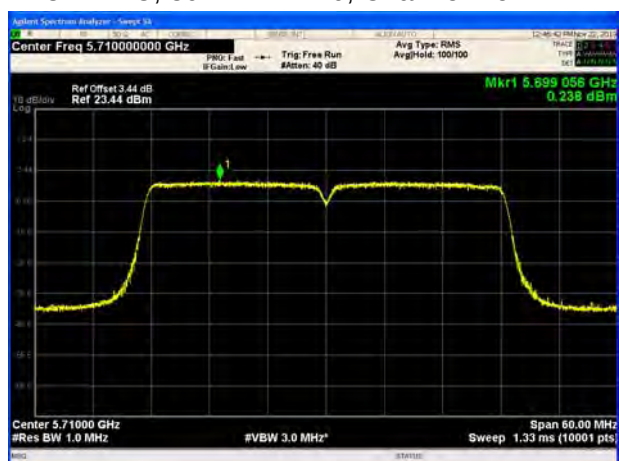




U-NII-2C, 802.11n HT20, Channel No.: 144



U-NII-2C, 802.11n HT40, Channel No.: 142

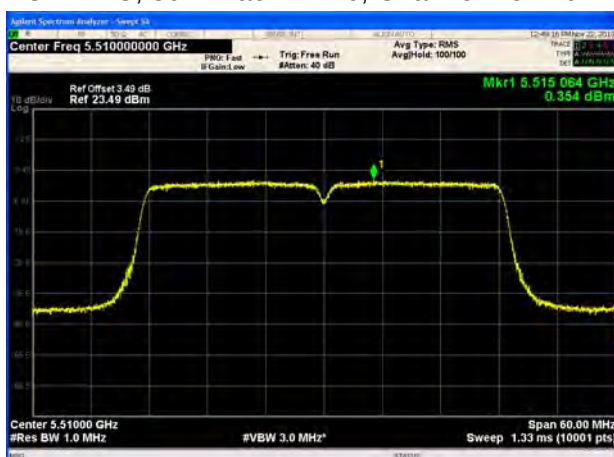




U-NII-2C, 802.11ac VHT20, Channel No.: 100



U-NII-2C, 802.11ac VHT40, Channel No.: 102



U-NII-2C, 802.11ac VHT20, Channel No.: 120



U-NII-2C, 802.11ac VHT40, Channel No.: 118



U-NII-2C, 802.11ac VHT20, Channel No.: 140



U-NII-2C, 802.11ac VHT40, Channel No.: 134

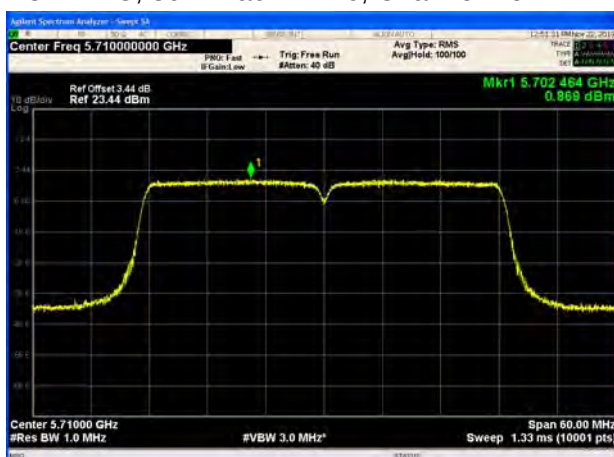




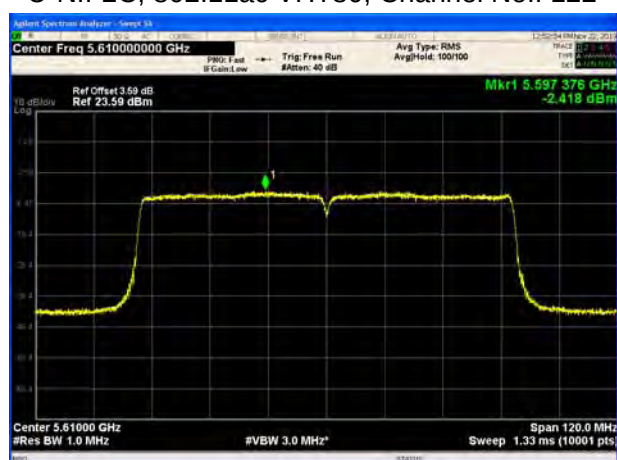
U-NII-2C, 802.11ac VHT20, Channel No.: 144



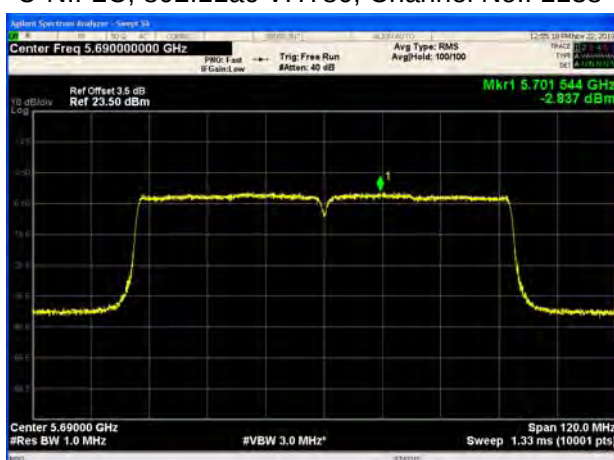
U-NII-2C, 802.11ac VHT40, Channel No.: 142



U-NII-2C, 802.11ac VHT80, Channel No.: 122



U-NII-2C, 802.11ac VHT80, Channel No.: 1138







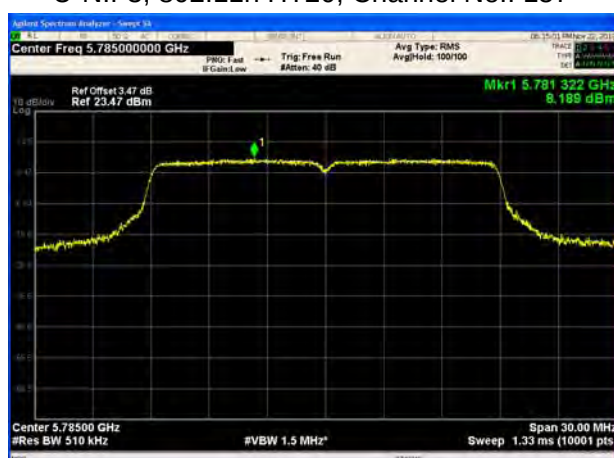
U-NII-3, 802.11n HT20, Channel No.: 149



U-NII-3, 802.11n HT40, Channel No.: 151



U-NII-3, 802.11n HT20, Channel No.: 157



U-NII-3, 802.11n HT40, Channel No.: 159



U-NII-3, 802.11n HT20, Channel No.: 165

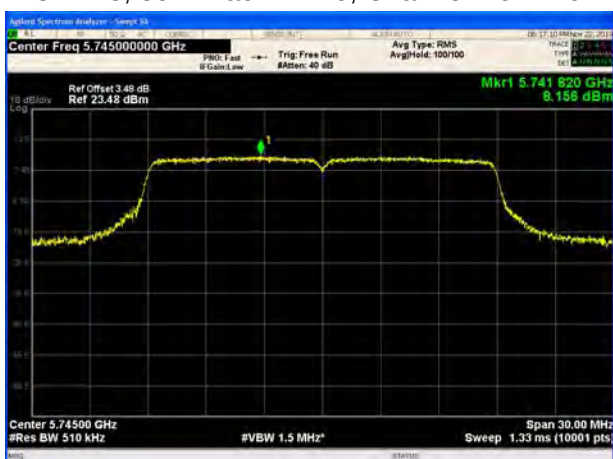


U-NII-3, 802.11ac VHT40, Channel No.: 151





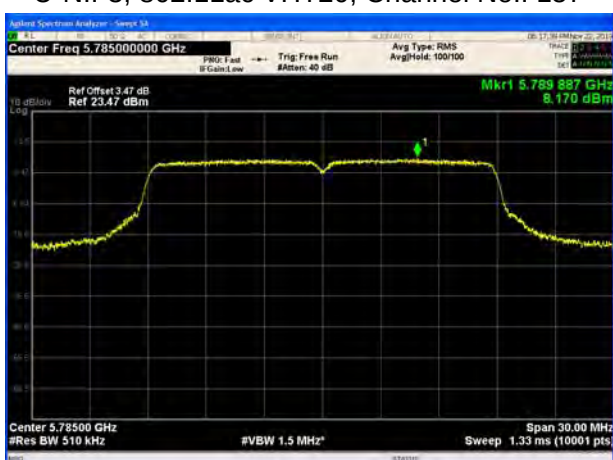
U-NII-3, 802.11ac VHT20, Channel No.: 149



U-NII-3, 802.11ac VHT40, Channel No.: 159



U-NII-3, 802.11ac VHT20, Channel No.: 157



U-NII-3, 802.11ac VHT80, Channel No.: 155



U-NII-3, 802.11ac VHT20, Channel No.: 165



## 5.5. Unwanted Emission

### Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

### Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration. Sweep the whole frequency band range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

Below 1GHz (detector: Peak and Quasi-Peak)

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz (detector: Peak):

I) Peak emission levels are measured by setting the instrument as follows:

- 1) RBW = 1 MHz.
- 2) VBW  $\geq [3 \times \text{RBW}]$
- 3) Detector = peak.
- 4) Sweep time = auto.
- 5) Trace mode = max hold.
- 6) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, then the time required for the trace to stabilize will increase by a factor of approximately  $1 / D$ , where D is the duty cycle.

II) Average emission levels are measured by setting the instrument as follows:

- a) RBW = 1 MHz.
- b) VBW  $\geq [3 \times \text{RBW}]$ .
- c) Detector = RMS (power averaging), if  $[\text{span} / (\# \text{ of points in sweep})] \leq \text{RBW} / 2$ . Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)





e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of  $1 / D$ , where  $D$  is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is  $[10 \log (1 / D)]$ , where  $D$  is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is  $[20 \log (1 / D)]$ , where  $D$  is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

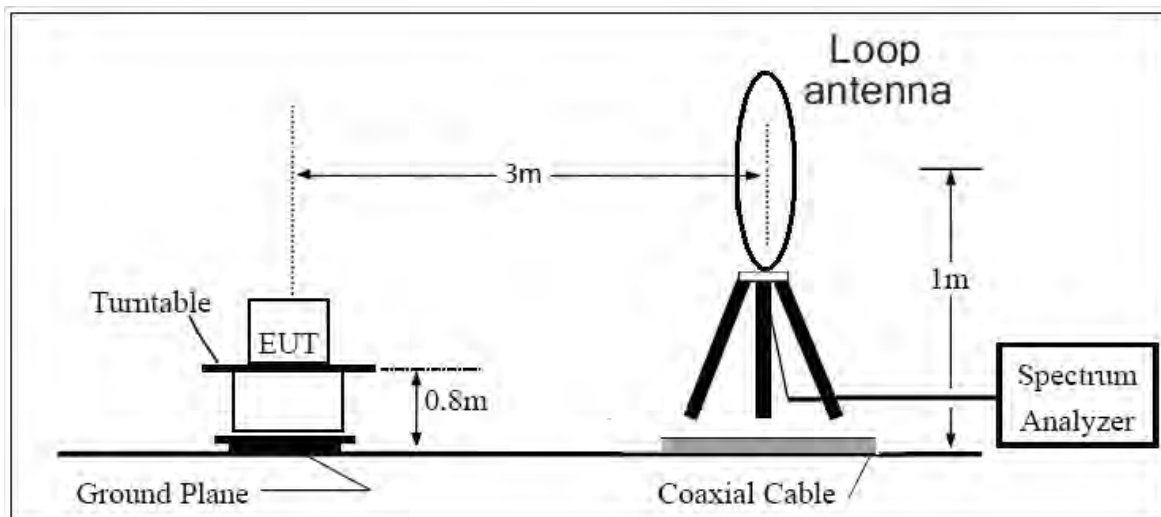
3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Reduce the video bandwidth until no significant variations in the displayed signal are observed in subsequent traces, provided the video bandwidth is no less than 1 Hz. For regulatory requirements that specify averaging only over the transmit duration (e.g., digital transmission system [DTS] and Unlicensed National Information Infrastructure [U-NII]), the video bandwidth shall be greater than  $[1 / (\text{minimum transmitter on time})]$  and no less than 1 Hz.

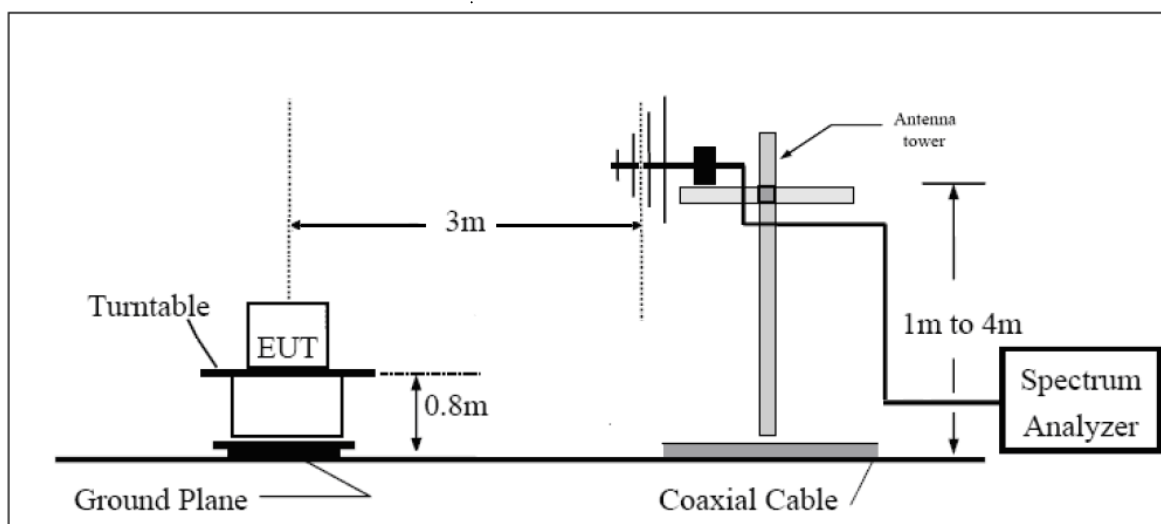
The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the loop antenna is vertical, others antenna are vertical and horizontal.

The test is in transmitting mode.

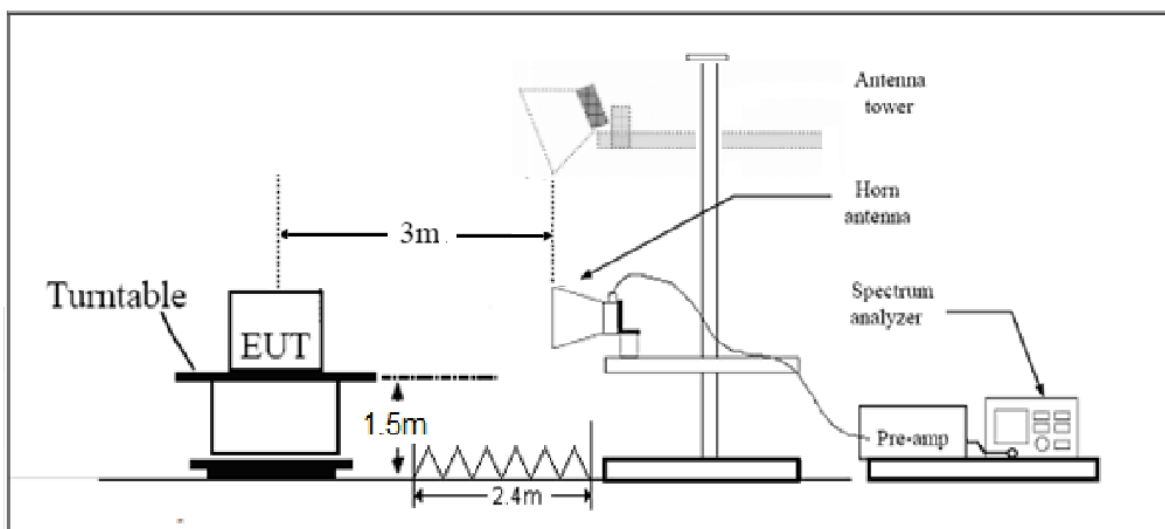
### 9KHz~~~30MHz



### 30MHz~~~ 1GHz



### Above 1GHz



Note: Area side:2.4mX3.6m

**Limits**

- (1) For transmitters operating in the 5725-5850 MHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) 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 e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (3) 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 e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).

Note: the following formula is used to convert the EIRP to field strength

§1、  $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$ , where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、  $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$ , for d = 3 meters

- (5) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

| Frequency of emission (MHz) | Field strength(uV/m) | Field strength(dBuV/m) |
|-----------------------------|----------------------|------------------------|
| 0.009–0.490                 | 2400/F(kHz)          | /                      |
| 0.490–1.705                 | 24000/F(kHz)         | /                      |
| 1.705–30.0                  | 30                   | /                      |
| 30-88                       | 100                  | 40                     |
| 88-216                      | 150                  | 43.5                   |
| 216-960                     | 200                  | 46                     |
| Above960                    | 500                  | 54                     |



| MHz                        | MHz                   | MHz             | GHz              |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525   | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905            | 16.80425 - 16.80475   | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128              | 25.5 - 25.67          | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775          | 37.5 - 38.25          | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775          | 73 - 74.6             | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218              | 74.8 - 75.2           | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825          | 108 - 121.94          | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225          | 123 - 138             | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294              | 149.9 - 150.05        | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366              | 156.52475 - 156.52525 | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675          | 156.7 - 156.9         | 2690 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475          | 162.0125 - 167.17     | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293             | 167.72 - 173.2        | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025        | 240 - 285             | 3345.8 - 3358   | 36.43 - 36.5     |
| 12.57675 - 12.57725        | 322 - 335.4           | 3600 - 4400     | ( <sup>2</sup> ) |
| 13.36 - 13.41              |                       |                 |                  |

### Measurement Uncertainty

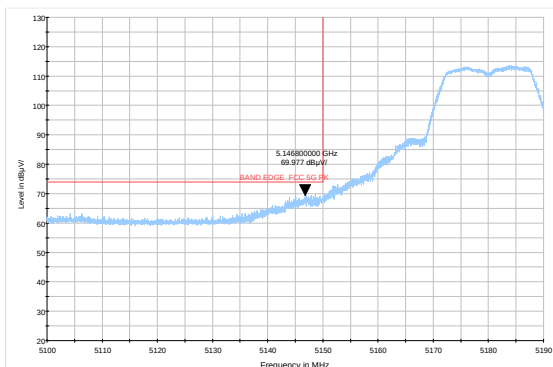
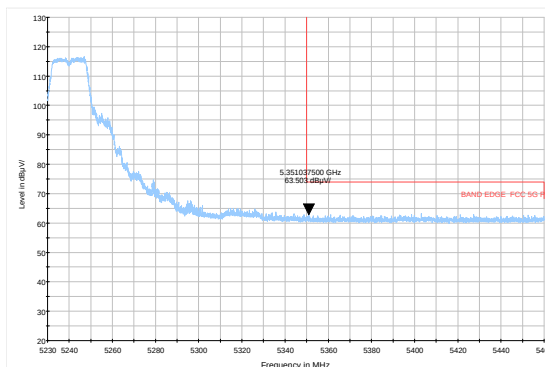
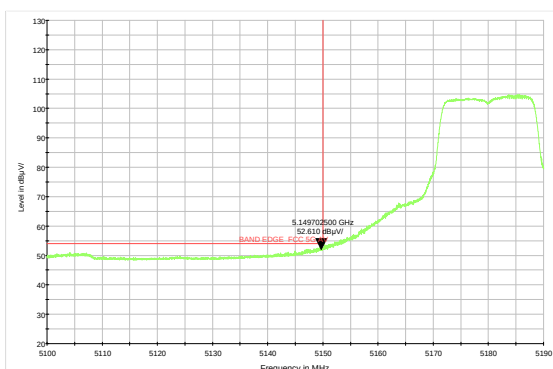
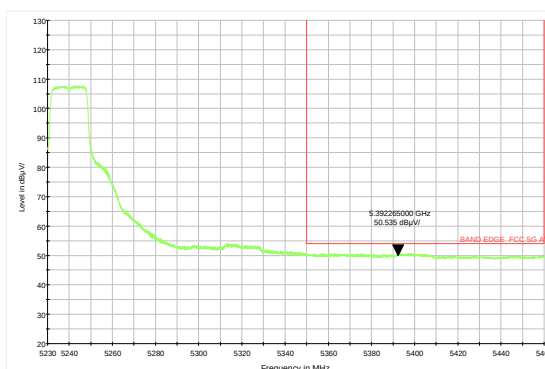
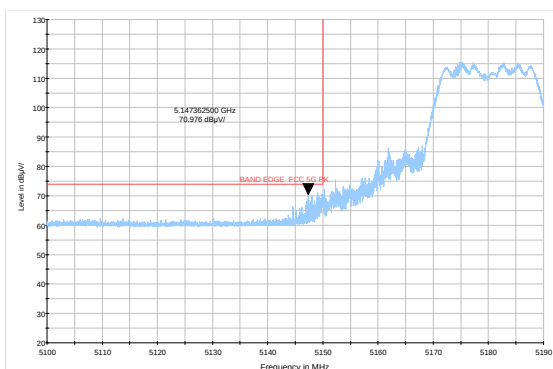
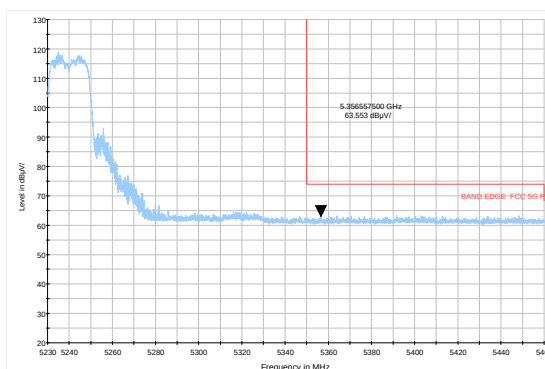
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ .

| Frequency     | Uncertainty |
|---------------|-------------|
| 9KHz-30MHz    | 3.55 dB     |
| 30MHz-200MHz  | 4.02 dB     |
| 200MHz-1GHz   | 3.28 dB     |
| 1GHz-18G      | 3.70 dB     |
| 18GHz-26.5GHz | 5.78 dB     |
| 26.5G-40GHz   | 5.82 dB     |

**Test Results:**

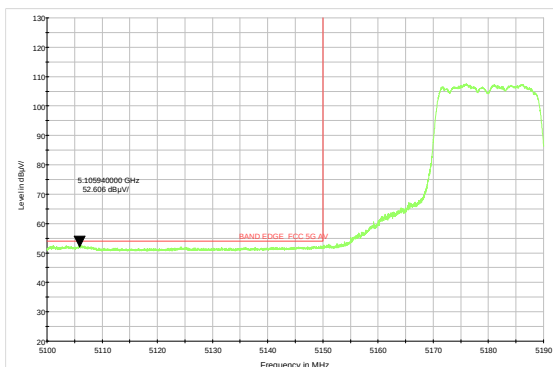
The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for V20MHz/V40MHz, therefore investigated worst case to representative mode in test report.

The signal beyond the limit is carrier.

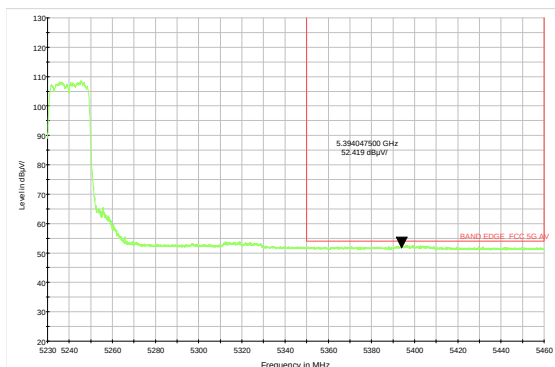
**U-NII-1****802.11a-Channel 36: Peak****802.11a-Channel 48: Peak****802.11a-Channel 36: Average****802.11a-Channel 48: Average****802.11n HT20-Channel 36: Peak****802.11n HT20-Channel 48: Peak**



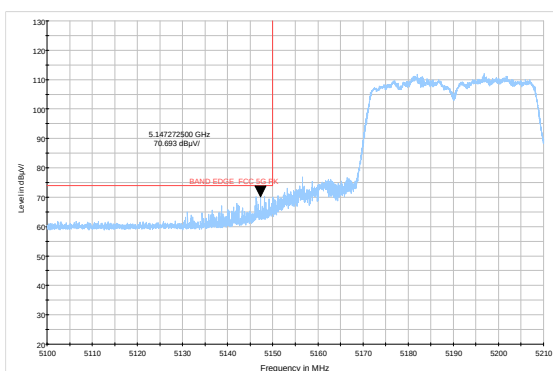
802.11n HT20-Channel 36: Average



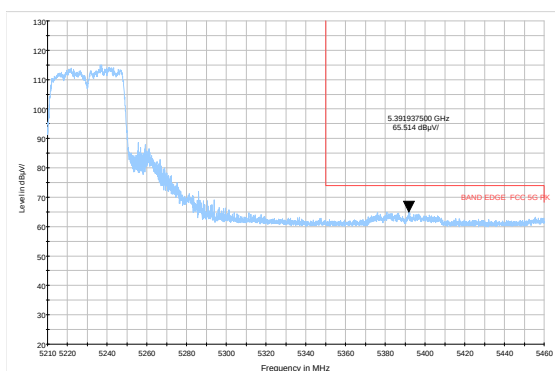
802.11n HT20-Channel 48: Average



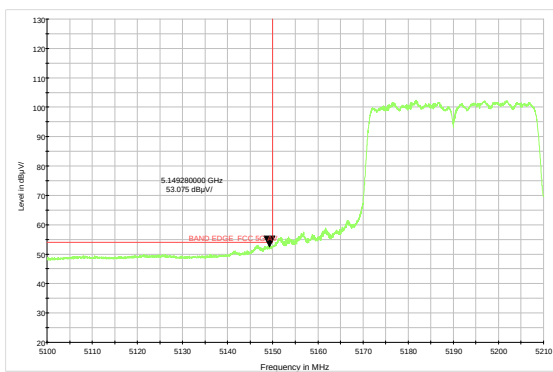
802.11n HT40-Channel 38: Peak



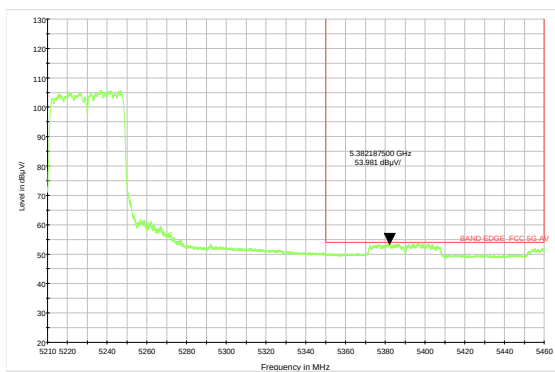
802.11n HT40-Channel 46: Peak



802.11n HT40-Channel 38: Average



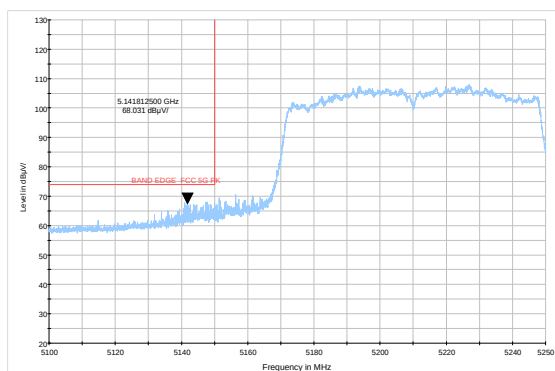
802.11n HT40-Channel 46: Average



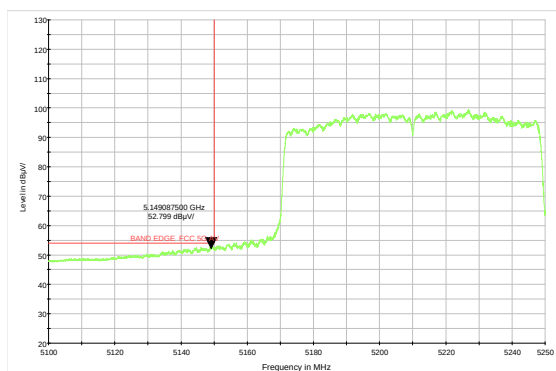




## 802.11ac VHT80 -Channel 42: Peak



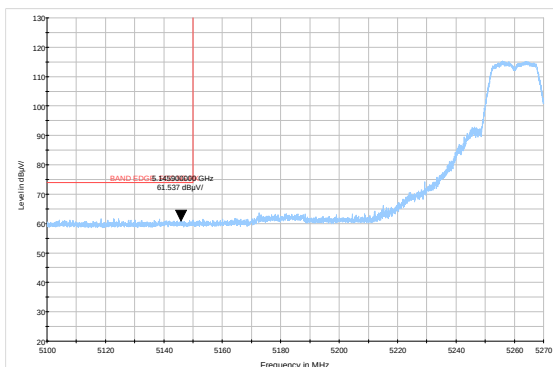
## 802.11ac VHT80- Channel 42: Average



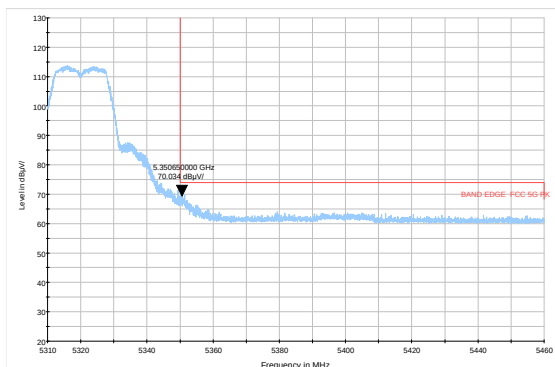


## U-NII-2A

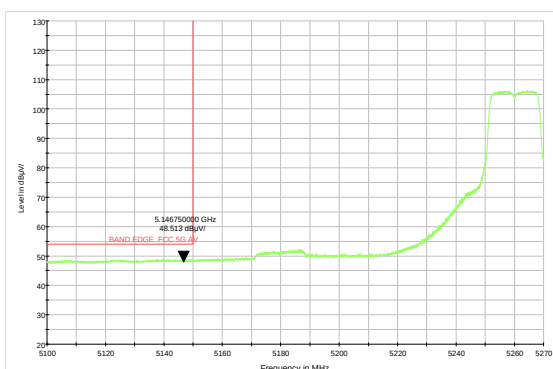
802.11a-Channel 52: Peak



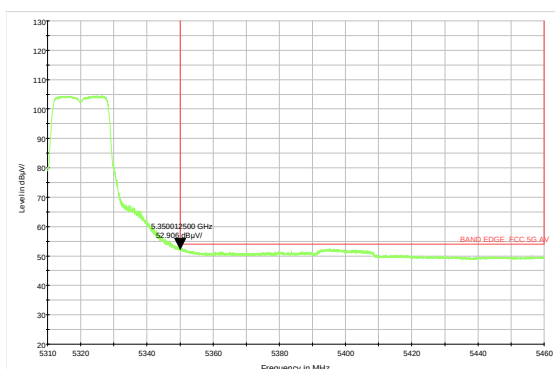
802.11a-Channel 64: Peak



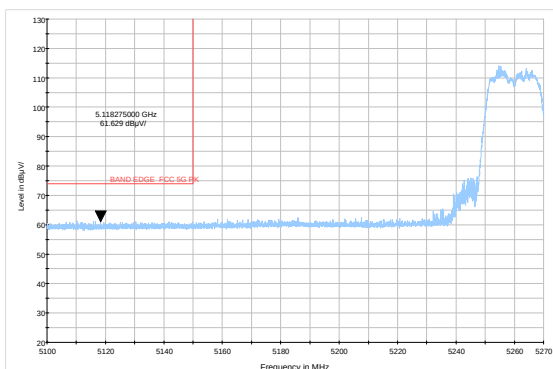
802.11a-Channel 52: Average



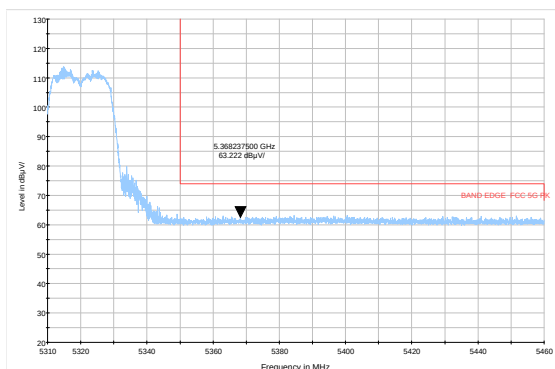
802.11a-Channel 64: Average



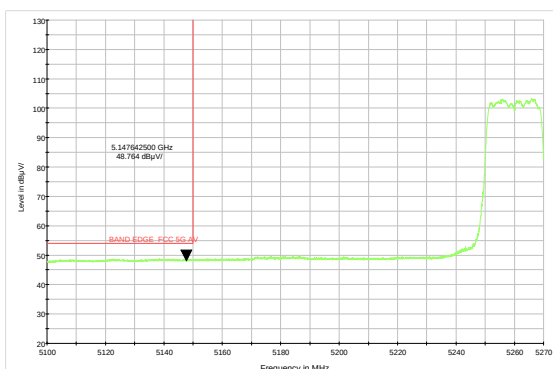
802.11n HT20-Channel 52: Peak



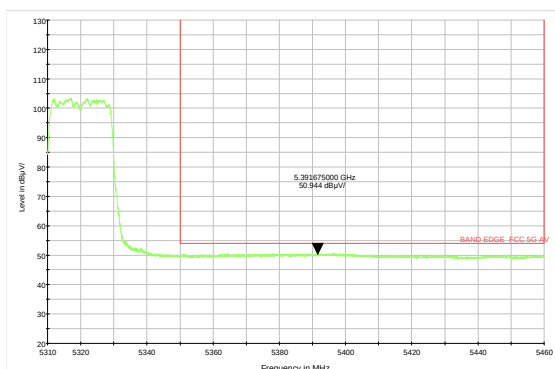
802.11n HT20-Channel 64: Peak



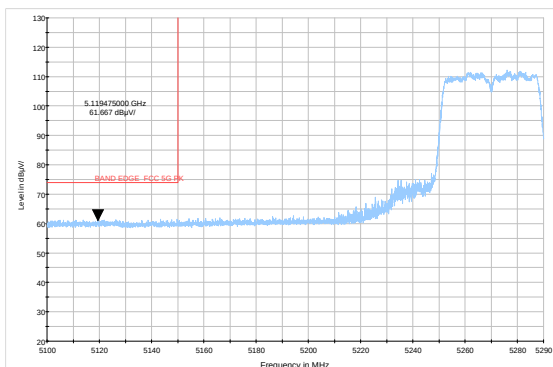
802.11n HT20-Channel 52: Average



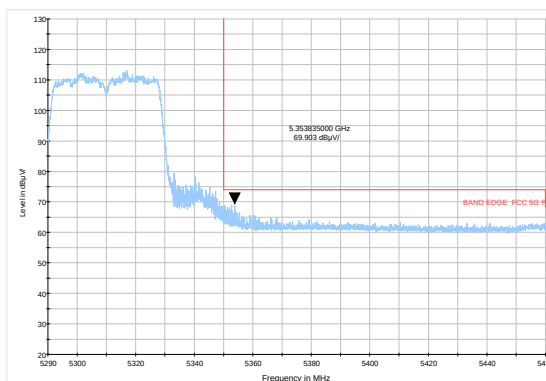
802.11n HT20-Channel 64: Average



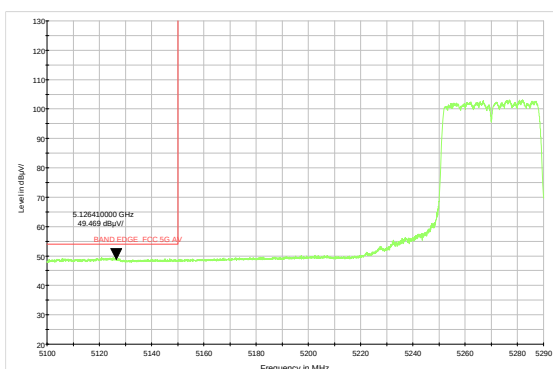
802.11n HT40-Channel 54: Peak



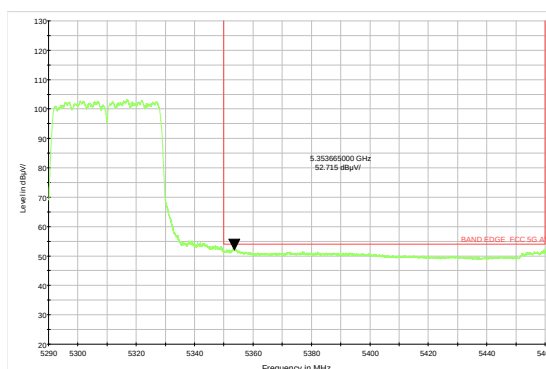
802.11n HT40-Channel 62: Peak



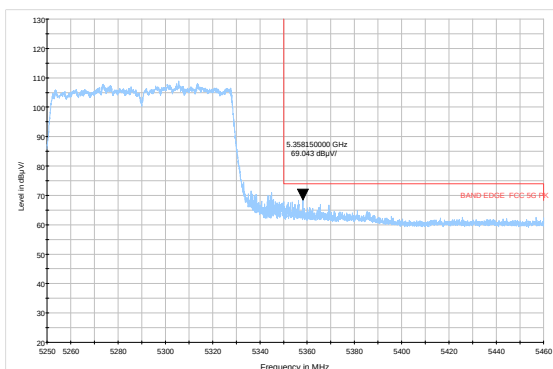
802.11n HT40-Channel 54: Average



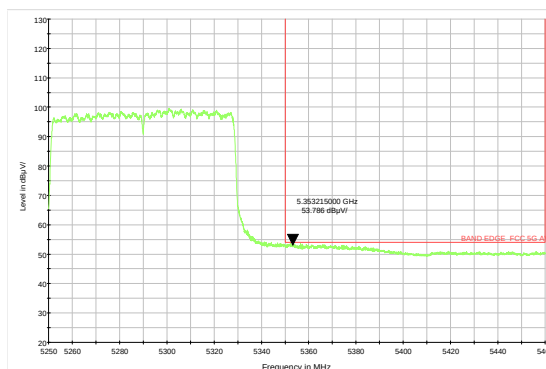
802.11n HT40-Channel 62: Average



802.11ac VHT80 –Channel 58: Peak



802.11ac VHT80- Channel 58: Average

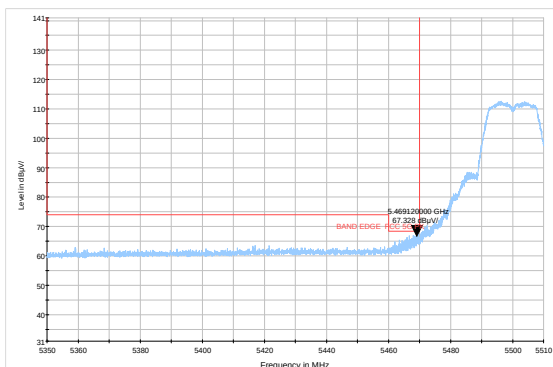




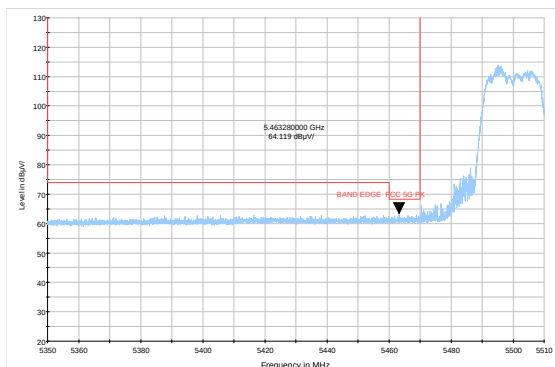


## U-NII-2C

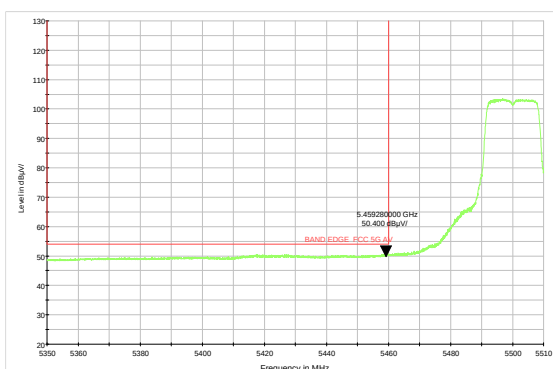
802.11a-Channel 100: Peak



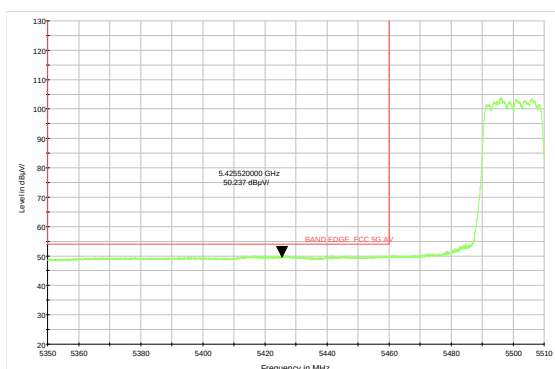
802.11n HT20-Channel 100: Peak



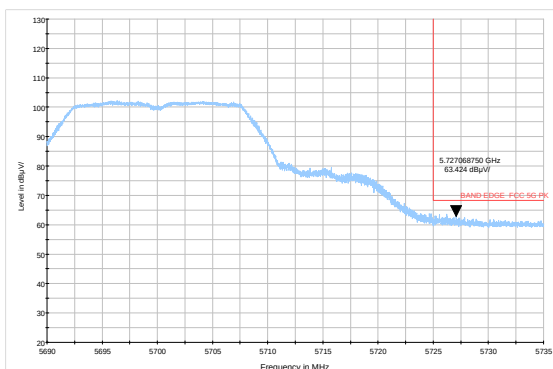
802.11a-Channel 100: Average



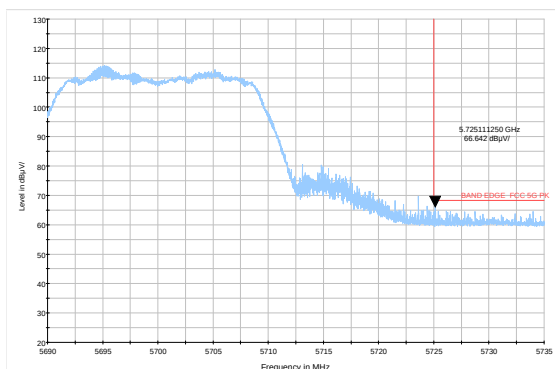
802.11n HT20-Channel 100: Average



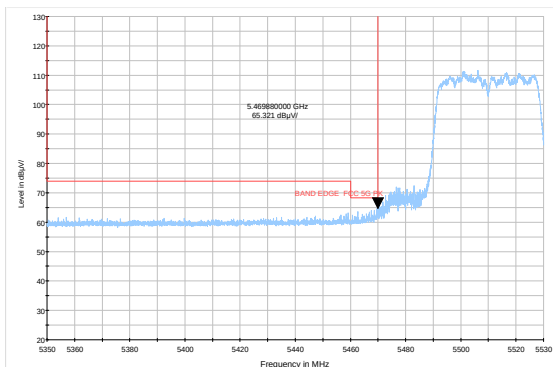
802.11a-Channel 140: Peak



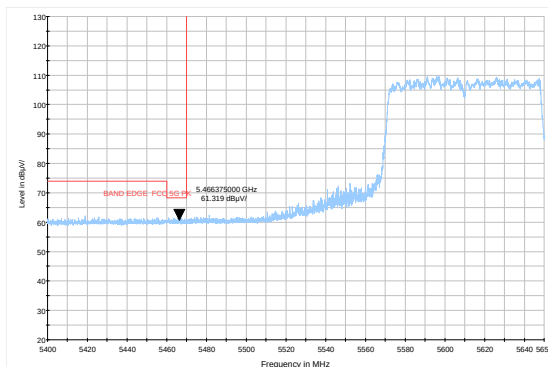
802.11n HT20-Channel 140: Peak



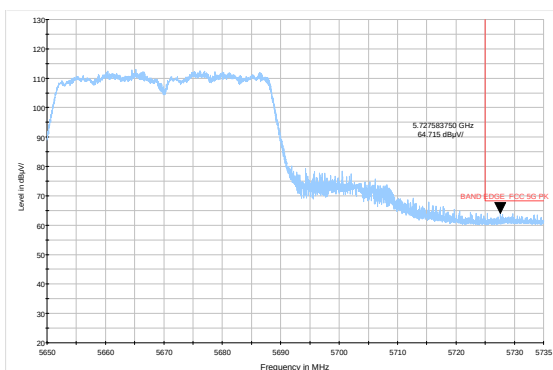
802.11n HT40-Channel 102: Peak



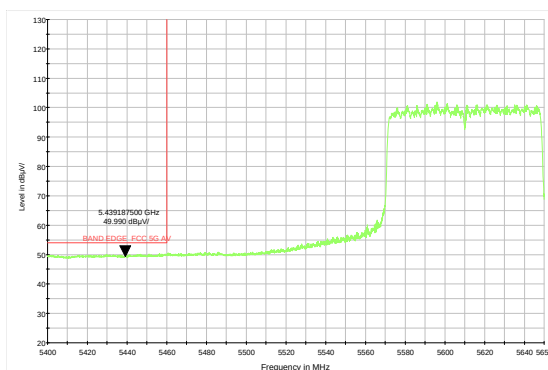
802.11ac VHT80 -Channel 122: Peak



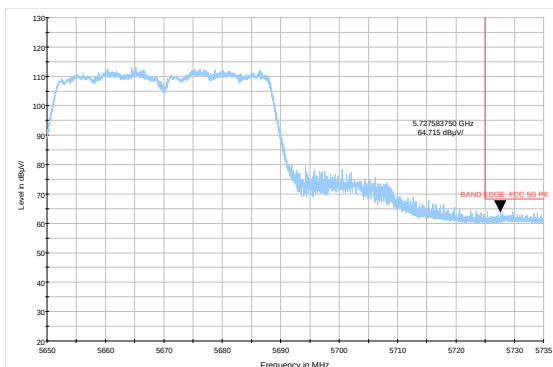
802.11n HT40-Channel 102: Average



802.11ac VHT80- Channel 122: Average



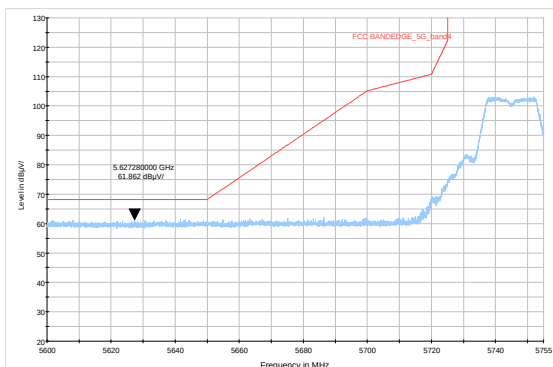
802.11n HT40-Channel 134: Peak



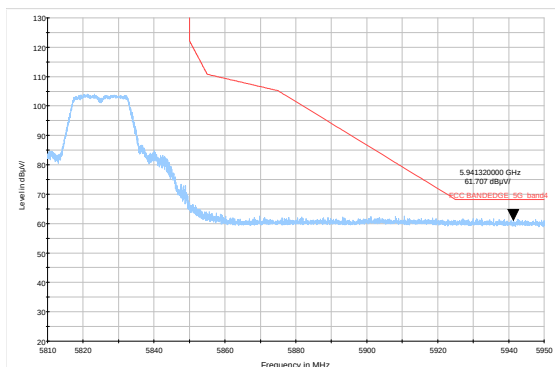


## U-NII-3

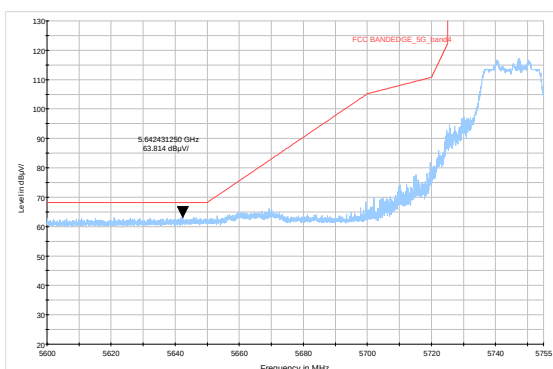
802.11a-Channel 149: Peak



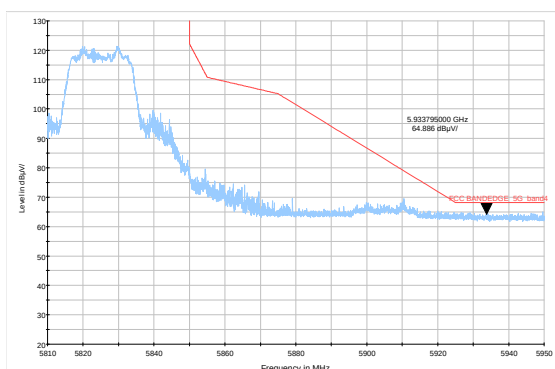
802.11a-Channel 165: Peak



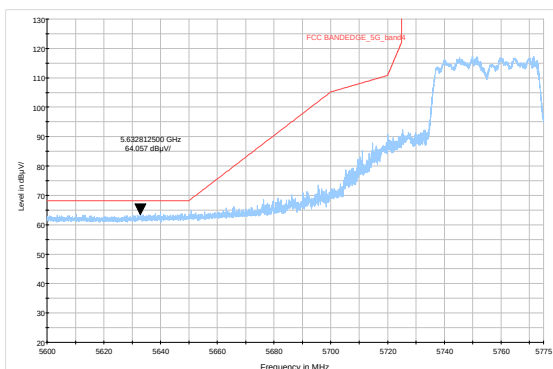
802.11n HT20-Channel 149: Peak



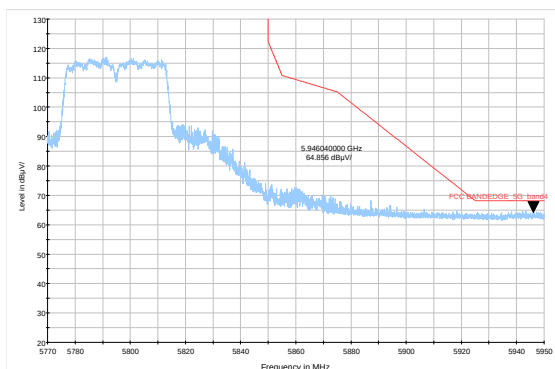
802.11n HT20-Channel 165: Peak



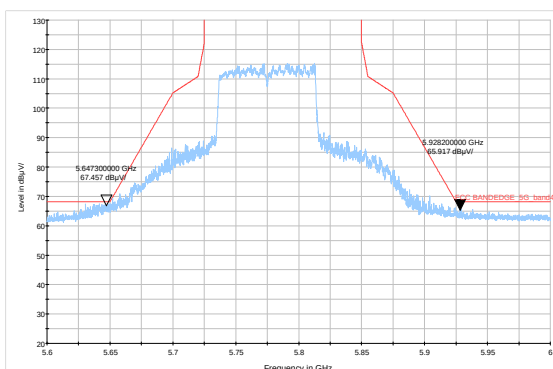
802.11n HT40-Channel 151: Peak



802.11n HT40-Channel 159: Peak



802.11ac VHT80- Channel 155: Peak







## Result of RE

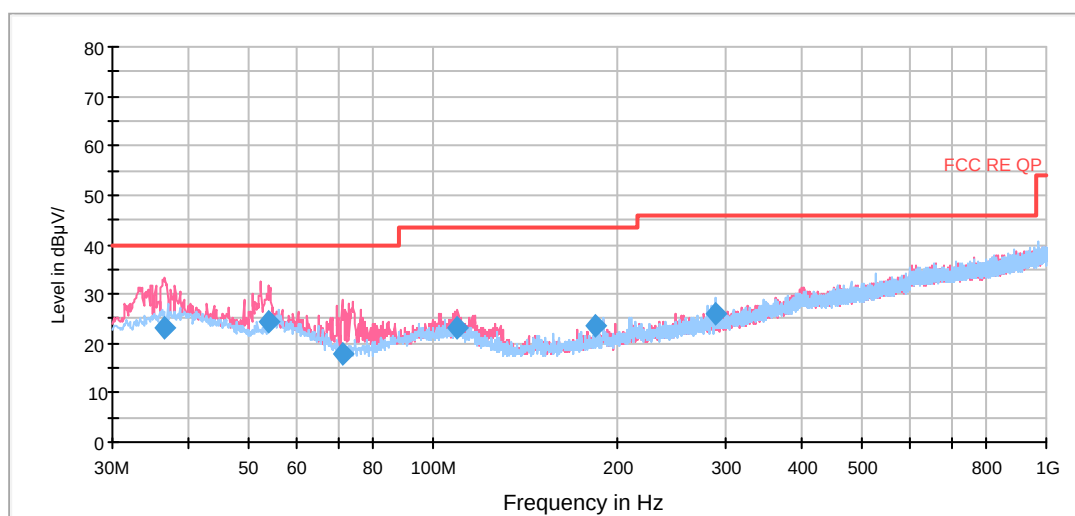
### Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 26.5GHz-40GHz are more than 20dB below the limit are not reported.

After the pretest, MIMO was selected as the worst antenna.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11n HT40, Channel 62 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

### Continuous TX mode:



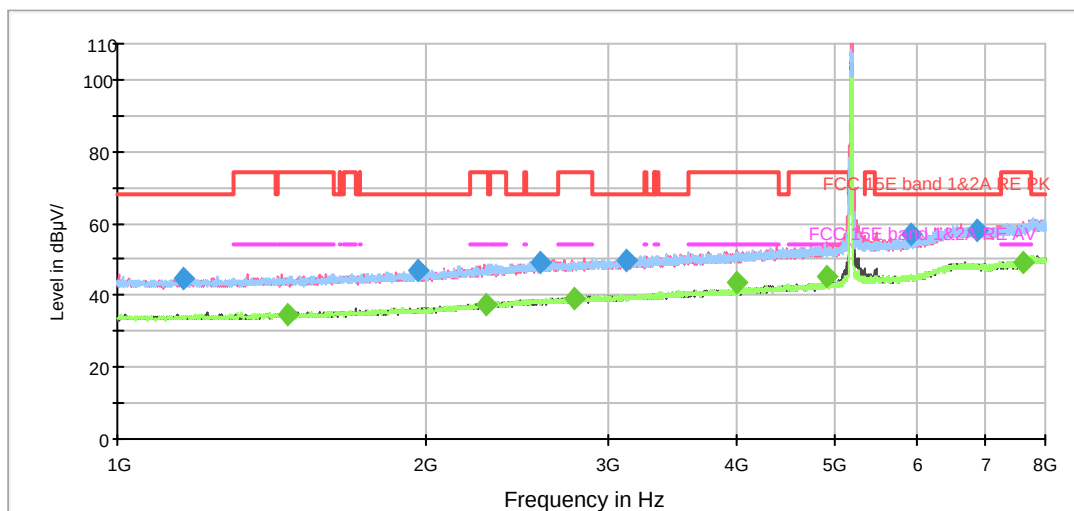
Radiates Emission from 30MHz to 1GHz

| Frequency (MHz) | Quasi-Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 36.547500       | 23.0                | 100.0       | V            | 85.0          | 16.6                | 17.0        | 40.0           |
| 54.007500       | 24.2                | 100.0       | V            | 74.0          | 13.8                | 15.8        | 40.0           |
| 71.103750       | 17.9                | 100.0       | V            | 148.0         | 9.8                 | 22.1        | 40.0           |
| 109.782500      | 23.0                | 100.0       | V            | 202.0         | 13.5                | 20.5        | 43.5           |
| 184.230000      | 23.6                | 175.0       | H            | 86.0          | 11.2                | 19.9        | 43.5           |
| 288.020000      | 26.1                | 114.0       | H            | 0.0           | 15.0                | 19.9        | 46.0           |

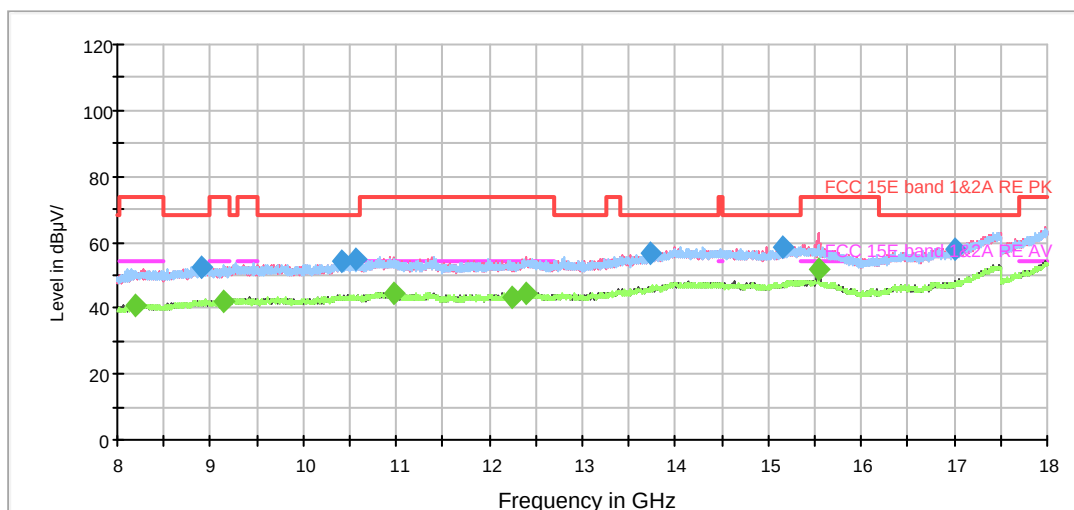
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

2. Margin = Limit – Quasi-Peak

## 802.11a CH36



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz



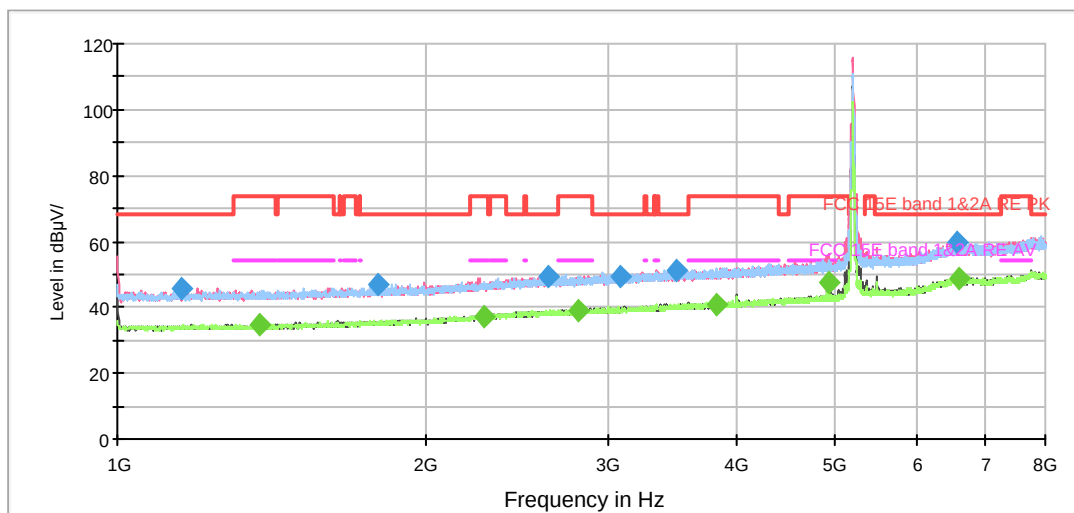
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1161.000000     | 44.7          | 100.0       | V            | 216.0         | -1.3                | 23.5        | 68.2           |
| 1965.125000     | 46.7          | 100.0       | V            | 205.0         | 1.0                 | 21.5        | 68.2           |
| 2582.875000     | 49.3          | 300.0       | H            | 131.0         | 3.8                 | 18.9        | 68.2           |
| 3128.875000     | 49.7          | 100.0       | V            | 0.0           | 5.1                 | 18.5        | 68.2           |
| 5931.500000     | 56.9          | 100.0       | V            | 0.0           | 12.0                | 11.3        | 68.2           |
| 6875.625000     | 58.1          | 300.0       | V            | 354.0         | 15.0                | 10.1        | 68.2           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1462.000000     | 34.6             | 100.0       | H            | 165.0         | -0.5                | 19.4        | 54.0           |
| 2285.375000     | 37.4             | 300.0       | V            | 313.0         | 2.7                 | 16.6        | 54.0           |
| 2784.125000     | 39.2             | 300.0       | V            | 341.0         | 4.2                 | 14.8        | 54.0           |
| 3999.500000     | 43.6             | 100.0       | V            | 295.0         | 7.3                 | 10.4        | 54.0           |
| 4899.000000     | 45.0             | 200.0       | V            | 0.0           | 9.6                 | 9.0         | 54.0           |
| 7602.750000     | 49.2             | 300.0       | V            | 358.0         | 16.5                | 4.8         | 54.0           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

## 802.11a CH40



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.

Radiates Emission from 8GHz to 18GHz



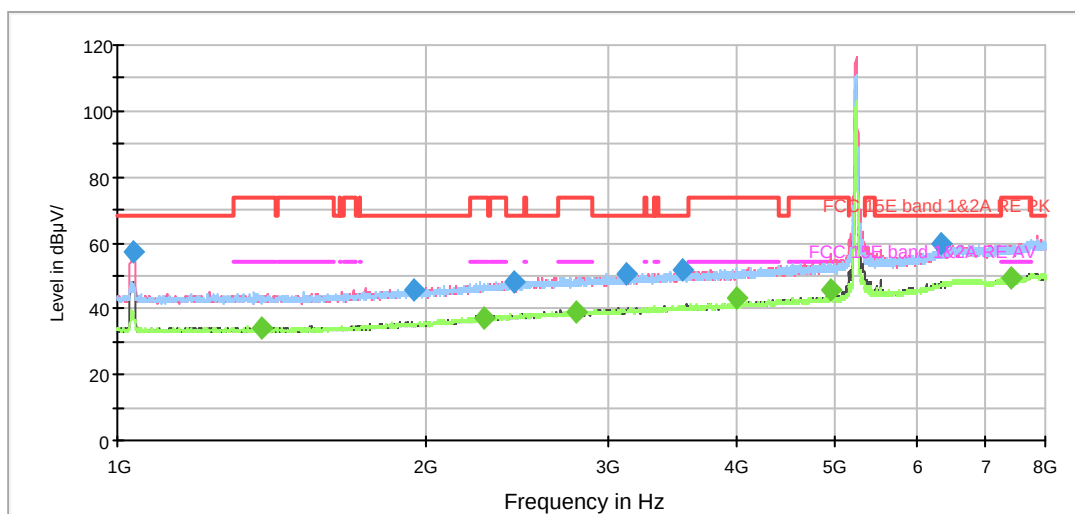
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1154.000000     | 45.8          | 200.0       | V            | 14.0          | -1.3                | 22.4        | 68.2           |
| 1794.500000     | 47.0          | 200.0       | V            | 0.0           | 0.6                 | 21.2        | 68.2           |
| 2627.500000     | 49.3          | 100.0       | V            | 210.0         | 3.9                 | 18.9        | 68.2           |
| 3081.625000     | 49.4          | 200.0       | V            | 6.0           | 5.0                 | 18.8        | 68.2           |
| 3503.375000     | 51.0          | 100.0       | H            | 152.0         | 6.1                 | 17.2        | 68.2           |
| 6559.750000     | 59.8          | 200.0       | V            | 78.0          | 15.0                | 8.4         | 68.2           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

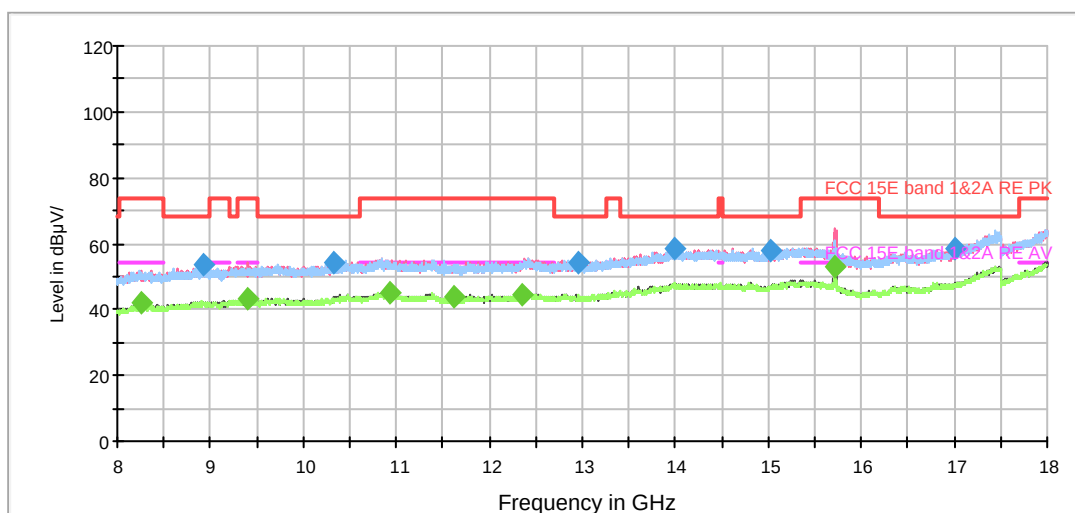
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1377.125000     | 34.8             | 200.0       | H            | 350.0         | -0.7                | 19.2        | 54.0           |
| 2277.500000     | 37.3             | 100.0       | V            | 285.0         | 2.7                 | 16.7        | 54.0           |
| 2804.250000     | 39.0             | 100.0       | V            | 0.0           | 4.3                 | 15.0        | 54.0           |
| 3828.000000     | 41.1             | 100.0       | V            | 0.0           | 6.8                 | 12.9        | 54.0           |
| 4917.375000     | 47.4             | 200.0       | V            | 0.0           | 9.5                 | 6.6         | 54.0           |
| 6592.125000     | 48.9             | 100.0       | V            | 242.0         | 15.0                | 5.1         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11a CH48



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz



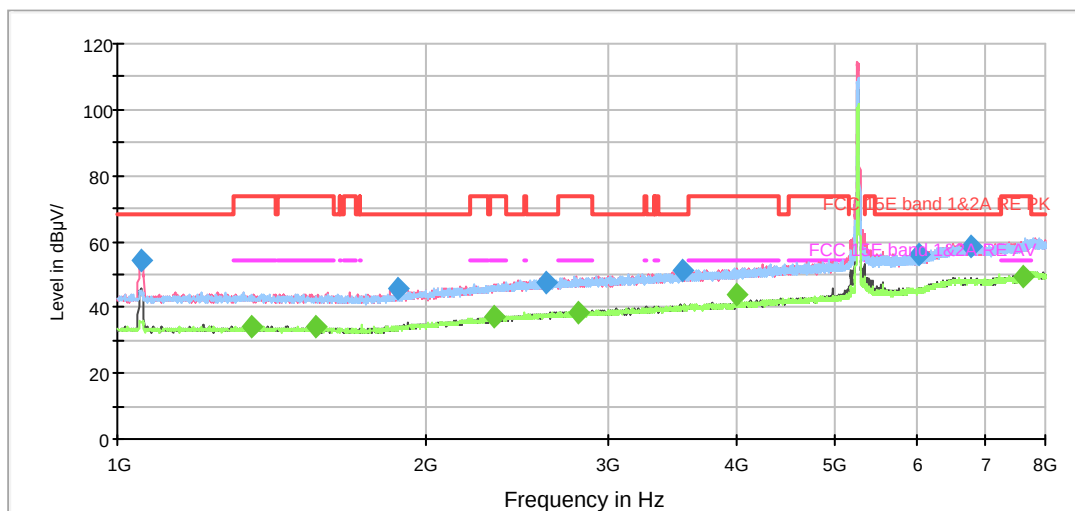
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1035.000000     | 57.3          | 200.0       | V            | 126.0         | -1.7                | 10.9        | 68.2           |
| 1945.875000     | 45.7          | 100.0       | H            | 56.0          | 1.0                 | 22.5        | 68.2           |
| 2431.500000     | 48.3          | 200.0       | V            | 191.0         | 3.3                 | 19.9        | 68.2           |
| 3122.750000     | 50.8          | 100.0       | H            | 129.0         | 5.0                 | 17.4        | 68.2           |
| 3542.750000     | 51.5          | 200.0       | V            | 104.0         | 6.3                 | 16.7        | 68.2           |
| 6338.375000     | 59.4          | 200.0       | H            | 359.0         | 14.2                | 8.8         | 68.2           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

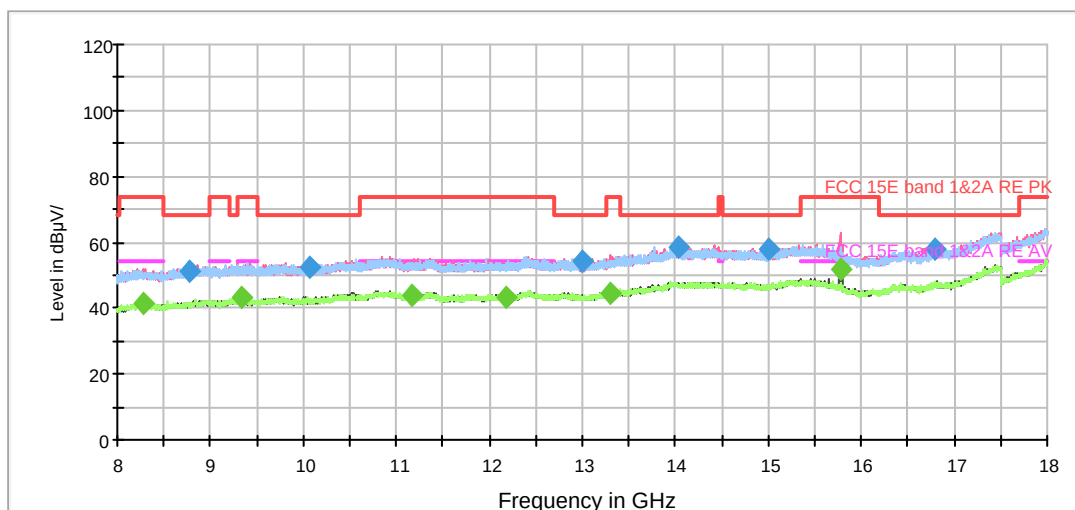
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1381.500000     | 34.3             | 100.0       | V            | 302.0         | -0.7                | 19.7        | 54.0           |
| 2279.250000     | 37.4             | 200.0       | V            | 72.0          | 2.7                 | 16.6        | 54.0           |
| 2799.875000     | 38.7             | 200.0       | V            | 62.0          | 4.3                 | 15.3        | 54.0           |
| 3999.500000     | 43.0             | 200.0       | H            | 302.0         | 7.3                 | 11.0        | 54.0           |
| 4951.500000     | 45.8             | 200.0       | V            | 115.0         | 9.5                 | 8.2         | 54.0           |
| 7400.625000     | 49.5             | 100.0       | H            | 99.0          | 14.3                | 4.5         | 54.0           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

## 802.11a CH52



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz





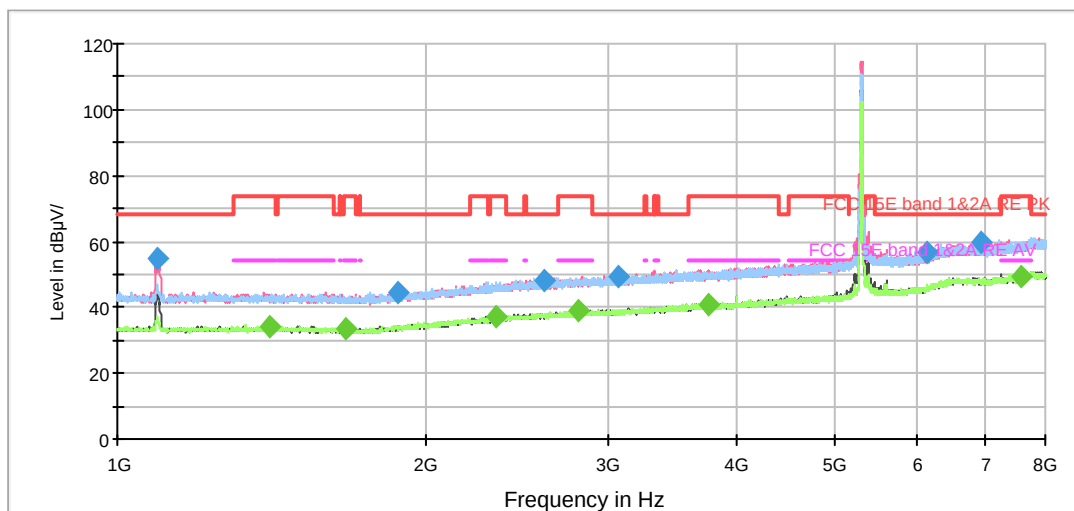
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1056.000000     | 54.2          | 200.0       | V            | 125.0         | -1.6                | 14.0        | 68.2           |
| 1875.875000     | 45.4          | 100.0       | V            | 0.0           | 0.8                 | 22.8        | 68.2           |
| 2614.375000     | 47.5          | 100.0       | V            | 132.0         | 3.8                 | 20.7        | 68.2           |
| 3553.250000     | 51.0          | 200.0       | H            | 341.0         | 6.3                 | 17.2        | 68.2           |
| 6034.750000     | 55.9          | 200.0       | H            | 125.0         | 12.3                | 12.3        | 68.2           |
| 6783.750000     | 58.5          | 200.0       | H            | 113.0         | 15.1                | 9.7         | 68.2           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

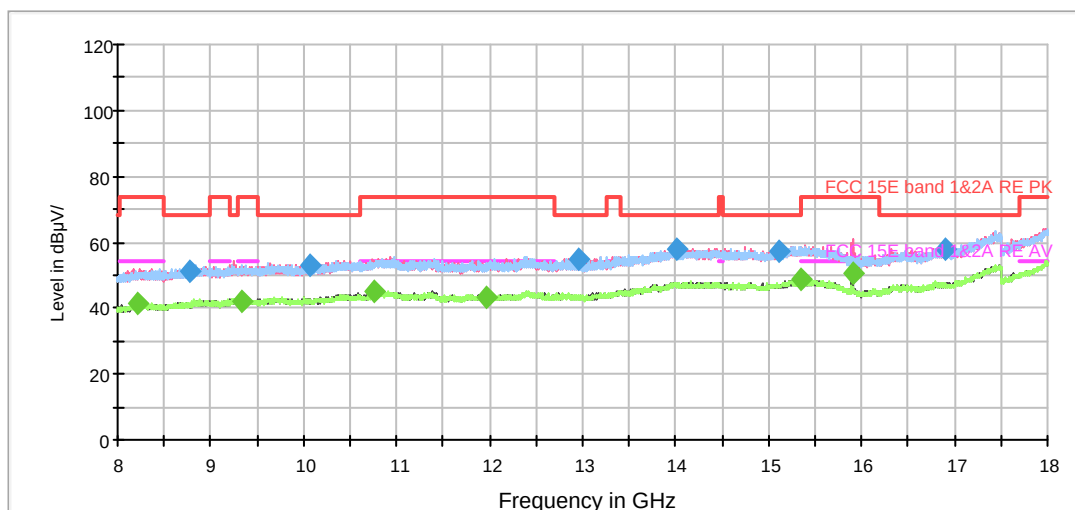
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1351.750000     | 33.9             | 100.0       | V            | 221.0         | -0.9                | 20.1        | 54.0           |
| 1561.750000     | 33.9             | 200.0       | H            | 359.0         | -0.2                | 20.1        | 54.0           |
| 2322.125000     | 36.9             | 100.0       | H            | 22.0          | 2.8                 | 17.1        | 54.0           |
| 2807.750000     | 38.5             | 100.0       | H            | 40.0          | 4.3                 | 15.5        | 54.0           |
| 3999.500000     | 43.7             | 100.0       | V            | 275.0         | 7.3                 | 10.3        | 54.0           |
| 7604.500000     | 49.3             | 100.0       | V            | 210.0         | 16.5                | 4.7         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11a CH60



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



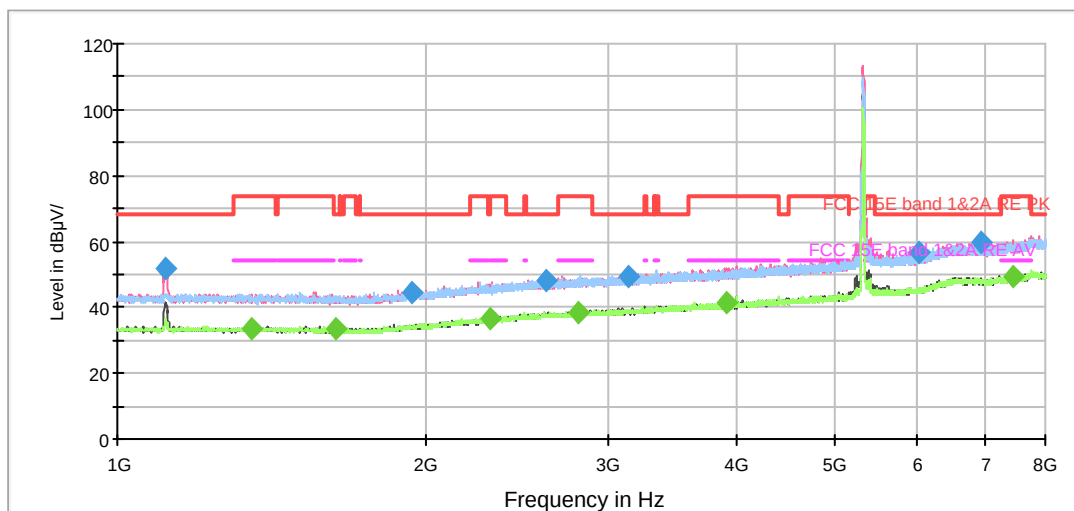
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1095.375000     | 54.5          | 200.0       | V            | 122.0         | -1.4                | 13.7        | 68.2           |
| 1878.500000     | 44.6          | 100.0       | V            | 358.0         | 0.8                 | 23.6        | 68.2           |
| 2601.250000     | 48.4          | 100.0       | V            | 244.0         | 3.8                 | 19.8        | 68.2           |
| 3072.000000     | 49.3          | 200.0       | V            | 177.0         | 5.0                 | 18.9        | 68.2           |
| 6136.250000     | 56.8          | 100.0       | H            | 100.0         | 12.7                | 11.4        | 68.2           |
| 6915.875000     | 59.4          | 200.0       | H            | 3.0           | 15.0                | 8.8         | 68.2           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

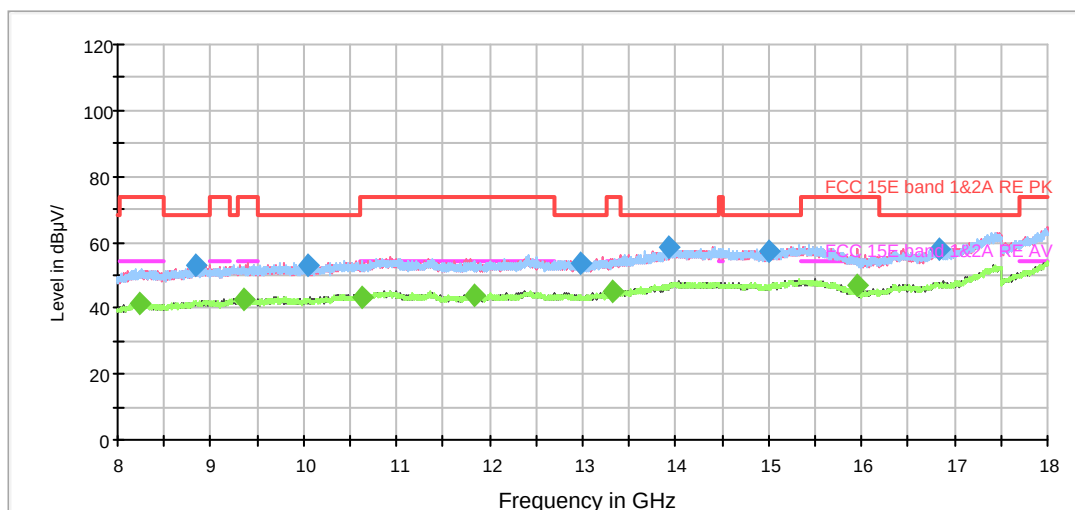
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1406.000000     | 33.8             | 100.0       | V            | 0.0           | -0.7                | 20.2        | 54.0           |
| 1669.375000     | 33.4             | 100.0       | H            | 12.0          | 0.3                 | 20.6        | 54.0           |
| 2339.625000     | 36.9             | 200.0       | V            | 259.0         | 3.0                 | 17.1        | 54.0           |
| 2806.875000     | 38.9             | 200.0       | V            | 1.0           | 4.3                 | 15.1        | 54.0           |
| 3759.750000     | 40.9             | 100.0       | H            | 169.0         | 6.7                 | 13.1        | 54.0           |
| 7572.125000     | 49.2             | 200.0       | H            | 190.0         | 16.3                | 4.8         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11a CH64



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz





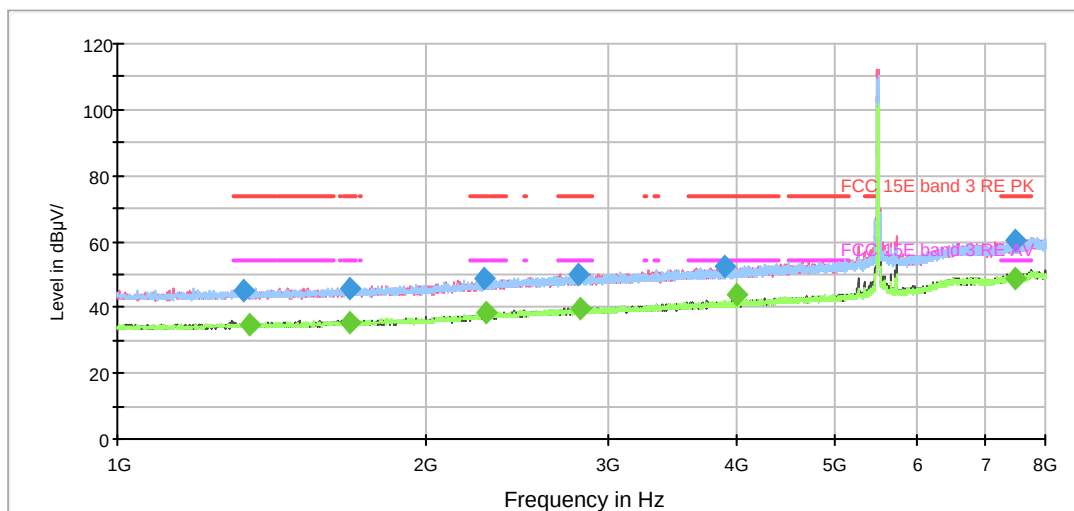
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1113.750000     | 51.6          | 200.0       | V            | 126.0         | -1.4                | 16.6        | 68.2           |
| 1931.000000     | 44.3          | 100.0       | H            | 4.0           | 1.0                 | 23.9        | 68.2           |
| 2612.625000     | 48.4          | 100.0       | V            | 351.0         | 3.8                 | 19.8        | 68.2           |
| 3136.750000     | 49.2          | 100.0       | V            | 356.0         | 5.1                 | 19.0        | 68.2           |
| 6016.375000     | 56.9          | 200.0       | H            | 122.0         | 12.2                | 11.3        | 68.2           |
| 6932.500000     | 59.8          | 100.0       | V            | 194.0         | 14.9                | 8.4         | 68.2           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

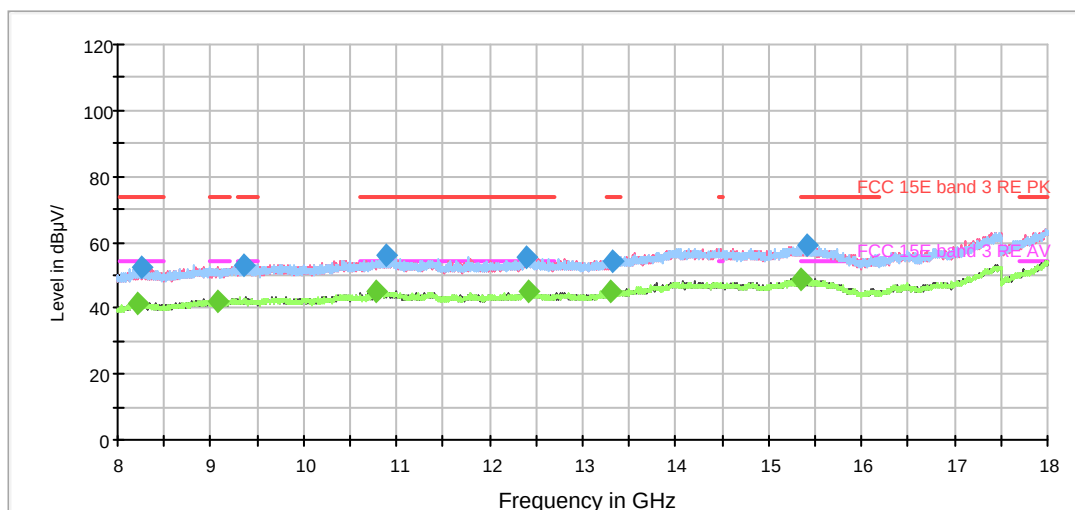
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1350.875000     | 33.5             | 200.0       | H            | 290.0         | -0.9                | 20.5        | 54.0           |
| 1630.875000     | 33.3             | 200.0       | V            | 336.0         | 0.1                 | 21.0        | 54.0           |
| 2304.625000     | 36.6             | 100.0       | V            | 171.0         | 2.7                 | 17.4        | 54.0           |
| 2813.000000     | 38.2             | 100.0       | V            | 358.0         | 4.3                 | 15.8        | 54.0           |
| 3923.375000     | 41.3             | 200.0       | V            | 115.0         | 7.1                 | 12.7        | 54.0           |
| 7451.375000     | 49.2             | 100.0       | V            | 194.0         | 16.0                | 4.8         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11a CH100



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



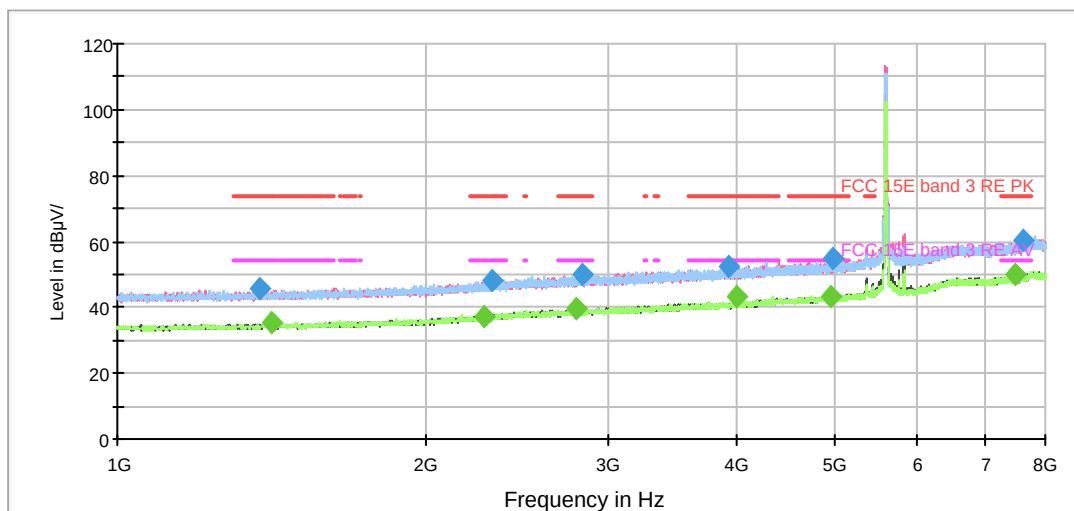
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1329.000000     | 44.9          | 200.0       | V            | 0.0           | -0.9                | 29.1        | 74.0           |
| 1683.375000     | 45.8          | 200.0       | V            | 36.0          | 0.3                 | 28.2        | 74.0           |
| 2279.250000     | 48.6          | 100.0       | V            | 273.0         | 2.7                 | 25.4        | 74.0           |
| 2810.375000     | 50.0          | 100.0       | H            | 154.0         | 4.3                 | 24.0        | 74.0           |
| 3892.750000     | 52.4          | 200.0       | V            | 0.0           | 7.1                 | 21.6        | 74.0           |
| 7482.875000     | 60.3          | 100.0       | V            | 336.0         | 16.0                | 13.7        | 74.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

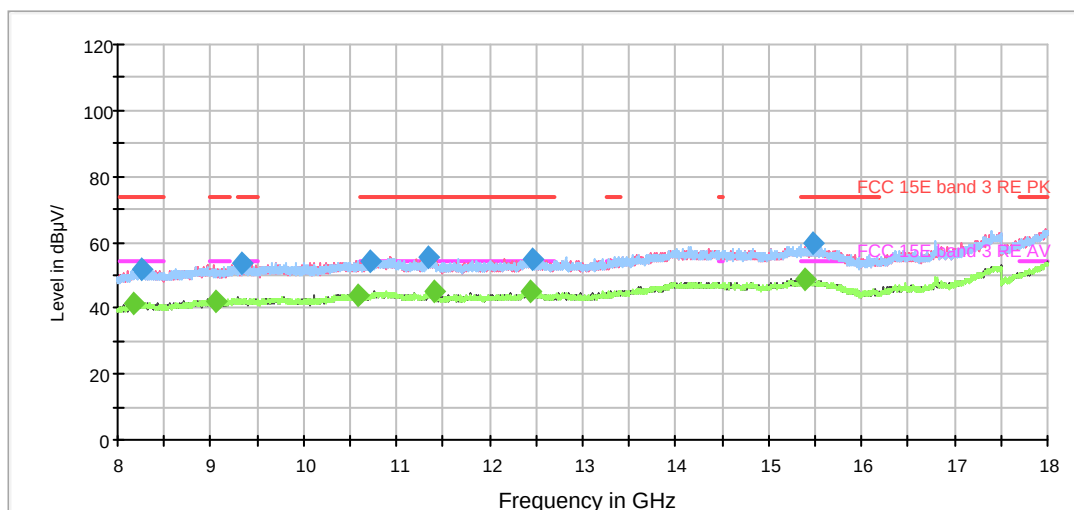
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1346.500000     | 34.7             | 100.0       | H            | 1.0           | -0.9                | 19.3        | 54.0           |
| 1684.250000     | 35.5             | 200.0       | V            | 19.0          | 0.3                 | 18.5        | 54.0           |
| 2288.000000     | 38.3             | 200.0       | V            | 0.0           | 2.7                 | 15.7        | 54.0           |
| 2827.000000     | 39.6             | 100.0       | H            | 4.0           | 4.4                 | 14.4        | 54.0           |
| 3999.500000     | 43.7             | 200.0       | V            | 141.0         | 7.3                 | 10.3        | 54.0           |
| 7488.125000     | 48.8             | 200.0       | V            | 93.0          | 16.0                | 5.2         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11a CH120



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1372.750000     | 46.0          | 200.0       | H            | 354.0         | -0.8                | 28.0        | 74.0           |
| 2312.500000     | 48.2          | 200.0       | V            | 49.0          | 2.8                 | 25.8        | 74.0           |
| 2839.250000     | 49.7          | 100.0       | H            | 255.0         | 4.4                 | 24.3        | 74.0           |
| 3933.000000     | 52.2          | 100.0       | H            | 4.0           | 7.1                 | 21.8        | 74.0           |
| 4974.250000     | 54.6          | 200.0       | H            | 295.0         | 9.5                 | 19.4        | 74.0           |
| 7611.500000     | 60.2          | 200.0       | V            | 103.0         | 16.5                | 13.8        | 74.0           |

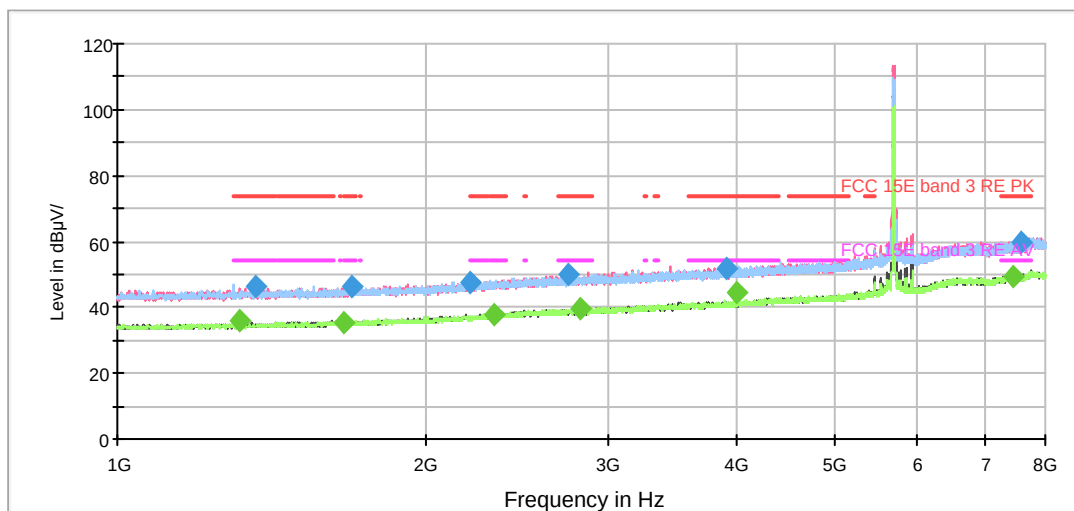
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1410.375000     | 35.1             | 100.0       | H            | 0.0           | -0.7                | 18.9        | 54.0           |
| 2274.875000     | 37.3             | 200.0       | V            | 177.0         | 2.7                 | 16.7        | 54.0           |
| 2798.125000     | 39.3             | 100.0       | H            | 122.0         | 4.3                 | 14.7        | 54.0           |
| 3999.500000     | 43.1             | 100.0       | H            | 1.0           | 7.3                 | 10.9        | 54.0           |
| 4939.250000     | 43.3             | 200.0       | V            | 1.0           | 9.5                 | 10.7        | 54.0           |
| 7467.125000     | 49.8             | 200.0       | V            | 6.0           | 16.0                | 4.2         | 54.0           |

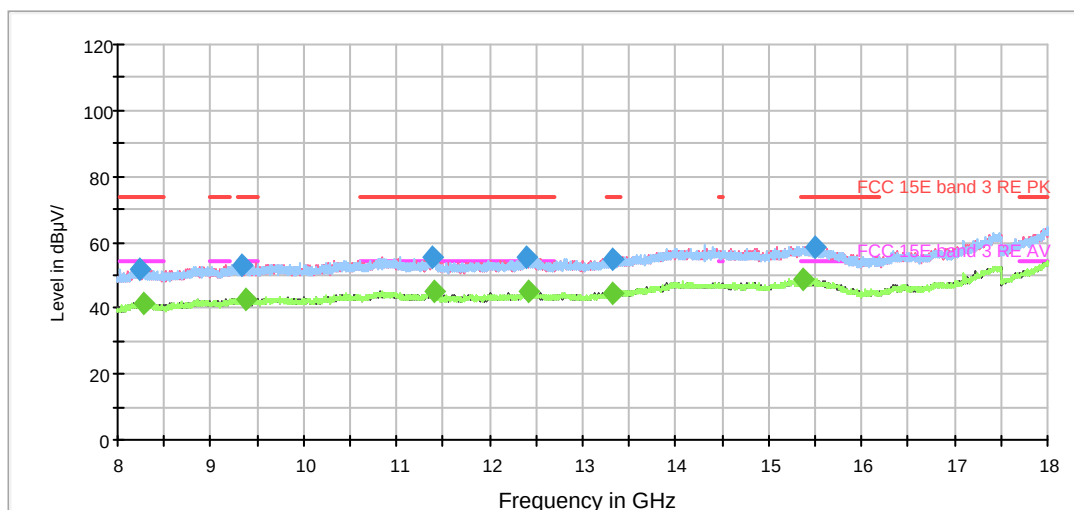
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



# 802.11a CH140



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



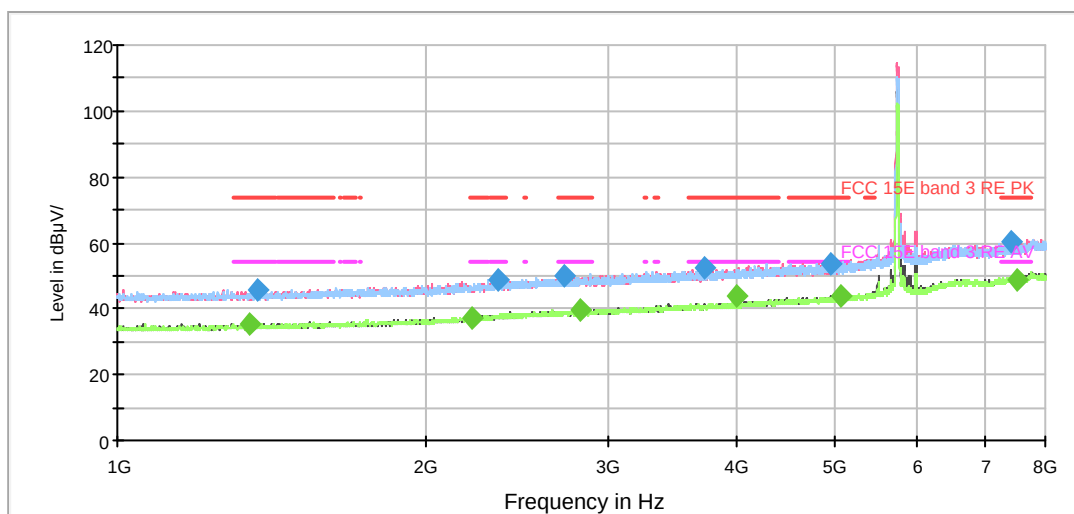
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1361.375000     | 46.2          | 100.0       | V            | 0.0           | -0.8                | 27.8        | 74.0           |
| 1693.875000     | 46.0          | 200.0       | V            | 0.0           | 0.4                 | 28.0        | 74.0           |
| 2208.375000     | 47.5          | 100.0       | V            | 266.0         | 2.3                 | 26.5        | 74.0           |
| 2741.250000     | 50.1          | 200.0       | H            | 358.0         | 4.1                 | 23.9        | 74.0           |
| 3912.875000     | 52.0          | 200.0       | V            | 300.0         | 7.1                 | 22.0        | 74.0           |
| 7573.000000     | 59.5          | 100.0       | V            | 0.0           | 16.3                | 14.5        | 74.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

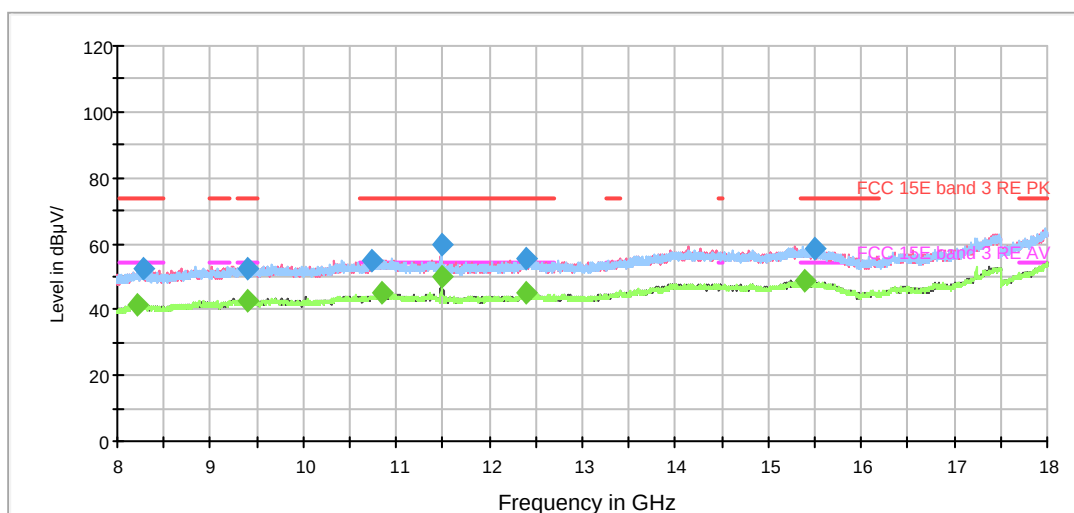
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1313.250000     | 35.7             | 200.0       | H            | 345.0         | -0.9                | 18.3        | 54.0           |
| 1663.250000     | 35.6             | 100.0       | V            | 251.0         | 0.2                 | 18.4        | 54.0           |
| 2323.875000     | 37.8             | 200.0       | V            | 266.0         | 2.9                 | 16.2        | 54.0           |
| 2820.000000     | 39.7             | 100.0       | V            | 221.0         | 4.4                 | 14.3        | 54.0           |
| 3999.500000     | 44.3             | 200.0       | V            | 92.0          | 7.3                 | 9.7         | 54.0           |
| 7440.875000     | 49.2             | 200.0       | H            | 345.0         | 15.9                | 4.8         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH149



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz

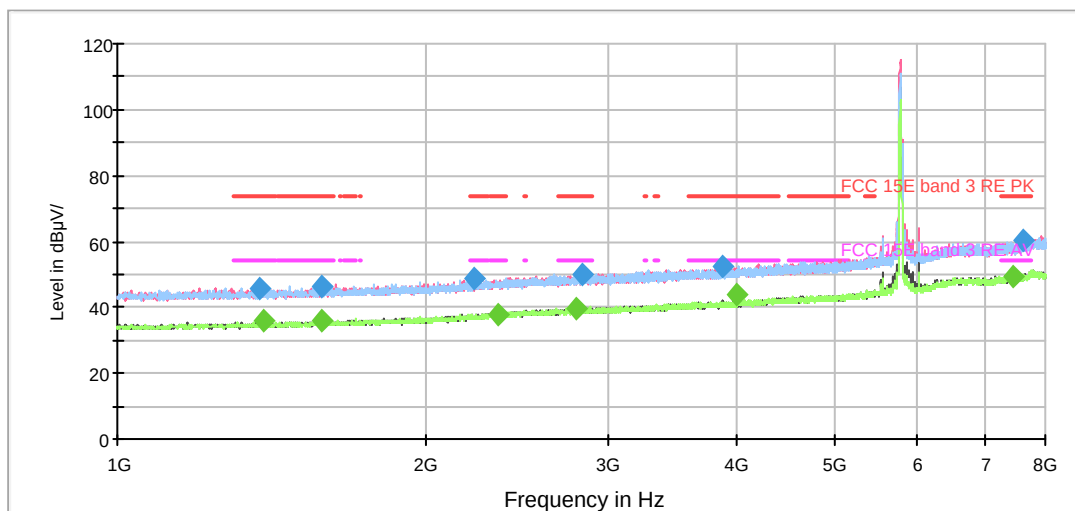
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1368.375000     | 45.4          | 100.0       | H            | 186.0         | -0.8                | 28.6        | 74.0           |
| 2350.125000     | 48.8          | 100.0       | V            | 323.0         | 3.0                 | 25.2        | 74.0           |
| 2722.000000     | 50.0          | 100.0       | H            | 0.0           | 4.1                 | 24.0        | 74.0           |
| 3729.125000     | 52.4          | 200.0       | V            | 0.0           | 6.6                 | 21.6        | 74.0           |
| 4952.375000     | 53.4          | 200.0       | H            | 222.0         | 9.5                 | 20.6        | 74.0           |
| 7424.250000     | 60.3          | 200.0       | V            | 2.0           | 15.9                | 13.7        | 74.0           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

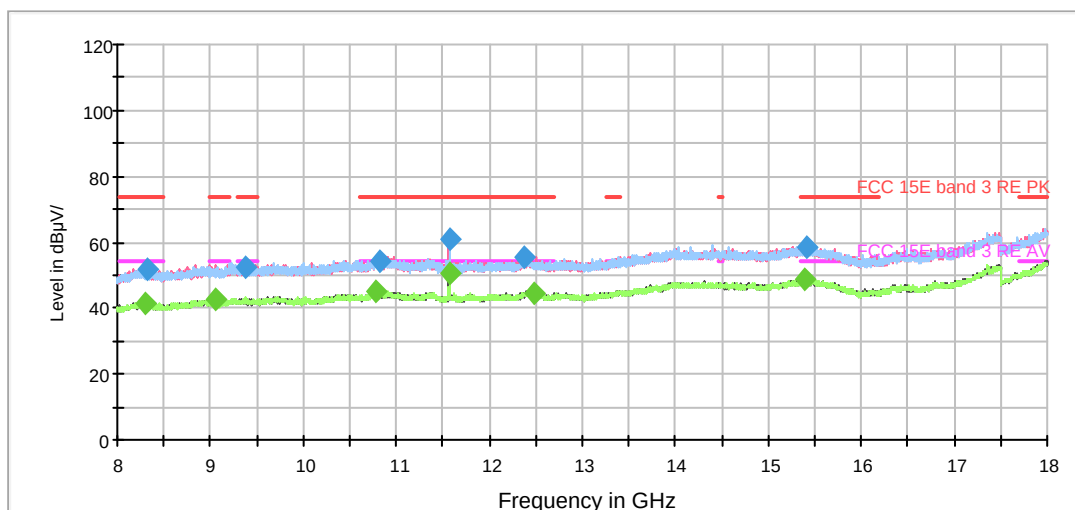
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1342.125000     | 35.4             | 200.0       | H            | 312.0         | -0.9                | 18.6        | 54.0           |
| 2211.875000     | 37.1             | 100.0       | V            | 284.0         | 2.3                 | 16.9        | 54.0           |
| 2825.250000     | 39.6             | 100.0       | H            | 57.0          | 4.4                 | 14.4        | 54.0           |
| 3999.500000     | 43.9             | 100.0       | V            | 159.0         | 7.3                 | 10.1        | 54.0           |
| 5064.375000     | 43.6             | 100.0       | V            | 0.0           | 9.8                 | 10.4        | 54.0           |
| 7513.500000     | 48.9             | 100.0       | V            | 0.0           | 16.1                | 5.1         | 54.0           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

## 802.11a CH157



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz





| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1378.000000     | 45.8          | 100.0       | V            | 288.0         | -0.7                | 28.2        | 74.0           |
| 1579.250000     | 46.2          | 100.0       | V            | 42.0          | -0.1                | 27.8        | 74.0           |
| 2225.875000     | 48.9          | 100.0       | H            | 24.0          | 2.3                 | 25.1        | 74.0           |
| 2835.750000     | 49.8          | 200.0       | H            | 327.0         | 4.4                 | 24.2        | 74.0           |
| 3886.625000     | 52.6          | 100.0       | V            | 348.0         | 7.1                 | 21.4        | 74.0           |
| 7619.375000     | 60.5          | 100.0       | V            | 358.0         | 16.5                | 13.5        | 74.0           |

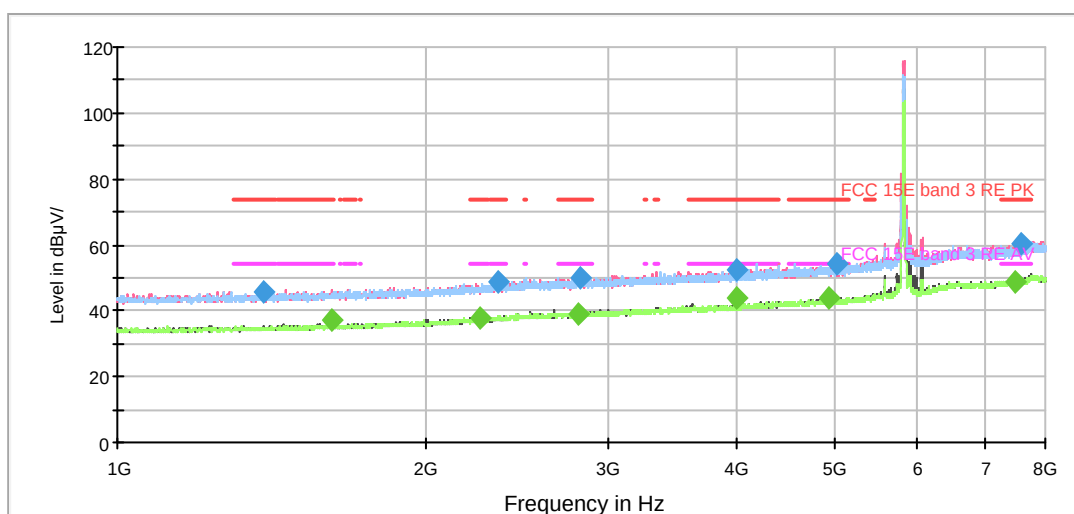
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1390.250000     | 35.7             | 200.0       | V            | 168.0         | -0.7                | 18.3        | 54.0           |
| 1581.000000     | 36.1             | 200.0       | V            | 264.0         | -0.1                | 17.9        | 54.0           |
| 2343.125000     | 37.9             | 100.0       | V            | 342.0         | 3.0                 | 16.1        | 54.0           |
| 2802.500000     | 39.5             | 200.0       | V            | 0.0           | 4.3                 | 14.5        | 54.0           |
| 3999.500000     | 43.6             | 200.0       | V            | 90.0          | 7.3                 | 10.4        | 54.0           |
| 7429.500000     | 49.3             | 200.0       | V            | 47.0          | 15.9                | 4.7         | 54.0           |

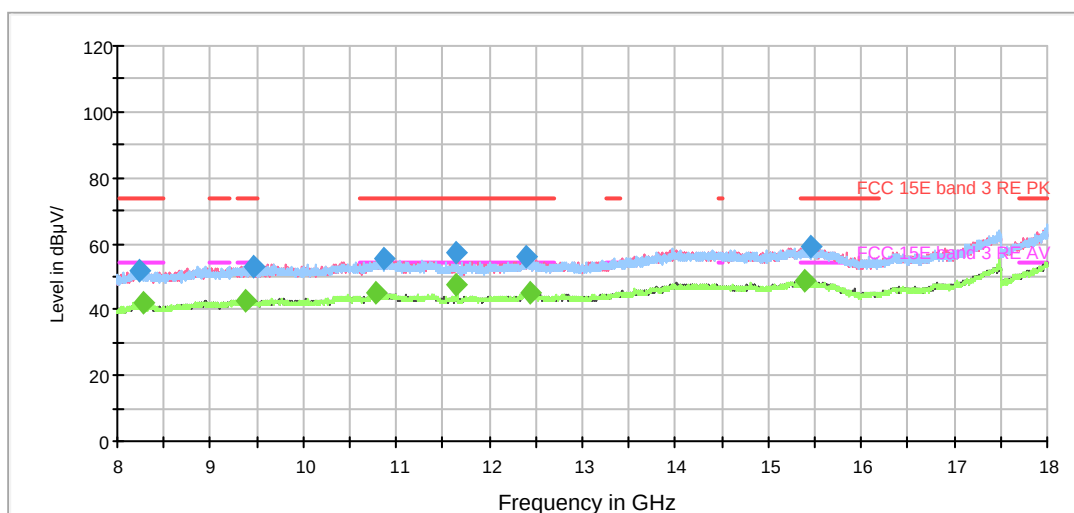
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**



## 802.11a CH165



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz



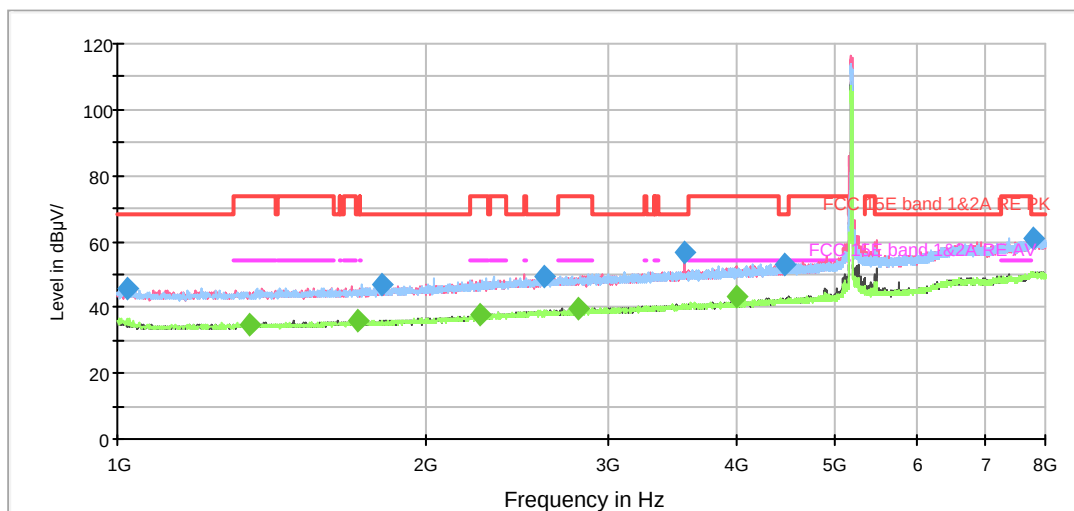
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1385.875000     | 46.0          | 200.0       | V            | 248.0         | -0.7                | 28.0        | 74.0           |
| 2342.250000     | 48.9          | 100.0       | H            | 33.0          | 3.0                 | 25.1        | 74.0           |
| 2824.375000     | 49.7          | 100.0       | H            | 33.0          | 4.4                 | 24.3        | 74.0           |
| 3999.500000     | 52.2          | 100.0       | H            | 7.0           | 7.3                 | 21.8        | 74.0           |
| 5021.500000     | 54.0          | 100.0       | H            | 89.0          | 9.7                 | 20.0        | 74.0           |
| 7576.500000     | 60.1          | 200.0       | V            | 0.0           | 16.4                | 13.9        | 74.0           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

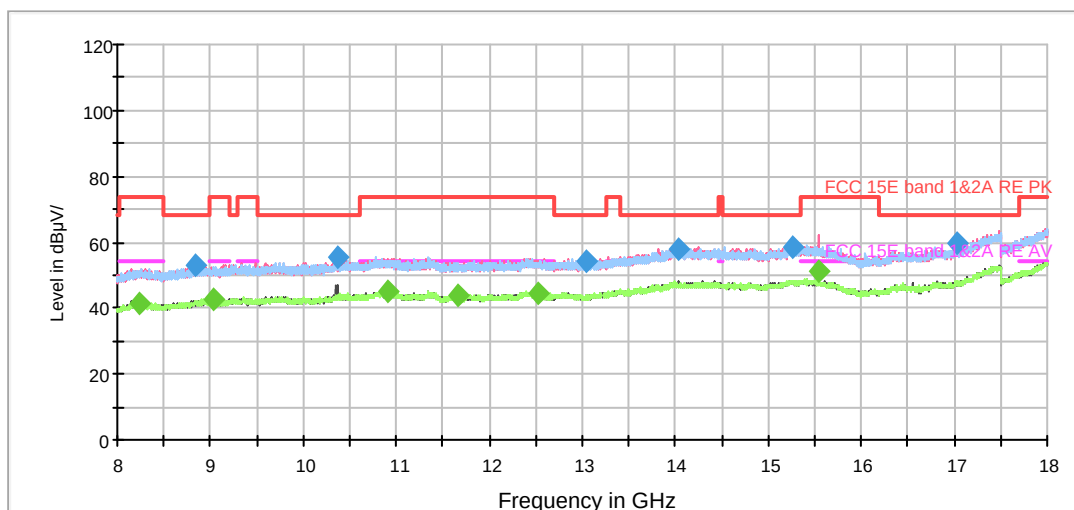
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1620.375000     | 37.3             | 200.0       | V            | 19.0          | 0.1                 | 16.7        | 54.0           |
| 2252.125000     | 37.8             | 100.0       | V            | 354.0         | 2.5                 | 16.2        | 54.0           |
| 2808.625000     | 39.2             | 200.0       | H            | 359.0         | 4.3                 | 14.8        | 54.0           |
| 3999.500000     | 44.1             | 200.0       | V            | 137.0         | 7.3                 | 9.9         | 54.0           |
| 4933.125000     | 43.8             | 100.0       | V            | 0.0           | 9.5                 | 10.2        | 54.0           |
| 7494.250000     | 49.0             | 100.0       | V            | 341.0         | 16.0                | 5.0         | 54.0           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

## 802.11n (HT20) CH36



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1024.500000     | 45.7          | 100.0       | V            | 336.0         | -1.8                | 22.5        | 68.2           |
| 1807.625000     | 46.9          | 200.0       | H            | 300.0         | 0.7                 | 21.3        | 68.2           |
| 2604.750000     | 49.1          | 100.0       | H            | 138.0         | 3.8                 | 19.1        | 68.2           |
| 3557.625000     | 56.6          | 200.0       | V            | 159.0         | 6.3                 | 11.6        | 68.2           |
| 4457.125000     | 52.7          | 200.0       | V            | 40.0          | 8.7                 | 15.5        | 68.2           |
| 7789.125000     | 60.9          | 100.0       | H            | 1.0           | 17.3                | 7.3         | 68.2           |

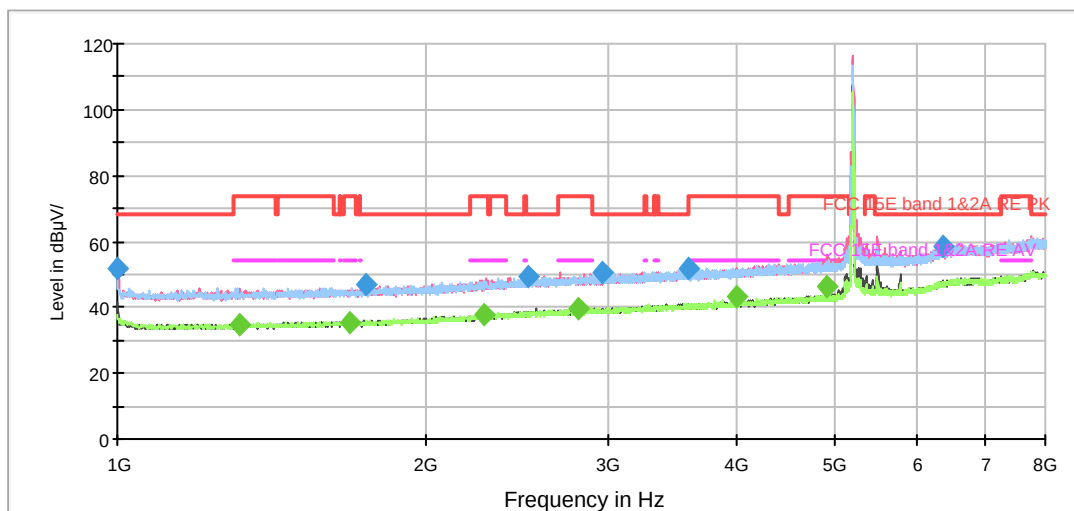
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1347.375000     | 34.8             | 100.0       | V            | 252.0         | -0.9                | 19.2        | 54.0           |
| 1711.375000     | 36.1             | 100.0       | V            | 74.0          | 0.4                 | 17.9        | 54.0           |
| 2258.250000     | 37.5             | 200.0       | V            | 272.0         | 2.5                 | 16.5        | 54.0           |
| 2804.250000     | 39.6             | 100.0       | H            | 309.0         | 4.3                 | 14.4        | 54.0           |
| 3999.500000     | 43.4             | 200.0       | V            | 127.0         | 7.3                 | 10.6        | 54.0           |

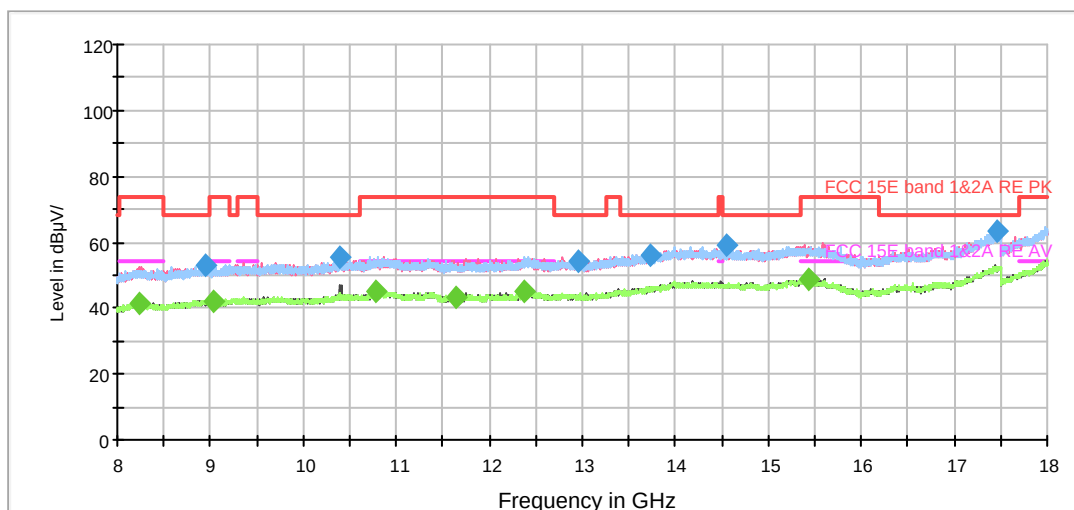
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



## 802.11n (HT20) CH40



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz



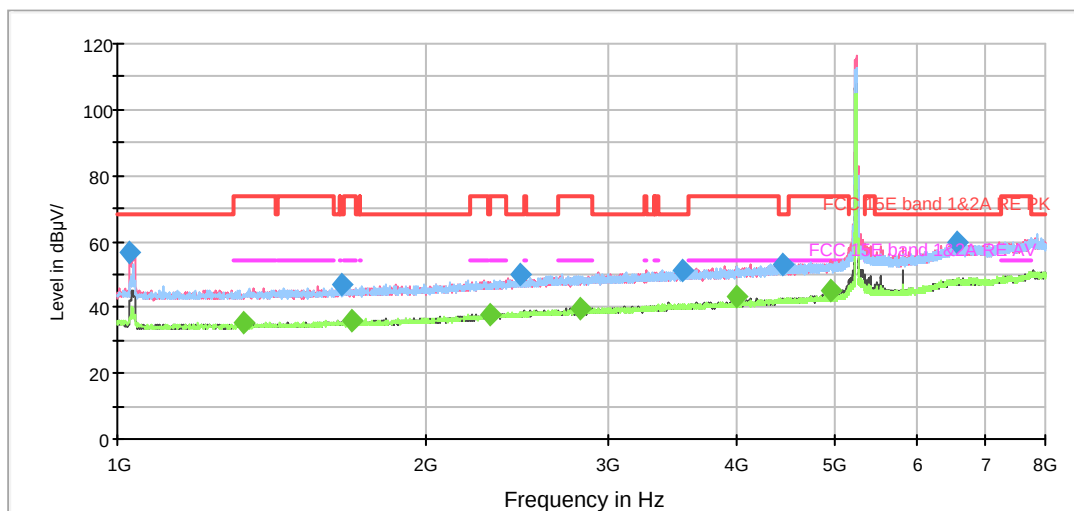
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1000.000000     | 51.6          | 200.0       | V            | 156.0         | -2.0                | 16.6        | 68.2           |
| 1742.875000     | 46.9          | 100.0       | V            | 145.0         | 0.5                 | 21.3        | 68.2           |
| 2508.500000     | 49.2          | 200.0       | H            | 328.0         | 3.6                 | 19.0        | 68.2           |
| 2962.625000     | 50.4          | 100.0       | V            | 317.0         | 4.7                 | 17.8        | 68.2           |
| 3597.875000     | 51.5          | 200.0       | V            | 133.0         | 6.3                 | 16.7        | 68.2           |
| 6348.875000     | 58.6          | 200.0       | V            | 200.0         | 14.2                | 9.6         | 68.2           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

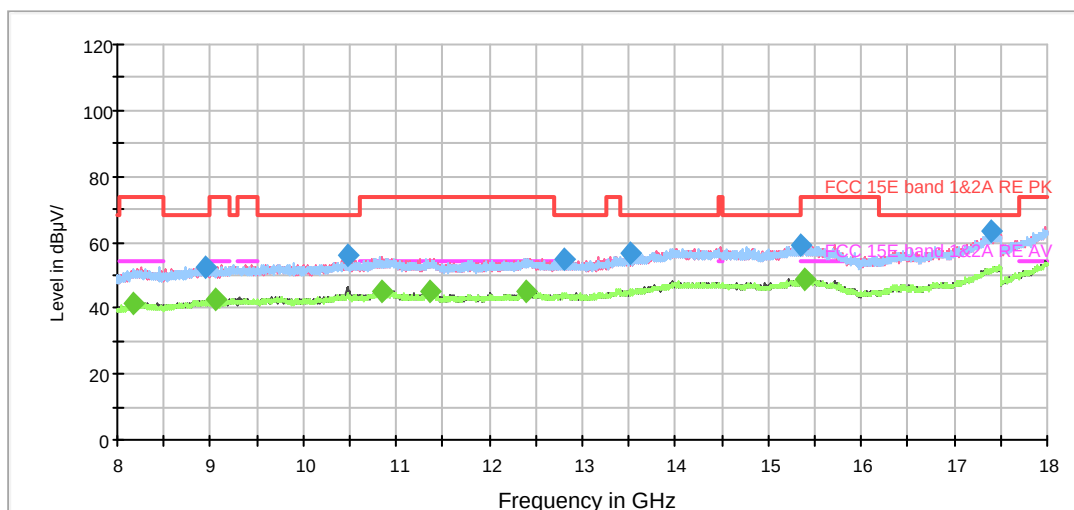
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1314.125000     | 34.7             | 100.0       | H            | 43.0          | -0.9                | 19.3        | 54.0           |
| 1686.875000     | 35.1             | 100.0       | V            | 343.0         | 0.4                 | 18.9        | 54.0           |
| 2273.125000     | 37.9             | 100.0       | H            | 5.0           | 2.7                 | 16.1        | 54.0           |
| 2812.125000     | 39.6             | 100.0       | H            | 322.0         | 4.3                 | 14.4        | 54.0           |
| 3999.500000     | 43.5             | 100.0       | V            | 285.0         | 7.3                 | 10.5        | 54.0           |
| 4913.875000     | 46.6             | 200.0       | V            | 89.0          | 9.5                 | 7.4         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## 802.11n (HT20) CH48



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz



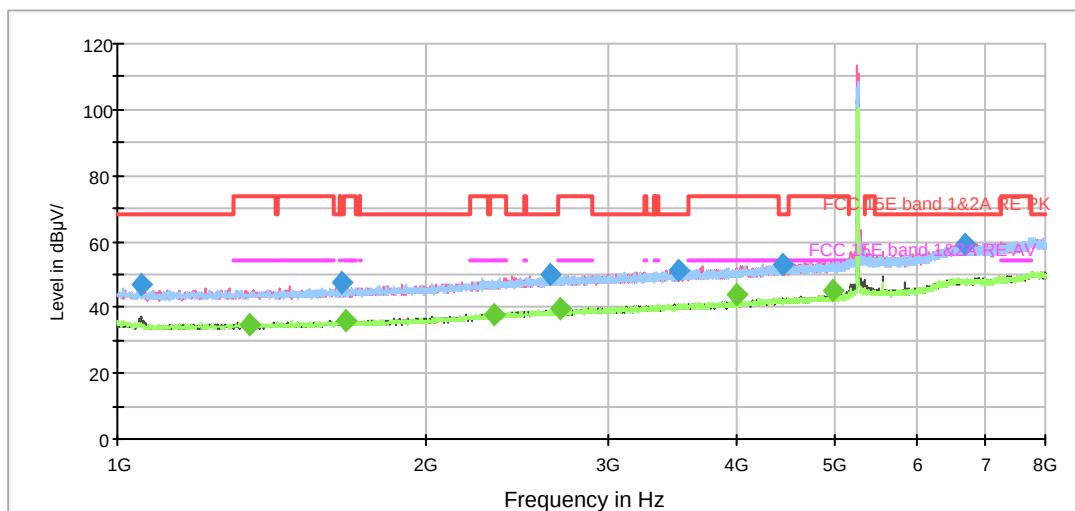
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1028.875000     | 56.5          | 200.0       | V            | 79.0          | -1.8                | 11.7        | 68.2           |
| 1651.875000     | 46.8          | 100.0       | V            | 354.0         | 0.2                 | 21.4        | 68.2           |
| 2464.750000     | 49.9          | 200.0       | V            | 26.0          | 3.4                 | 18.3        | 68.2           |
| 3550.625000     | 51.2          | 100.0       | H            | 73.0          | 6.3                 | 17.0        | 68.2           |
| 4438.750000     | 53.1          | 200.0       | H            | 0.0           | 8.6                 | 15.1        | 68.2           |
| 6557.125000     | 59.6          | 100.0       | V            | 0.0           | 15.0                | 8.6         | 68.2           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

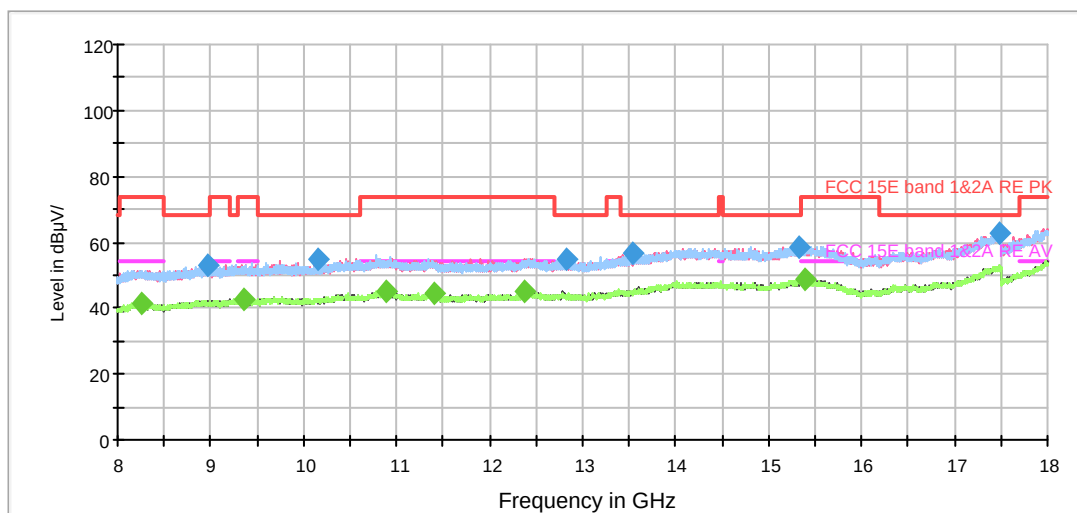
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1329.000000     | 35.1             | 100.0       | H            | 0.0           | -0.9                | 18.9        | 54.0           |
| 1693.875000     | 36.0             | 200.0       | V            | 8.0           | 0.4                 | 18.0        | 54.0           |
| 2308.125000     | 37.8             | 200.0       | V            | 148.0         | 2.8                 | 16.2        | 54.0           |
| 2823.500000     | 39.7             | 100.0       | H            | 7.0           | 4.4                 | 14.3        | 54.0           |
| 3999.500000     | 43.3             | 200.0       | V            | 148.0         | 7.3                 | 10.7        | 54.0           |
| 4948.875000     | 45.3             | 200.0       | V            | 115.0         | 9.5                 | 8.7         | 54.0           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

# 802.11n (HT20) CH52



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz





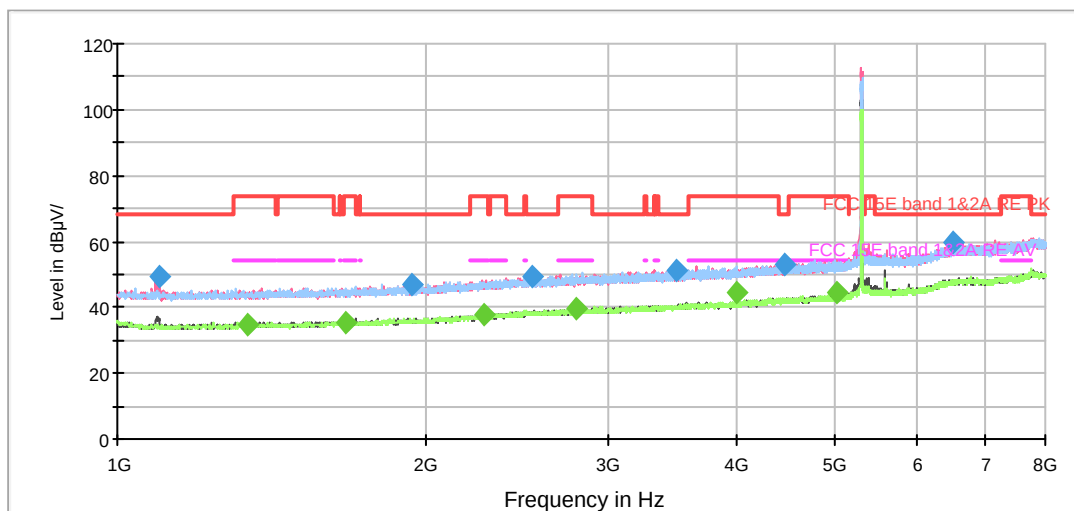
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1054.250000     | 47.0          | 200.0       | V            | 258.0         | -1.6                | 21.2        | 68.2           |
| 1652.750000     | 47.3          | 200.0       | V            | 71.0          | 0.2                 | 20.9        | 68.2           |
| 2641.500000     | 49.7          | 100.0       | V            | 178.0         | 3.9                 | 18.5        | 68.2           |
| 3516.500000     | 51.3          | 200.0       | H            | 115.0         | 6.2                 | 16.9        | 68.2           |
| 4449.250000     | 52.7          | 100.0       | V            | 345.0         | 8.6                 | 15.5        | 68.2           |
| 6673.500000     | 58.9          | 100.0       | V            | 254.0         | 15.0                | 9.3         | 68.2           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

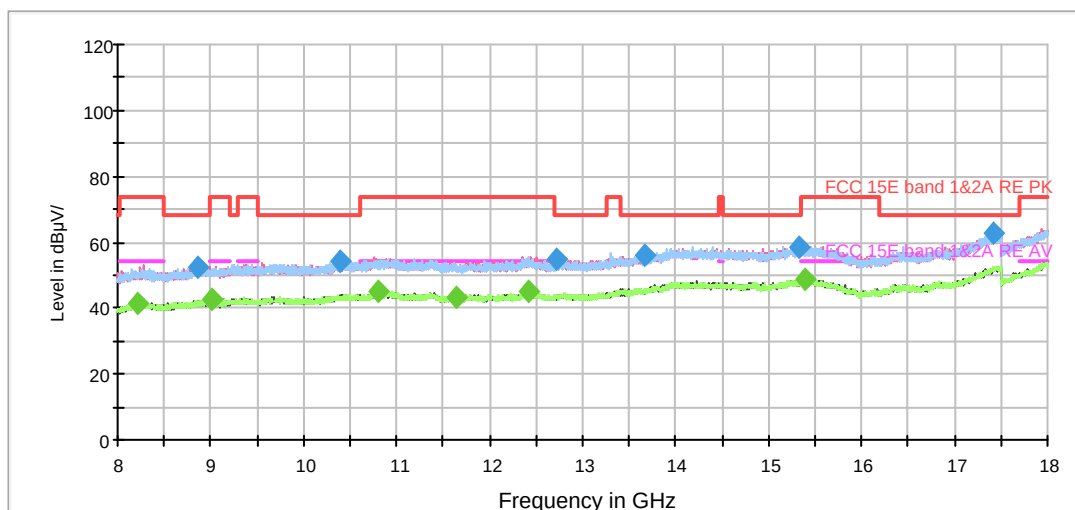
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1344.750000     | 34.8             | 100.0       | V            | 145.0         | -0.9                | 19.2        | 54.0           |
| 1666.750000     | 35.7             | 200.0       | V            | 190.0         | 0.2                 | 18.3        | 54.0           |
| 2328.250000     | 37.8             | 100.0       | V            | 189.0         | 2.9                 | 16.2        | 54.0           |
| 2700.125000     | 39.5             | 200.0       | H            | 0.0           | 4.0                 | 14.5        | 54.0           |
| 3999.500000     | 43.7             | 200.0       | V            | 145.0         | 7.3                 | 10.3        | 54.0           |
| 4968.125000     | 45.3             | 200.0       | V            | 281.0         | 9.5                 | 8.7         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11n (HT20) CH60



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



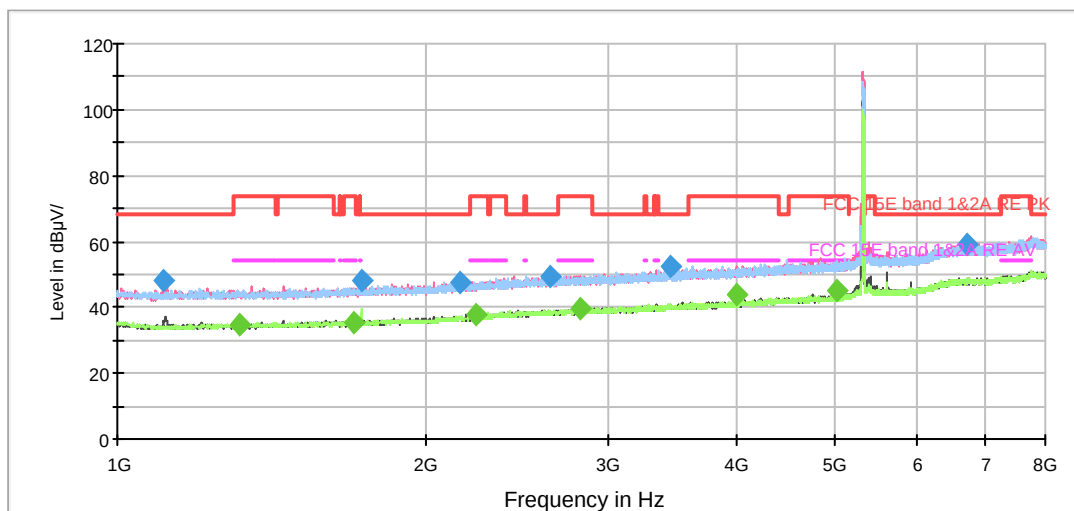
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1098.875000     | 49.2          | 200.0       | V            | 161.0         | -1.4                | 19.0        | 68.2           |
| 1938.000000     | 46.9          | 200.0       | V            | 10.0          | 1.0                 | 21.3        | 68.2           |
| 2529.500000     | 49.5          | 200.0       | H            | 190.0         | 3.7                 | 18.7        | 68.2           |
| 3497.250000     | 51.4          | 100.0       | H            | 3.0           | 6.1                 | 16.8        | 68.2           |
| 4471.125000     | 52.9          | 100.0       | V            | 242.0         | 8.7                 | 15.3        | 68.2           |
| 6505.500000     | 59.5          | 200.0       | V            | 5.0           | 14.9                | 8.7         | 68.2           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

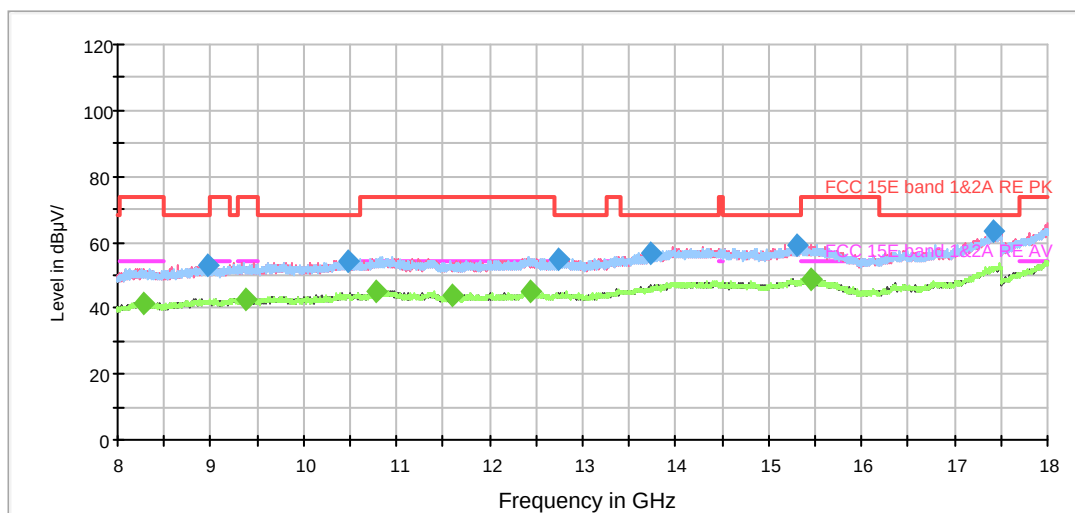
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1340.375000     | 34.9             | 100.0       | H            | 74.0          | -0.9                | 19.1        | 54.0           |
| 1668.500000     | 35.2             | 100.0       | V            | 0.0           | 0.3                 | 18.8        | 54.0           |
| 2278.375000     | 37.8             | 200.0       | H            | 336.0         | 2.7                 | 16.2        | 54.0           |
| 2802.500000     | 39.5             | 200.0       | H            | 156.0         | 4.3                 | 14.5        | 54.0           |
| 3999.500000     | 44.3             | 200.0       | V            | 139.0         | 7.3                 | 9.7         | 54.0           |
| 5005.750000     | 44.8             | 200.0       | V            | 74.0          | 9.6                 | 9.2         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11n (HT20) CH64



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



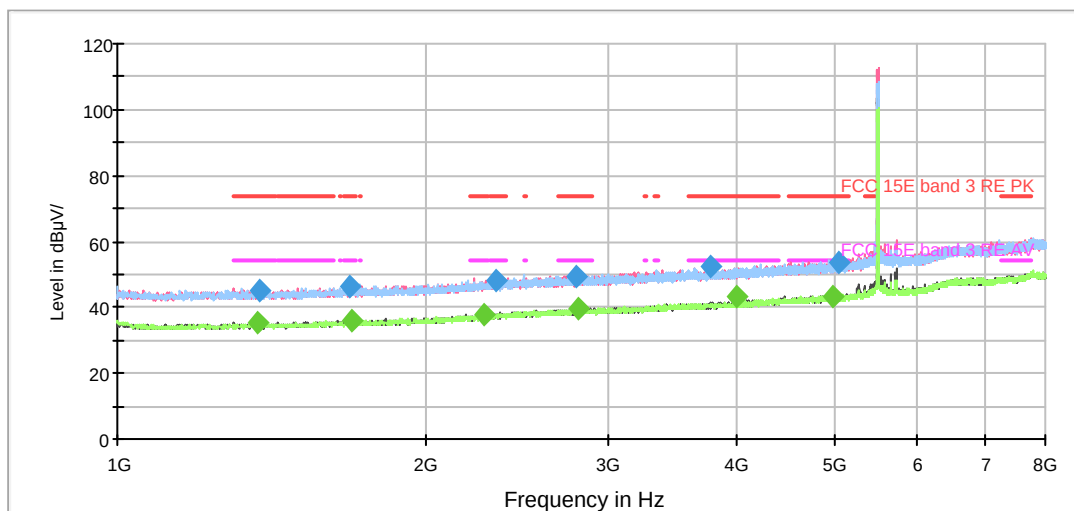
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1110.250000     | 48.1          | 200.0       | V            | 272.0         | -1.4                | 20.1        | 68.2           |
| 1727.125000     | 47.8          | 200.0       | H            | 340.0         | 0.4                 | 20.4        | 68.2           |
| 2159.375000     | 47.6          | 100.0       | V            | 296.0         | 2.0                 | 20.6        | 68.2           |
| 2637.125000     | 49.6          | 200.0       | V            | 30.0          | 3.9                 | 18.6        | 68.2           |
| 3447.375000     | 52.1          | 200.0       | H            | 358.0         | 6.0                 | 16.1        | 68.2           |
| 6709.375000     | 59.3          | 200.0       | H            | 9.0           | 15.0                | 8.9         | 68.2           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

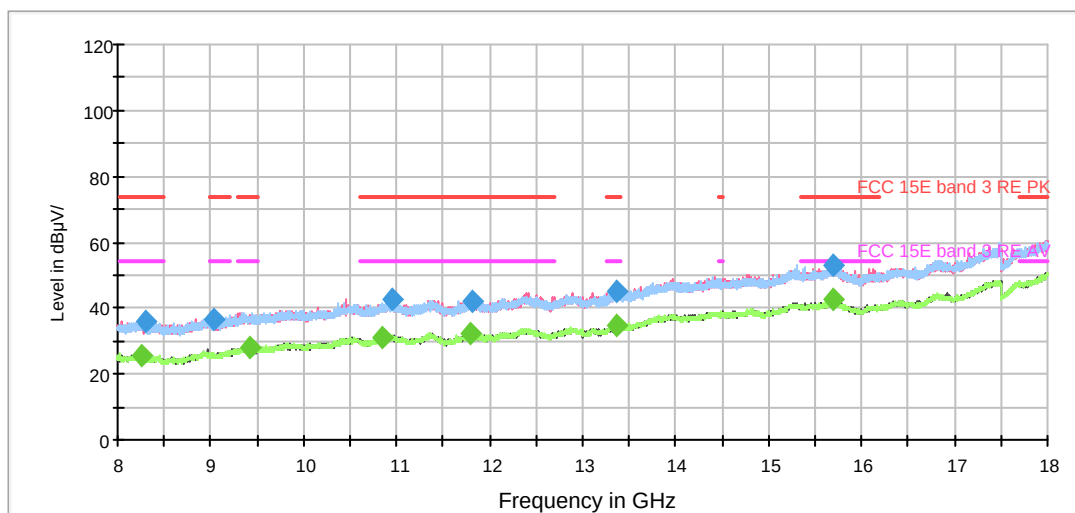
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1317.625000     | 34.9             | 100.0       | H            | 204.0         | -0.9                | 19.1        | 54.0           |
| 1697.375000     | 35.5             | 100.0       | V            | 344.0         | 0.4                 | 18.5        | 54.0           |
| 2238.125000     | 37.7             | 200.0       | V            | 6.0           | 2.4                 | 16.3        | 54.0           |
| 2823.500000     | 39.4             | 200.0       | V            | 40.0          | 4.4                 | 14.6        | 54.0           |
| 3999.500000     | 43.9             | 100.0       | V            | 285.0         | 7.3                 | 10.1        | 54.0           |
| 5024.125000     | 44.8             | 200.0       | V            | 272.0         | 9.7                 | 9.2         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## 802.11n (HT20) CH100



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz





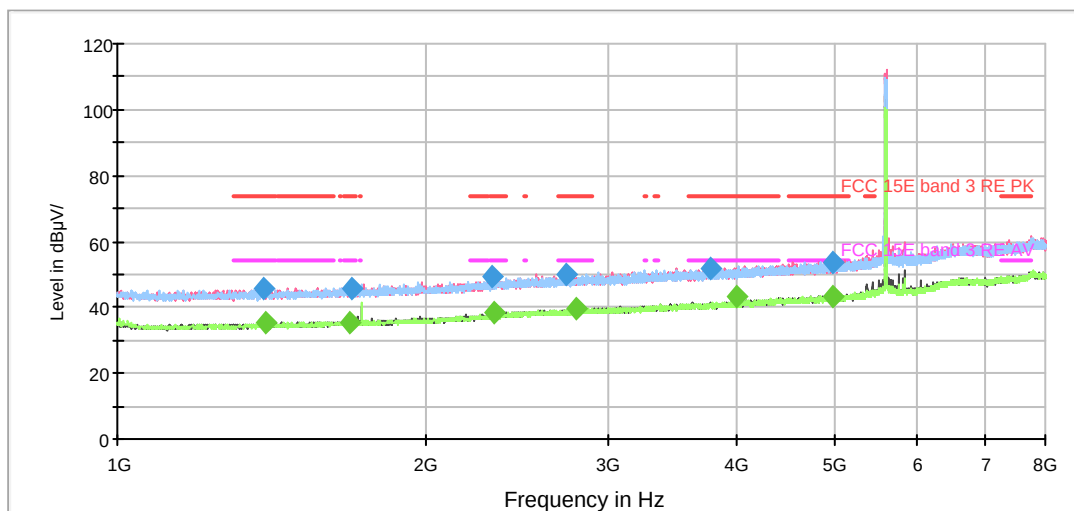
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1372.750000     | 45.1          | 200.0       | V            | 7.0           | -0.8                | 28.9        | 74.0           |
| 1681.625000     | 46.2          | 100.0       | H            | 40.0          | 0.3                 | 27.8        | 74.0           |
| 2331.750000     | 47.9          | 200.0       | V            | 10.0          | 2.9                 | 26.1        | 74.0           |
| 2801.625000     | 49.2          | 100.0       | H            | 2.0           | 4.3                 | 24.8        | 74.0           |
| 3781.625000     | 52.2          | 200.0       | V            | 1.0           | 6.8                 | 21.8        | 74.0           |
| 5035.500000     | 53.6          | 200.0       | V            | 22.0          | 9.8                 | 20.4        | 74.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

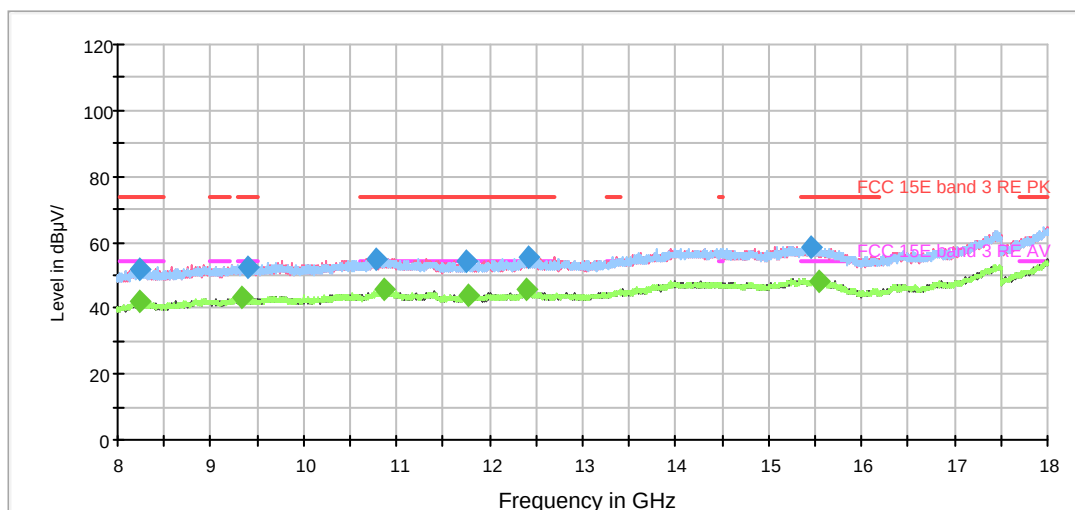
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1368.375000     | 35.1             | 100.0       | H            | 6.0           | -0.8                | 18.9        | 54.0           |
| 1693.875000     | 35.9             | 200.0       | V            | 157.0         | 0.4                 | 18.1        | 54.0           |
| 2274.875000     | 37.8             | 200.0       | H            | 227.0         | 2.7                 | 16.2        | 54.0           |
| 2809.500000     | 39.5             | 100.0       | H            | 40.0          | 4.3                 | 14.5        | 54.0           |
| 3999.500000     | 43.5             | 100.0       | V            | 257.0         | 7.3                 | 10.5        | 54.0           |
| 4970.750000     | 43.5             | 200.0       | H            | 262.0         | 9.5                 | 10.5        | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## 802.11n (HT20) CH120



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



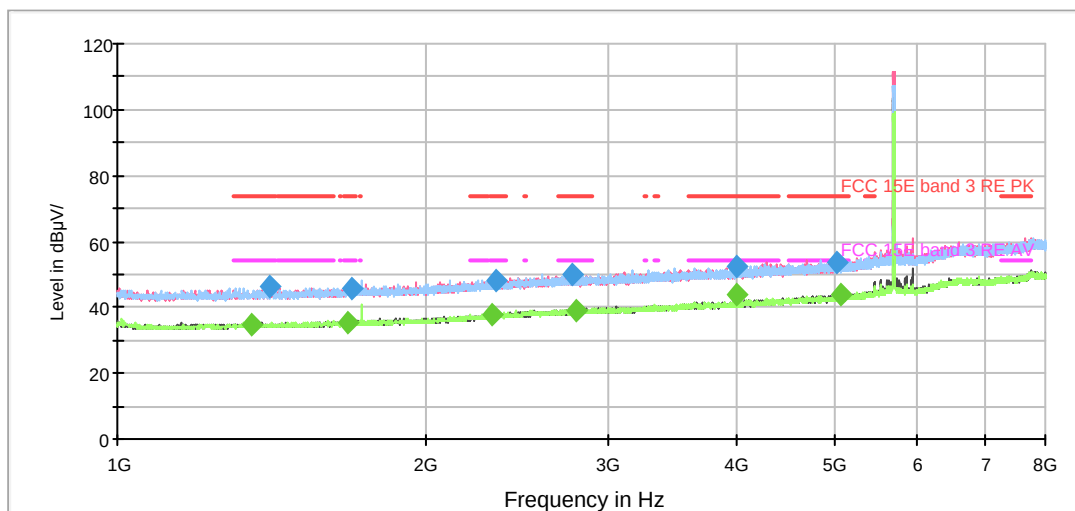
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1386.750000     | 45.8          | 100.0       | V            | 304.0         | -0.7                | 28.2        | 74.0           |
| 1691.250000     | 45.7          | 200.0       | H            | 146.0         | 0.4                 | 28.3        | 74.0           |
| 2315.125000     | 49.1          | 200.0       | H            | 337.0         | 2.8                 | 24.9        | 74.0           |
| 2734.250000     | 49.8          | 100.0       | V            | 344.0         | 4.1                 | 24.2        | 74.0           |
| 3779.875000     | 51.8          | 200.0       | V            | 1.0           | 6.8                 | 22.2        | 74.0           |
| 4965.500000     | 53.6          | 200.0       | H            | 0.0           | 9.5                 | 20.4        | 74.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

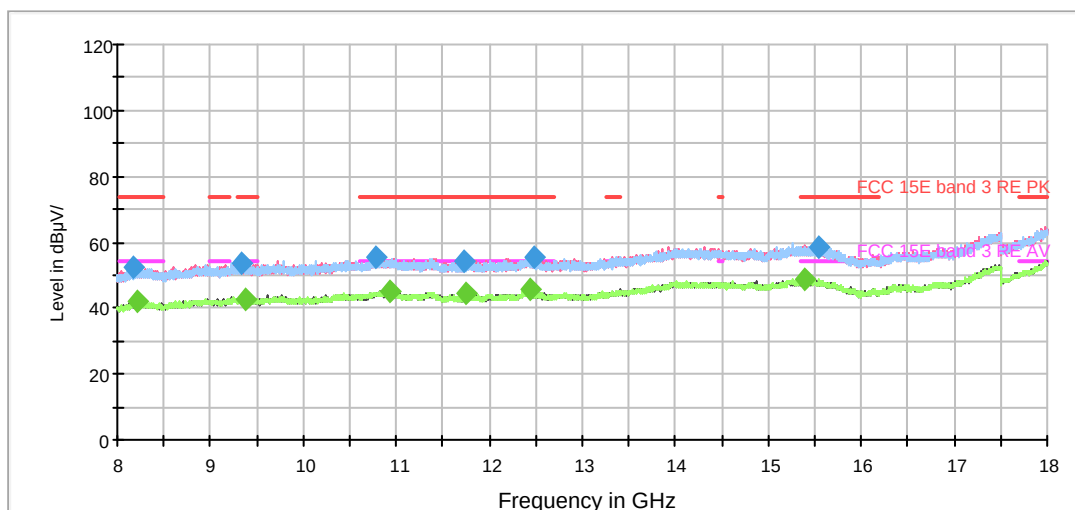
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1394.625000     | 35.3             | 100.0       | V            | 272.0         | -0.7                | 18.7        | 54.0           |
| 1684.250000     | 35.6             | 200.0       | H            | 86.0          | 0.3                 | 18.4        | 54.0           |
| 2326.500000     | 38.3             | 200.0       | V            | 252.0         | 2.9                 | 15.7        | 54.0           |
| 2793.750000     | 39.7             | 200.0       | H            | 0.0           | 4.3                 | 14.3        | 54.0           |
| 3999.500000     | 43.5             | 200.0       | V            | 119.0         | 7.3                 | 10.5        | 54.0           |
| 4977.750000     | 43.3             | 200.0       | V            | 119.0         | 9.5                 | 10.7        | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## 802.11n (HT20) CH140



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



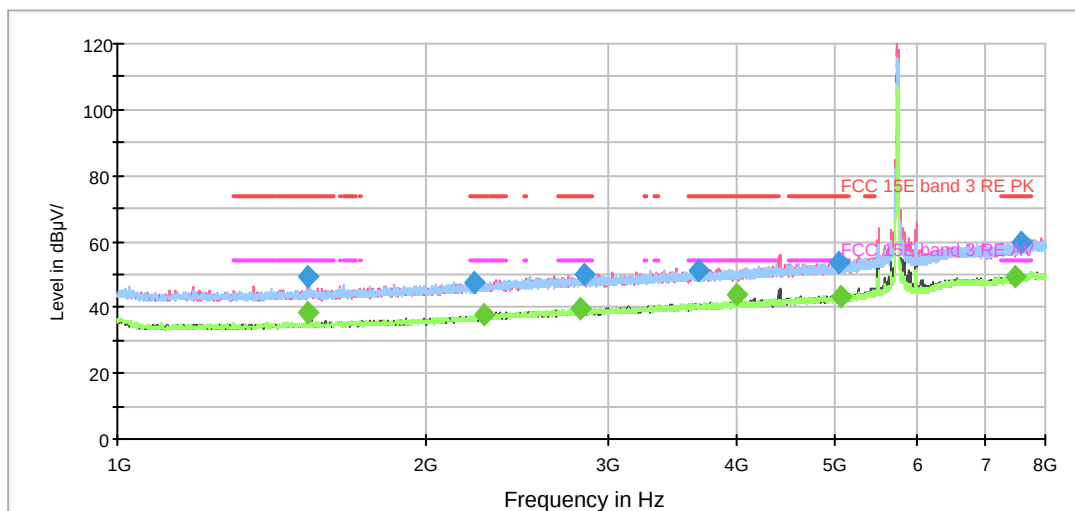
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1409.500000     | 46.2          | 200.0       | H            | 0.0           | -0.7                | 27.8        | 74.0           |
| 1687.750000     | 45.4          | 200.0       | V            | 232.0         | 0.4                 | 28.6        | 74.0           |
| 2338.750000     | 47.9          | 100.0       | V            | 357.0         | 3.0                 | 26.1        | 74.0           |
| 2767.500000     | 49.9          | 200.0       | H            | 46.0          | 4.2                 | 24.1        | 74.0           |
| 3999.500000     | 52.1          | 200.0       | V            | 138.0         | 7.3                 | 21.9        | 74.0           |
| 5016.250000     | 53.3          | 200.0       | V            | 5.0           | 9.6                 | 20.7        | 74.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

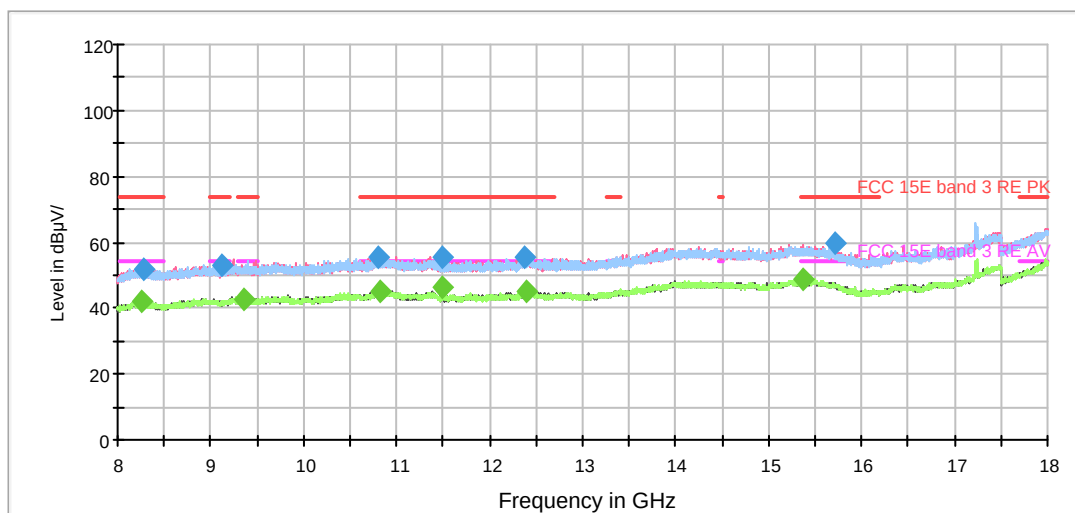
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1350.875000     | 34.9             | 100.0       | H            | 40.0          | -0.9                | 19.1        | 54.0           |
| 1678.125000     | 35.5             | 100.0       | H            | 10.0          | 0.3                 | 18.5        | 54.0           |
| 2311.625000     | 37.8             | 200.0       | V            | 37.0          | 2.8                 | 16.2        | 54.0           |
| 2801.625000     | 39.2             | 200.0       | V            | 3.0           | 4.3                 | 14.8        | 54.0           |
| 3999.500000     | 43.7             | 200.0       | V            | 138.0         | 7.3                 | 10.3        | 54.0           |
| 5051.250000     | 44.0             | 100.0       | V            | 344.0         | 9.8                 | 10.0        | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11n (HT20) CH149



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz





| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1534.625000     | 49.6          | 200.0       | V            | 269.0         | -0.3                | 24.4        | 74.0           |
| 2223.250000     | 47.8          | 100.0       | V            | 23.0          | 2.3                 | 26.2        | 74.0           |
| 2853.250000     | 50.0          | 100.0       | H            | 29.0          | 4.4                 | 24.0        | 74.0           |
| 3685.375000     | 51.1          | 200.0       | V            | 353.0         | 6.5                 | 22.9        | 74.0           |
| 5027.625000     | 53.8          | 200.0       | H            | 257.0         | 9.7                 | 20.2        | 74.0           |
| 7576.500000     | 59.6          | 100.0       | V            | 123.0         | 16.4                | 14.4        | 74.0           |

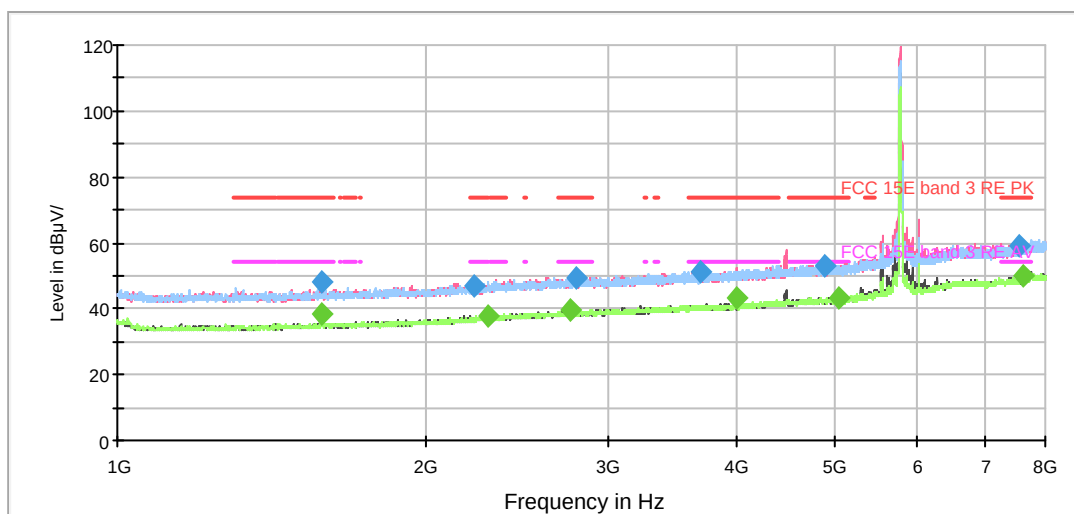
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1534.625000     | 38.5             | 200.0       | V            | 269.0         | -0.3                | 15.5        | 54.0           |
| 2274.875000     | 37.9             | 200.0       | V            | 353.0         | 2.7                 | 16.1        | 54.0           |
| 2820.000000     | 39.5             | 100.0       | V            | 353.0         | 4.4                 | 14.5        | 54.0           |
| 3999.500000     | 44.2             | 200.0       | V            | 160.0         | 7.3                 | 9.8         | 54.0           |
| 5056.500000     | 43.0             | 200.0       | V            | 358.0         | 9.8                 | 11.0        | 54.0           |
| 7484.625000     | 49.0             | 100.0       | V            | 0.0           | 16.0                | 5.0         | 54.0           |

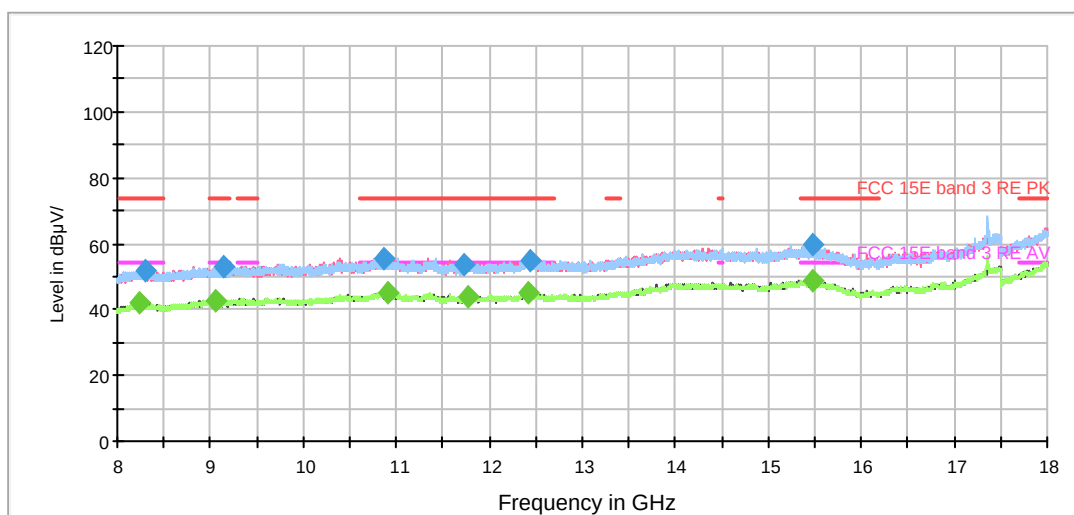
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



## 802.11n (HT20) CH157



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz



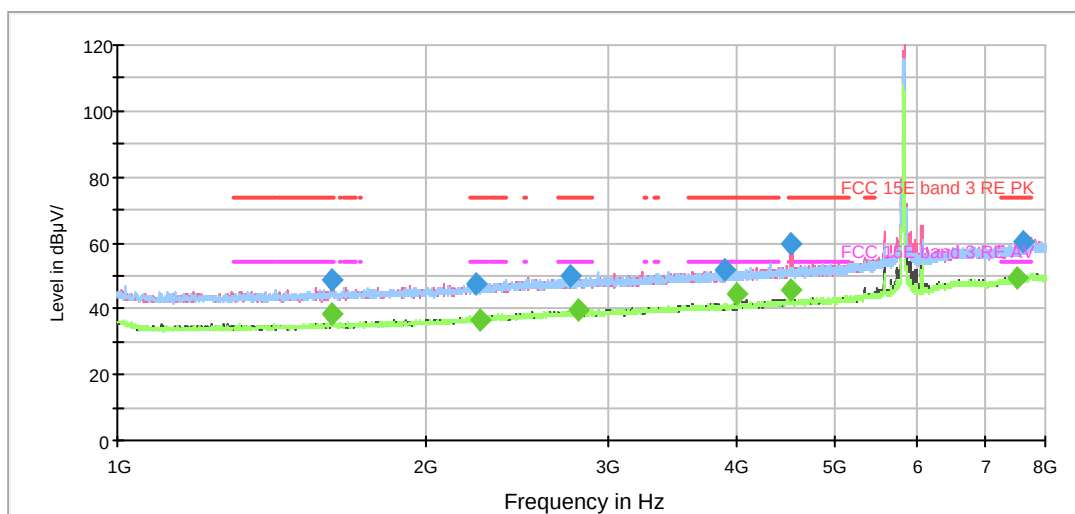
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1581.000000     | 48.1          | 200.0       | V            | 83.0          | -0.1                | 25.9        | 74.0           |
| 2226.750000     | 47.1          | 200.0       | H            | 6.0           | 2.3                 | 26.9        | 74.0           |
| 2791.125000     | 49.3          | 200.0       | H            | 21.0          | 4.3                 | 24.7        | 74.0           |
| 3694.125000     | 51.4          | 200.0       | V            | 356.0         | 6.5                 | 22.6        | 74.0           |
| 4883.250000     | 53.2          | 200.0       | V            | 339.0         | 9.5                 | 20.8        | 74.0           |
| 7540.625000     | 59.3          | 200.0       | V            | 242.0         | 16.2                | 14.7        | 74.0           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

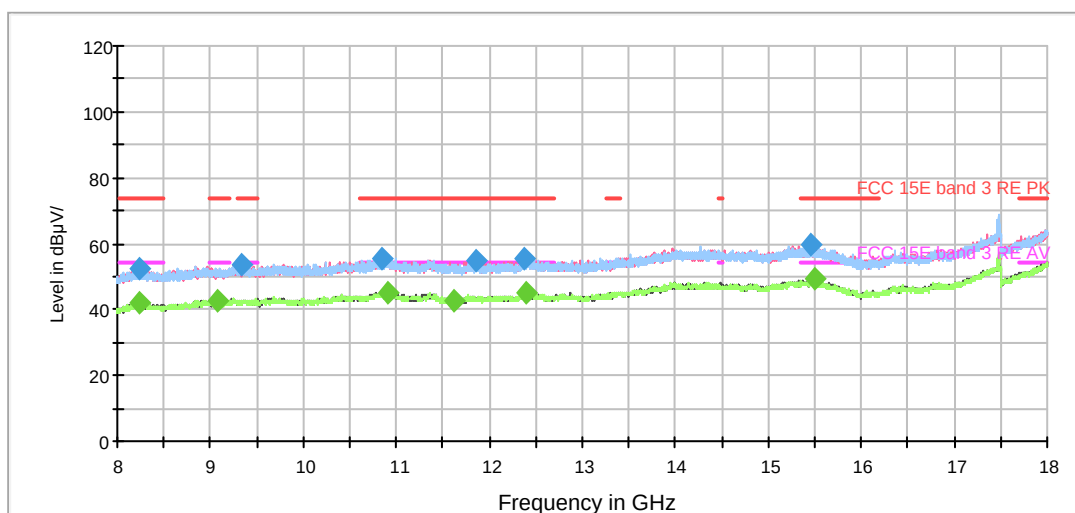
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1579.250000     | 38.5             | 200.0       | V            | 279.0         | -0.1                | 15.5        | 54.0           |
| 2290.625000     | 37.9             | 200.0       | V            | 104.0         | 2.7                 | 16.1        | 54.0           |
| 2754.375000     | 39.4             | 200.0       | H            | 6.0           | 4.2                 | 14.6        | 54.0           |
| 3999.500000     | 43.3             | 200.0       | V            | 242.0         | 7.3                 | 10.7        | 54.0           |
| 5032.875000     | 43.0             | 200.0       | H            | 66.0          | 9.7                 | 11.0        | 54.0           |
| 7619.375000     | 49.8             | 200.0       | V            | 321.0         | 16.5                | 4.2         | 54.0           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

## 802.11n (HT20) CH165



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz



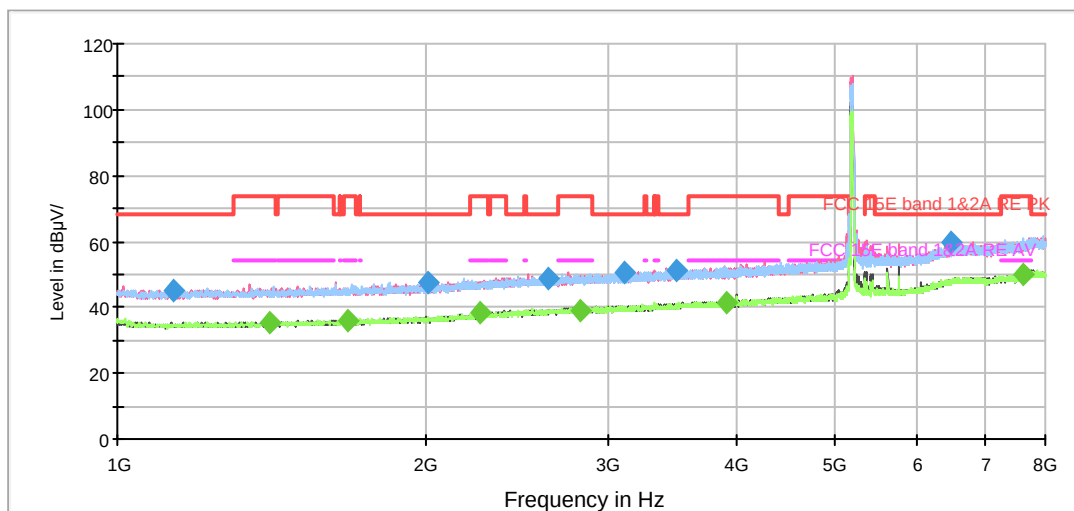
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1619.500000     | 48.8          | 200.0       | V            | 348.0         | 0.1                 | 25.2        | 74.0           |
| 2232.000000     | 47.3          | 200.0       | V            | 355.0         | 2.4                 | 26.7        | 74.0           |
| 2763.125000     | 50.0          | 100.0       | H            | 318.0         | 4.2                 | 24.0        | 74.0           |
| 3897.125000     | 51.9          | 200.0       | V            | 352.0         | 7.1                 | 22.1        | 74.0           |
| 4524.500000     | 59.7          | 200.0       | V            | 352.0         | 8.8                 | 14.3        | 74.0           |
| 7598.375000     | 60.4          | 200.0       | V            | 267.0         | 16.4                | 13.6        | 74.0           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

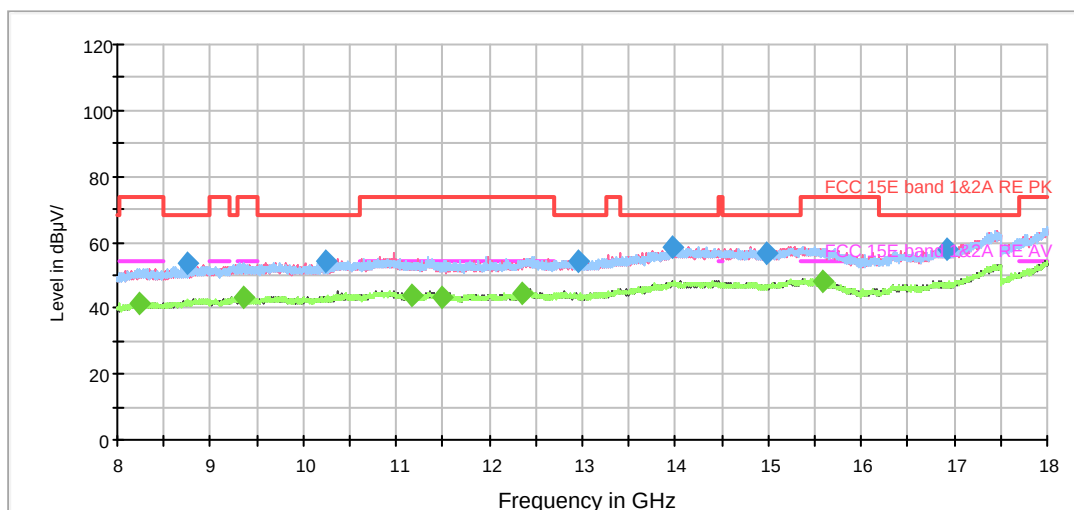
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1620.375000     | 38.5             | 200.0       | V            | 334.0         | 0.1                 | 15.5        | 54.0           |
| 2250.375000     | 36.6             | 200.0       | H            | 56.0          | 2.4                 | 17.4        | 54.0           |
| 2803.375000     | 39.3             | 100.0       | V            | 34.0          | 4.3                 | 14.7        | 54.0           |
| 3999.500000     | 44.3             | 200.0       | V            | 342.0         | 7.3                 | 9.7         | 54.0           |
| 4532.375000     | 46.0             | 100.0       | V            | 267.0         | 8.8                 | 8.0         | 54.0           |
| 7525.750000     | 49.3             | 200.0       | V            | 267.0         | 16.1                | 4.7         | 54.0           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

## 802.11n (HT40) CH38



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz





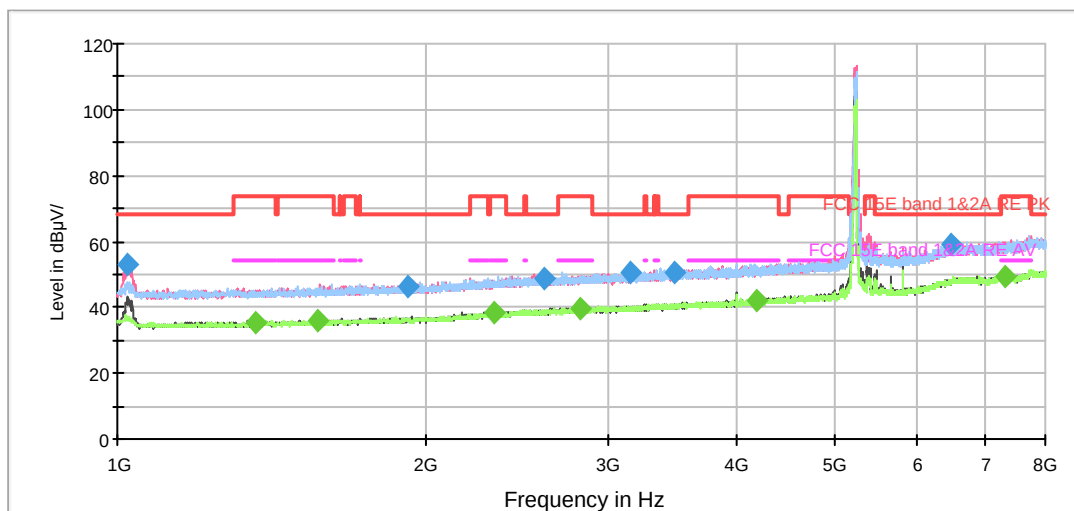
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1132.125000     | 44.9          | 100.0       | H            | 17.0          | -1.3                | 23.3        | 68.2           |
| 2007.125000     | 47.6          | 100.0       | V            | 272.0         | 1.1                 | 20.6        | 68.2           |
| 2626.625000     | 49.0          | 200.0       | H            | 292.0         | 3.8                 | 19.2        | 68.2           |
| 3112.250000     | 50.3          | 200.0       | H            | 345.0         | 5.0                 | 17.9        | 68.2           |
| 3501.625000     | 51.4          | 100.0       | V            | 303.0         | 6.1                 | 16.8        | 68.2           |
| 6472.250000     | 59.7          | 100.0       | V            | 224.0         | 14.6                | 8.5         | 68.2           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

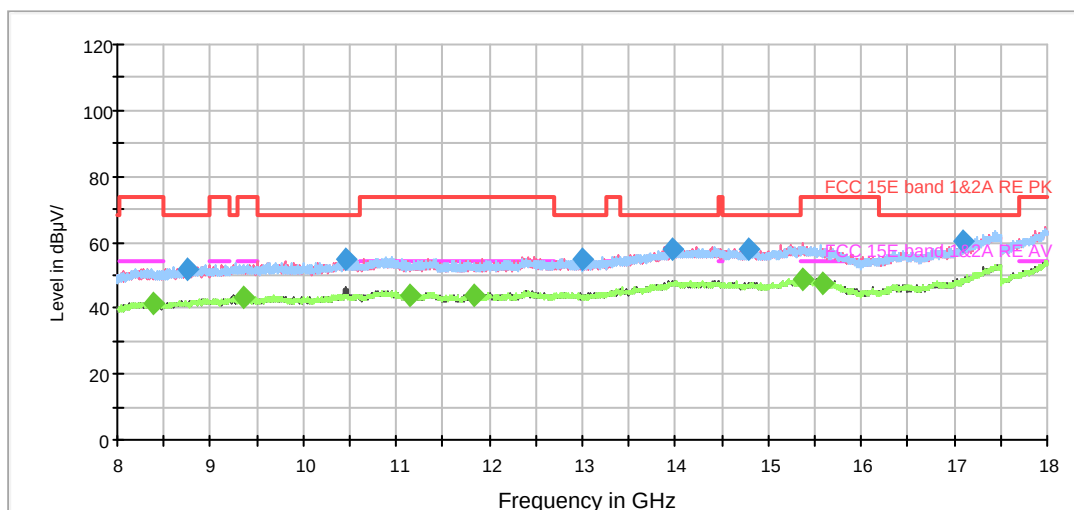
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1405.125000     | 35.6             | 200.0       | V            | 7.0           | -0.7                | 18.4        | 54.0           |
| 1677.250000     | 36.1             | 100.0       | V            | 192.0         | 0.3                 | 17.9        | 54.0           |
| 2253.875000     | 38.3             | 100.0       | H            | 44.0          | 2.5                 | 15.7        | 54.0           |
| 2821.750000     | 39.1             | 200.0       | V            | 54.0          | 4.4                 | 14.9        | 54.0           |
| 3913.750000     | 41.3             | 100.0       | V            | 328.0         | 7.1                 | 12.7        | 54.0           |
| 7615.875000     | 49.7             | 100.0       | V            | 23.0          | 16.5                | 4.3         | 54.0           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

## 802.11n (HT40) CH46



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz



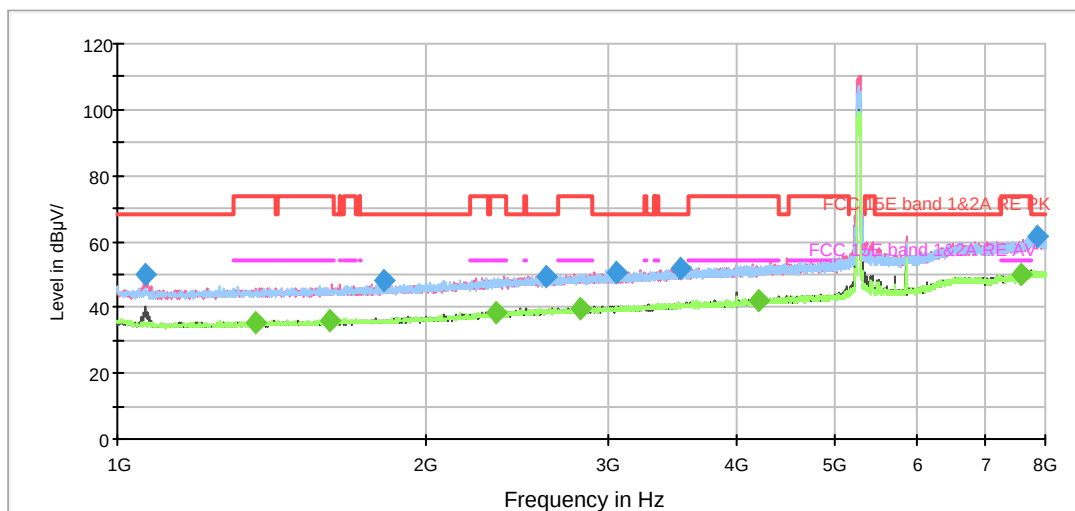
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1022.750000     | 52.8          | 200.0       | V            | 97.0          | -1.8                | 15.4        | 68.2           |
| 1921.375000     | 46.5          | 200.0       | H            | 0.0           | 1.0                 | 21.7        | 68.2           |
| 2602.125000     | 48.6          | 100.0       | H            | 151.0         | 3.8                 | 19.6        | 68.2           |
| 3157.750000     | 50.8          | 100.0       | H            | 357.0         | 5.2                 | 17.4        | 68.2           |
| 3489.375000     | 50.6          | 100.0       | V            | 0.0           | 6.0                 | 17.6        | 68.2           |
| 6476.625000     | 59.2          | 200.0       | V            | 160.0         | 14.7                | 9.0         | 68.2           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

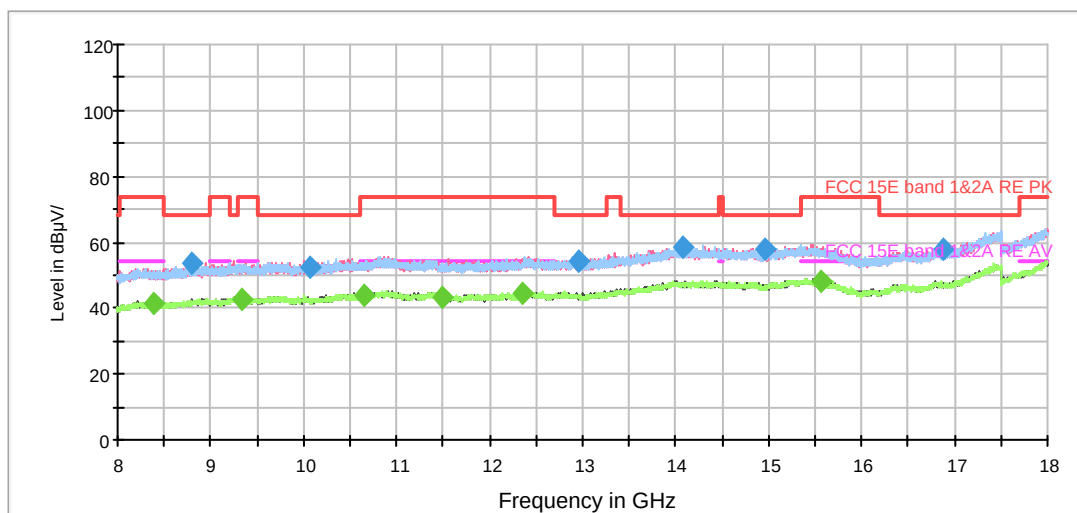
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1360.500000     | 35.3             | 100.0       | V            | 213.0         | -0.8                | 18.7        | 54.0           |
| 1563.500000     | 35.7             | 200.0       | H            | 348.0         | -0.2                | 18.3        | 54.0           |
| 2330.875000     | 38.4             | 100.0       | V            | 260.0         | 2.9                 | 15.6        | 54.0           |
| 2827.875000     | 39.6             | 100.0       | H            | 151.0         | 4.4                 | 14.4        | 54.0           |
| 4190.250000     | 41.9             | 100.0       | H            | 6.0           | 7.8                 | 12.1        | 54.0           |
| 7300.875000     | 49.1             | 100.0       | V            | 359.0         | 15.6                | 4.9         | 54.0           |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

## 802.11n (HT40) CH54



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



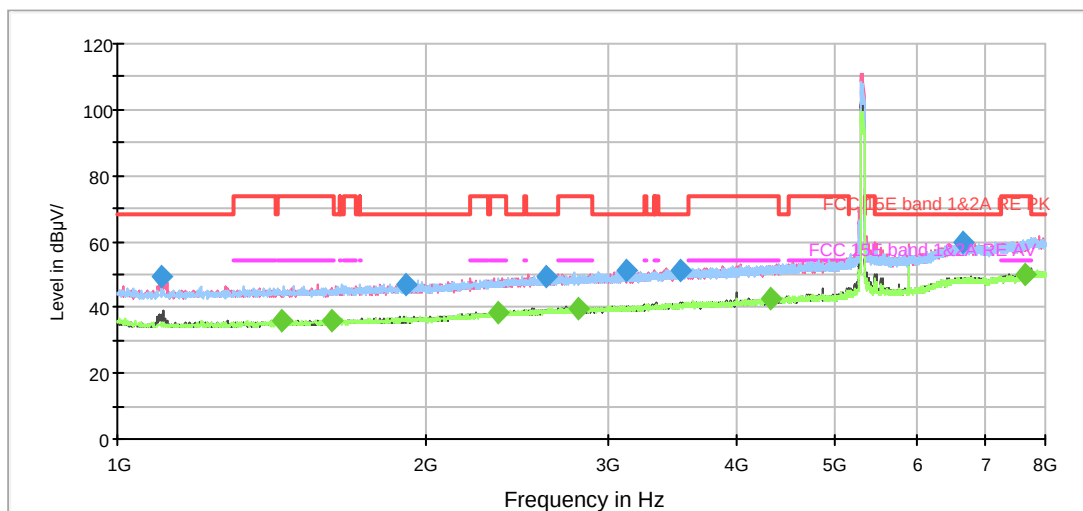
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1063.875000     | 50.3          | 200.0       | V            | 142.0         | -1.5                | 17.9        | 68.2           |
| 1815.500000     | 47.9          | 200.0       | H            | 349.0         | 0.7                 | 20.3        | 68.2           |
| 2615.250000     | 49.6          | 200.0       | V            | 0.0           | 3.8                 | 18.6        | 68.2           |
| 3058.875000     | 50.5          | 200.0       | H            | 317.0         | 4.9                 | 17.7        | 68.2           |
| 3526.125000     | 51.6          | 200.0       | V            | 262.0         | 6.3                 | 16.6        | 68.2           |
| 7842.500000     | 61.7          | 200.0       | V            | 19.0          | 17.5                | 6.5         | 68.2           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

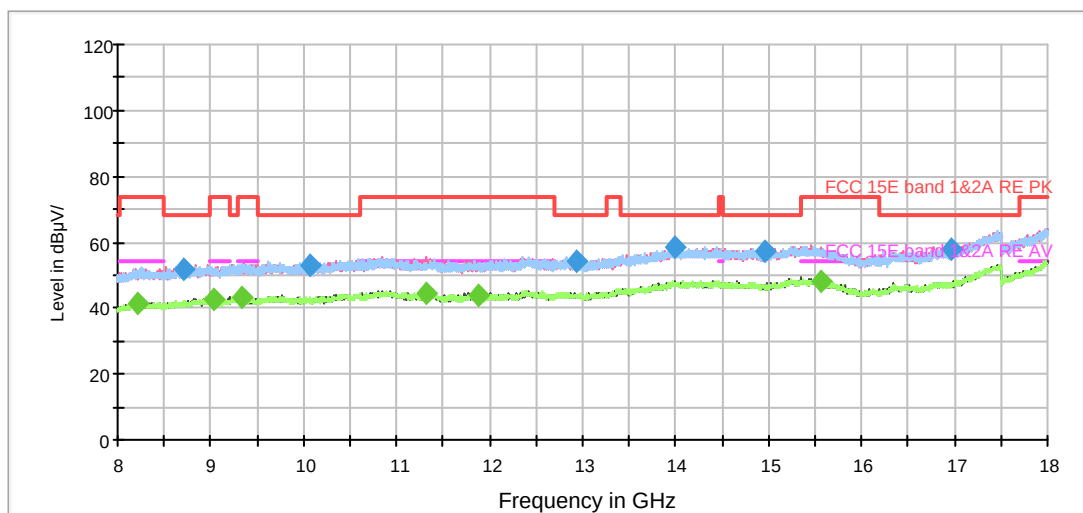
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1364.000000     | 35.6             | 200.0       | H            | 328.0         | -0.8                | 18.4        | 54.0           |
| 1608.125000     | 36.0             | 100.0       | V            | 146.0         | 0.0                 | 18.0        | 54.0           |
| 2331.750000     | 38.4             | 200.0       | V            | 318.0         | 2.9                 | 15.6        | 54.0           |
| 2823.500000     | 39.4             | 100.0       | V            | 272.0         | 4.4                 | 14.6        | 54.0           |
| 4199.875000     | 42.2             | 200.0       | V            | 3.0           | 7.8                 | 11.8        | 54.0           |
| 7591.375000     | 49.8             | 200.0       | H            | 289.0         | 16.4                | 4.2         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11n (HT40) CH62



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1103.250000     | 49.2          | 200.0       | V            | 83.0          | -1.4                | 19.0        | 68.2           |
| 1912.625000     | 46.8          | 200.0       | V            | 146.0         | 0.9                 | 21.4        | 68.2           |
| 2613.500000     | 49.6          | 200.0       | H            | 114.0         | 3.8                 | 18.6        | 68.2           |
| 3124.500000     | 51.1          | 200.0       | V            | 2.0           | 5.0                 | 17.1        | 68.2           |
| 3538.375000     | 51.3          | 100.0       | H            | 63.0          | 6.3                 | 16.9        | 68.2           |
| 6648.125000     | 59.5          | 200.0       | H            | 240.0         | 15.0                | 8.7         | 68.2           |

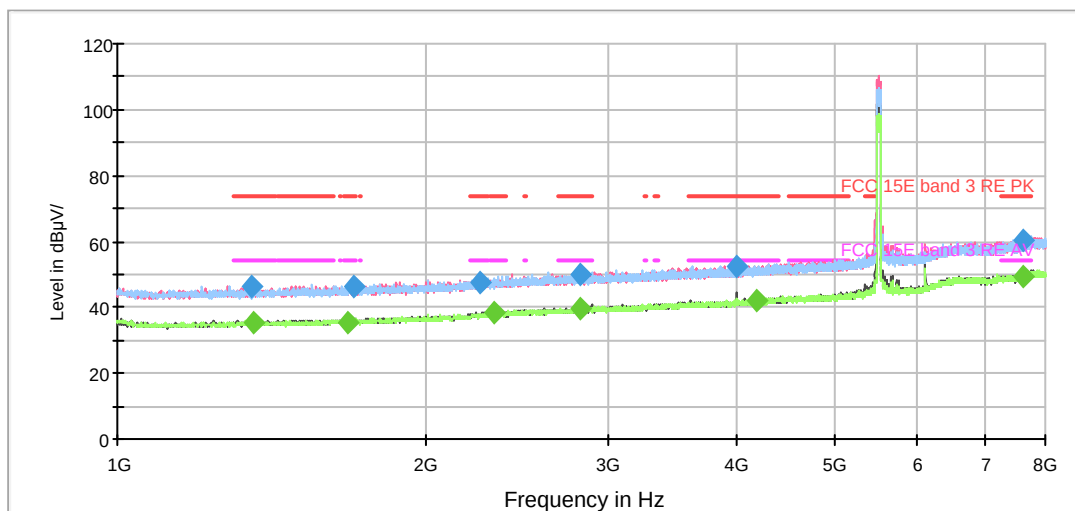
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1448.000000     | 35.7             | 200.0       | V            | 116.0         | -0.6                | 18.3        | 54.0           |
| 1615.125000     | 36.2             | 100.0       | V            | 114.0         | 0.0                 | 17.8        | 54.0           |
| 2343.125000     | 38.2             | 100.0       | V            | 228.0         | 3.0                 | 15.8        | 54.0           |
| 2810.375000     | 39.5             | 200.0       | V            | 10.0          | 4.3                 | 14.5        | 54.0           |
| 4324.125000     | 42.7             | 100.0       | H            | 110.0         | 8.3                 | 11.3        | 54.0           |
| 7639.500000     | 50.1             | 200.0       | H            | 318.0         | 16.6                | 3.9         | 54.0           |

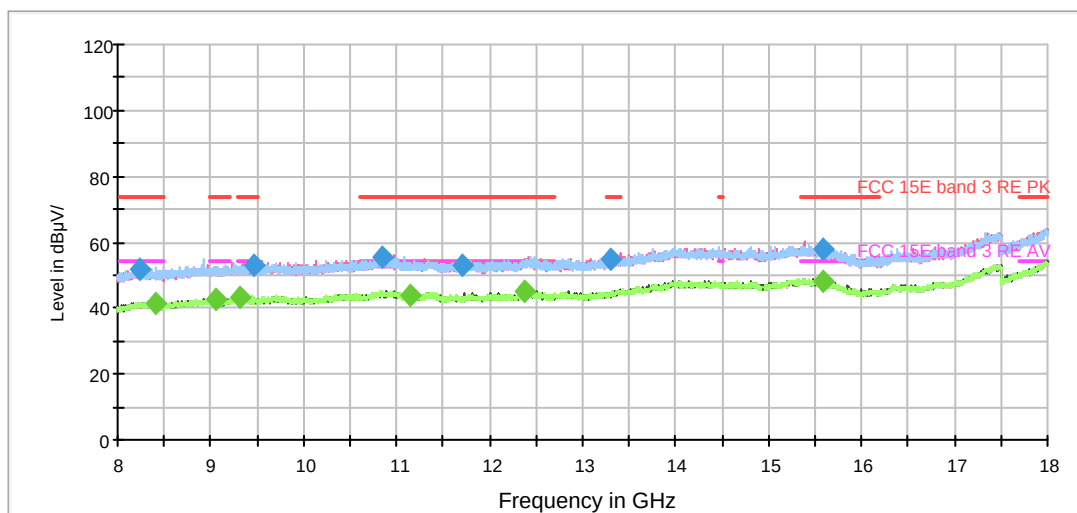
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



# 802.11n (HT40) CH102



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



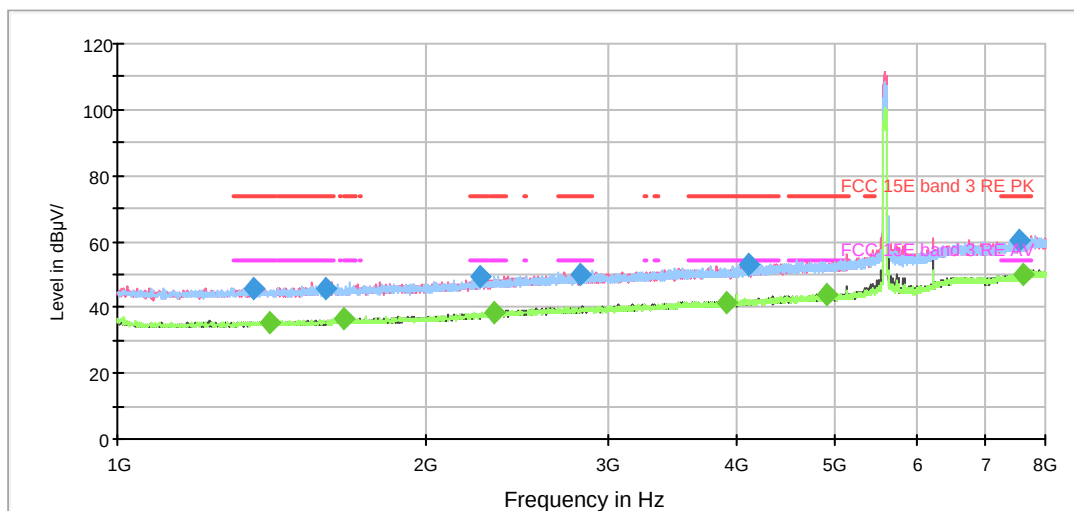
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1352.625000     | 46.1          | 200.0       | H            | 128.0         | -0.9                | 27.9        | 74.0           |
| 1700.000000     | 46.5          | 100.0       | V            | 277.0         | 0.4                 | 27.5        | 74.0           |
| 2257.375000     | 47.8          | 200.0       | H            | 0.0           | 2.5                 | 26.2        | 74.0           |
| 2820.875000     | 50.2          | 100.0       | V            | 339.0         | 4.4                 | 23.8        | 74.0           |
| 4000.375000     | 52.4          | 100.0       | H            | 176.0         | 7.3                 | 21.6        | 74.0           |
| 7626.375000     | 60.6          | 200.0       | H            | 345.0         | 16.6                | 13.4        | 74.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

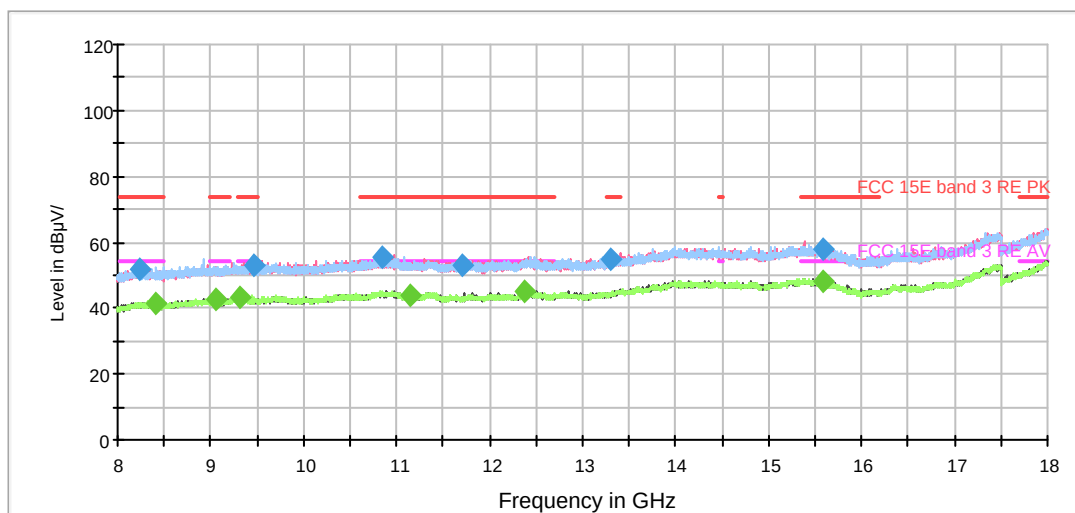
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1358.750000     | 35.3             | 100.0       | H            | 315.0         | -0.8                | 18.7        | 54.0           |
| 1674.625000     | 35.6             | 200.0       | V            | 34.0          | 0.3                 | 18.4        | 54.0           |
| 2326.500000     | 38.3             | 100.0       | V            | 346.0         | 2.9                 | 15.7        | 54.0           |
| 2821.750000     | 39.8             | 100.0       | V            | 241.0         | 4.4                 | 14.2        | 54.0           |
| 4185.000000     | 42.3             | 200.0       | V            | 102.0         | 7.8                 | 11.7        | 54.0           |
| 7599.250000     | 49.3             | 100.0       | V            | 351.0         | 16.5                | 4.7         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## 802.11n (HT40) CH118



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



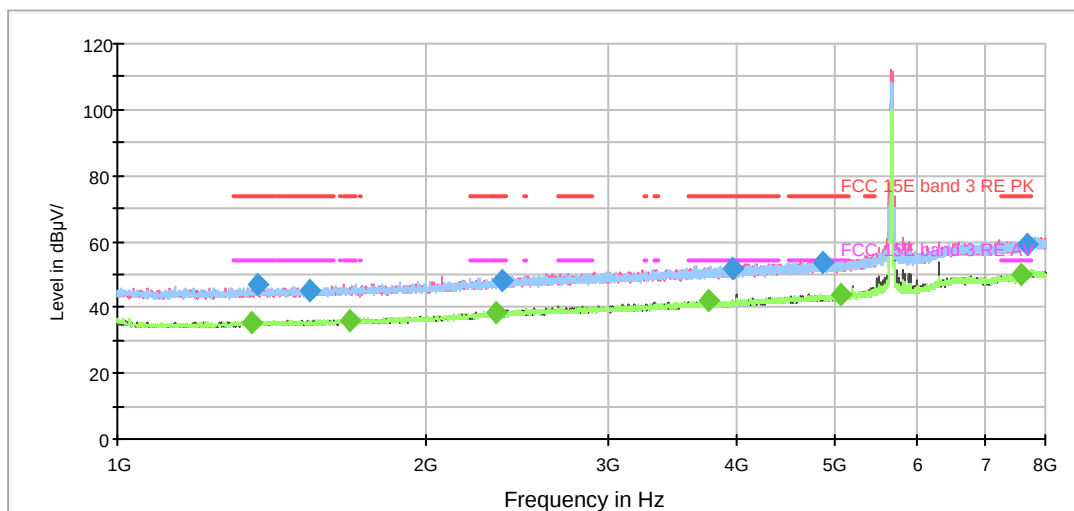
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1355.250000     | 45.8          | 100.0       | V            | 257.0         | -0.9                | 28.2        | 74.0           |
| 1595.000000     | 45.9          | 200.0       | H            | 357.0         | 0.0                 | 28.1        | 74.0           |
| 2258.250000     | 49.5          | 200.0       | H            | 351.0         | 2.5                 | 24.5        | 74.0           |
| 2818.250000     | 50.0          | 200.0       | H            | 331.0         | 4.3                 | 24.0        | 74.0           |
| 4108.875000     | 52.7          | 200.0       | V            | 120.0         | 7.7                 | 21.3        | 74.0           |
| 7533.625000     | 60.1          | 100.0       | V            | 0.0           | 16.2                | 13.9        | 74.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

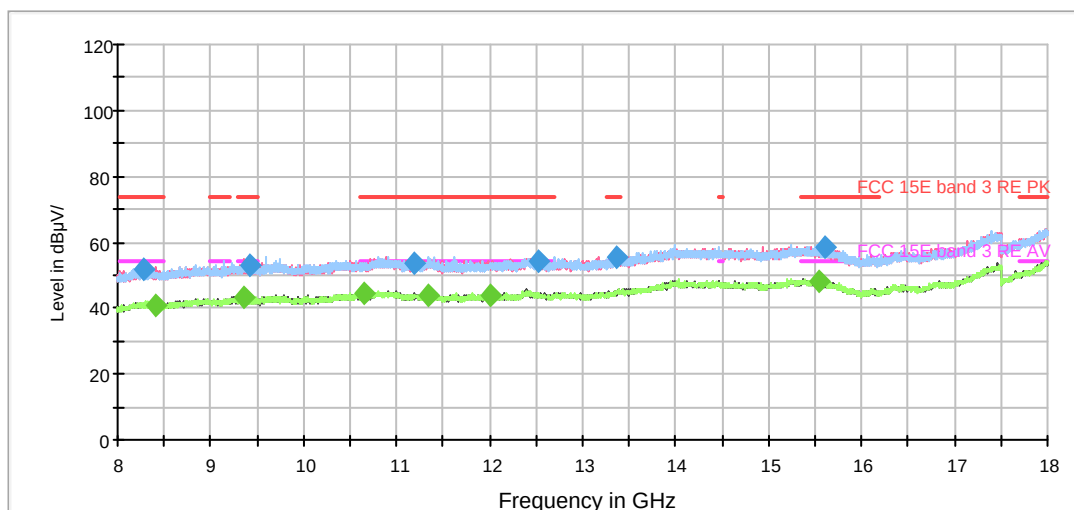
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1407.750000     | 35.1             | 200.0       | H            | 346.0         | -0.7                | 18.9        | 54.0           |
| 1659.750000     | 36.4             | 200.0       | V            | 29.0          | 0.2                 | 17.6        | 54.0           |
| 2330.000000     | 38.6             | 100.0       | V            | 346.0         | 2.9                 | 15.4        | 54.0           |
| 3921.625000     | 41.4             | 100.0       | V            | 222.0         | 7.1                 | 12.6        | 54.0           |
| 4913.875000     | 43.9             | 200.0       | V            | 102.0         | 9.5                 | 10.1        | 54.0           |
| 7630.750000     | 50.1             | 100.0       | H            | 193.0         | 16.6                | 3.9         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11n (HT40) CH134



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



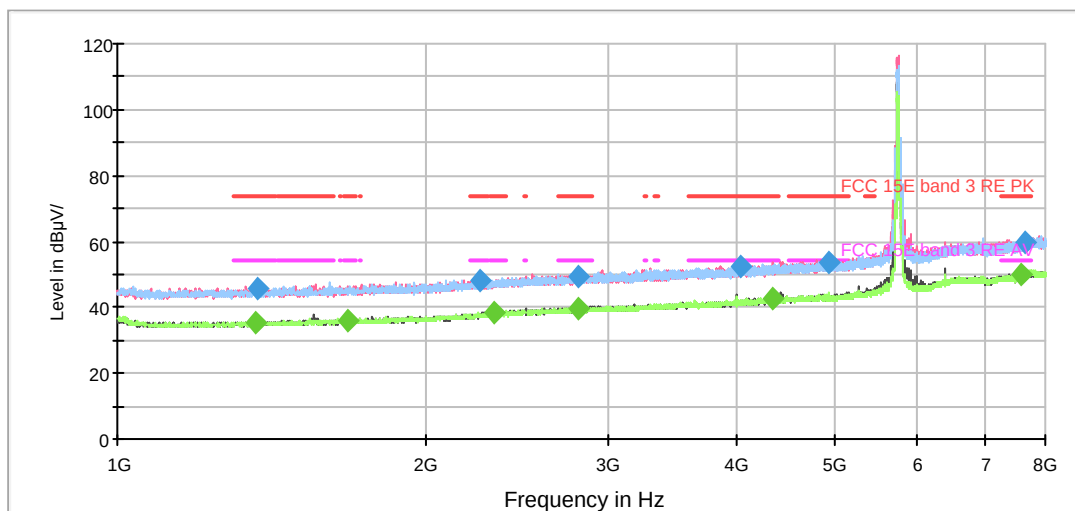
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1369.250000     | 46.7          | 200.0       | V            | 1.0           | -0.8                | 27.3        | 74.0           |
| 1537.250000     | 45.3          | 100.0       | V            | 359.0         | -0.3                | 28.7        | 74.0           |
| 2365.000000     | 48.1          | 100.0       | V            | 293.0         | 3.0                 | 25.9        | 74.0           |
| 3961.875000     | 51.9          | 200.0       | V            | 1.0           | 7.1                 | 22.1        | 74.0           |
| 4865.750000     | 53.3          | 100.0       | V            | 345.0         | 9.5                 | 20.7        | 74.0           |
| 7695.500000     | 59.2          | 100.0       | V            | 165.0         | 16.9                | 14.8        | 74.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

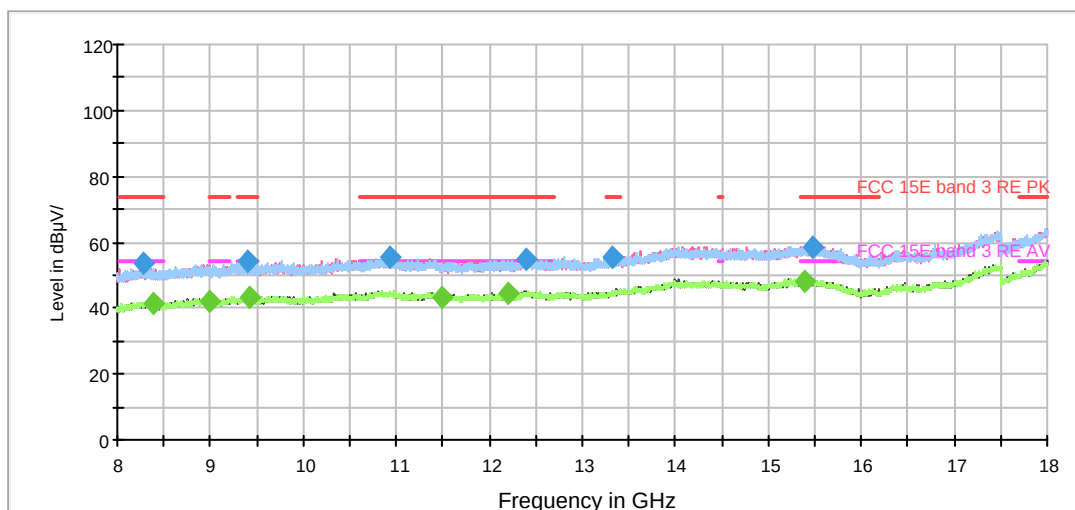
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1350.000000     | 35.6             | 200.0       | V            | 0.0           | -0.9                | 18.4        | 54.0           |
| 1686.875000     | 36.0             | 200.0       | V            | 0.0           | 0.4                 | 18.0        | 54.0           |
| 2340.500000     | 38.2             | 100.0       | V            | 329.0         | 3.0                 | 15.8        | 54.0           |
| 3769.375000     | 42.2             | 200.0       | H            | 153.0         | 6.7                 | 11.8        | 54.0           |
| 5051.250000     | 44.0             | 200.0       | H            | 172.0         | 9.8                 | 10.0        | 54.0           |
| 7584.375000     | 49.6             | 100.0       | H            | 0.0           | 16.4                | 4.4         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## 802.11n (HT40) CH151



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz





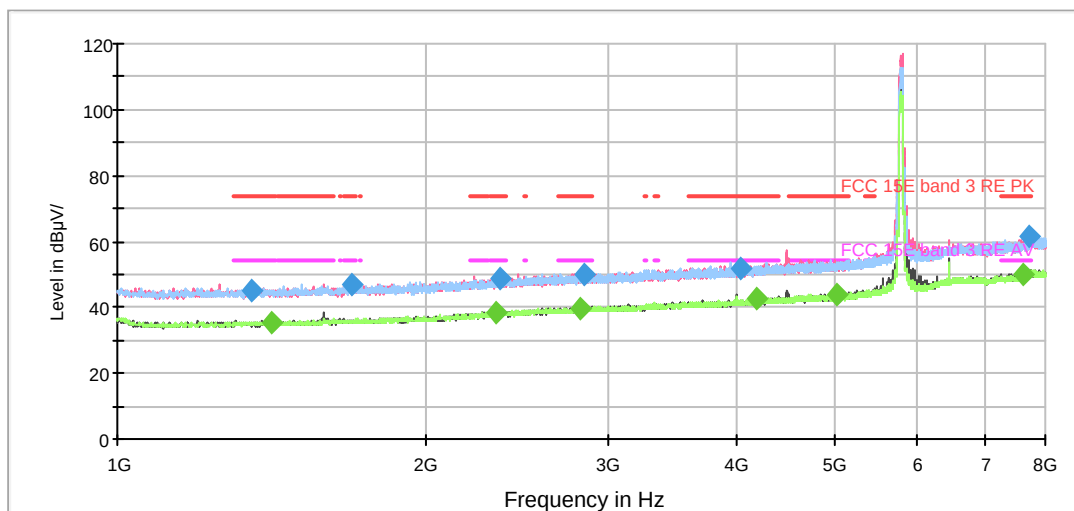
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1371.875000     | 45.7          | 200.0       | V            | 63.0          | -0.8                | 28.3        | 74.0           |
| 2253.000000     | 48.0          | 200.0       | H            | 359.0         | 2.5                 | 26.0        | 74.0           |
| 2806.875000     | 49.2          | 100.0       | V            | 279.0         | 4.3                 | 24.8        | 74.0           |
| 4049.375000     | 52.2          | 100.0       | V            | 205.0         | 7.5                 | 21.8        | 74.0           |
| 4916.500000     | 53.6          | 100.0       | V            | 205.0         | 9.5                 | 20.4        | 74.0           |
| 7643.875000     | 59.5          | 100.0       | H            | 14.0          | 16.6                | 14.5        | 74.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

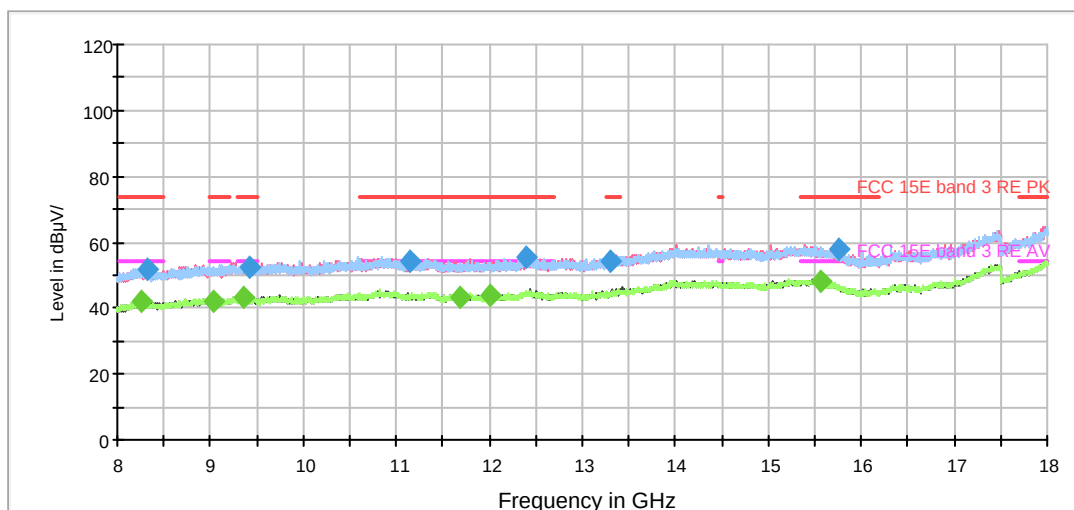
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1360.500000     | 35.4             | 100.0       | V            | 322.0         | -0.8                | 18.6        | 54.0           |
| 1674.625000     | 36.0             | 100.0       | V            | 0.0           | 0.3                 | 18.0        | 54.0           |
| 2328.250000     | 38.3             | 200.0       | H            | 0.0           | 2.9                 | 15.7        | 54.0           |
| 2810.375000     | 39.5             | 100.0       | V            | 46.0          | 4.3                 | 14.5        | 54.0           |
| 4341.625000     | 42.7             | 100.0       | H            | 30.0          | 8.3                 | 11.3        | 54.0           |
| 7579.125000     | 49.6             | 100.0       | H            | 4.0           | 16.4                | 4.4         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## 802.11n (HT40) CH159



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1353.500000     | 44.9          | 200.0       | V            | 3.0           | -0.9                | 29.1        | 74.0           |
| 1687.750000     | 46.9          | 100.0       | V            | 354.0         | 0.4                 | 27.1        | 74.0           |
| 2353.625000     | 48.5          | 100.0       | H            | 155.0         | 3.0                 | 25.5        | 74.0           |
| 2842.750000     | 49.7          | 100.0       | V            | 307.0         | 4.4                 | 24.3        | 74.0           |
| 4038.875000     | 51.5          | 200.0       | H            | 351.0         | 7.5                 | 22.5        | 74.0           |
| 7724.375000     | 61.5          | 200.0       | V            | 119.0         | 17.1                | 12.5        | 74.0           |

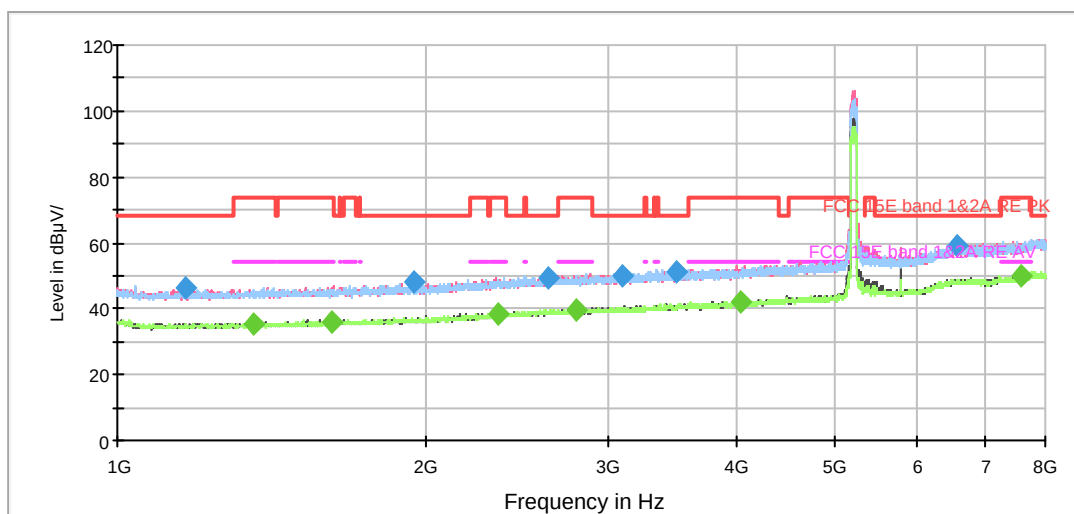
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1411.250000     | 35.5             | 200.0       | H            | 0.0           | -0.7                | 18.5        | 54.0           |
| 2341.375000     | 38.2             | 100.0       | V            | 68.0          | 3.0                 | 15.8        | 54.0           |
| 2818.250000     | 39.5             | 100.0       | H            | 155.0         | 4.3                 | 14.5        | 54.0           |
| 4192.875000     | 42.6             | 100.0       | V            | 46.0          | 7.8                 | 11.4        | 54.0           |
| 5021.500000     | 43.8             | 100.0       | V            | 346.0         | 9.7                 | 10.2        | 54.0           |
| 7610.625000     | 49.8             | 200.0       | H            | 340.0         | 16.5                | 4.2         | 54.0           |

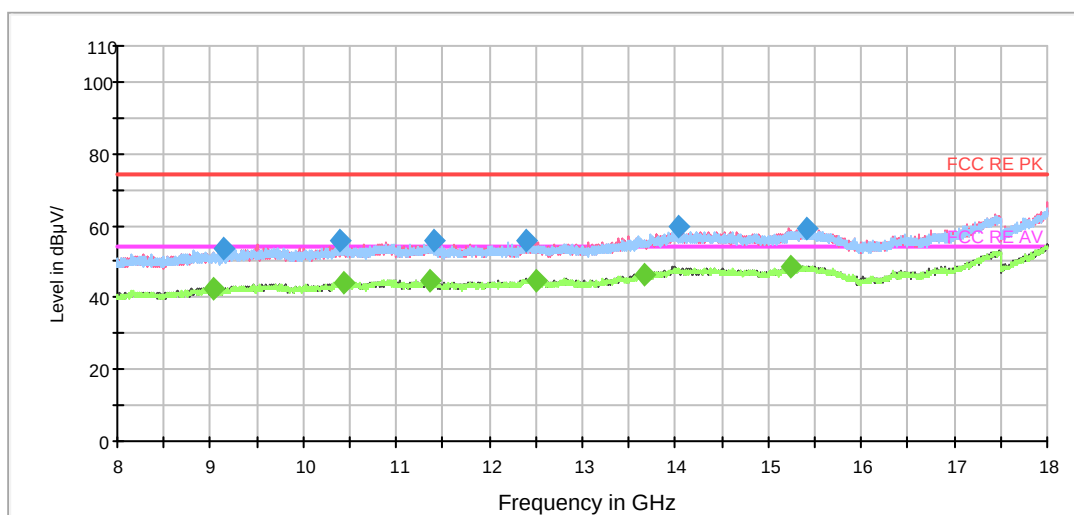
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**



## 802.11ac (HT80) CH42



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1166.250000     | 46.3          | 200.0       | V            | 96.0          | -1.3                | 21.9        | 68.2           |
| 1944.125000     | 47.9          | 100.0       | H            | 213.0         | 1.0                 | 20.3        | 68.2           |
| 2624.875000     | 49.1          | 100.0       | H            | 6.0           | 3.8                 | 19.1        | 68.2           |
| 3100.875000     | 49.9          | 100.0       | H            | 4.0           | 5.0                 | 18.3        | 68.2           |
| 3493.750000     | 51.1          | 100.0       | H            | 0.0           | 6.0                 | 17.1        | 68.2           |
| 6558.875000     | 59.0          | 200.0       | V            | 20.0          | 15.0                | 9.2         | 68.2           |

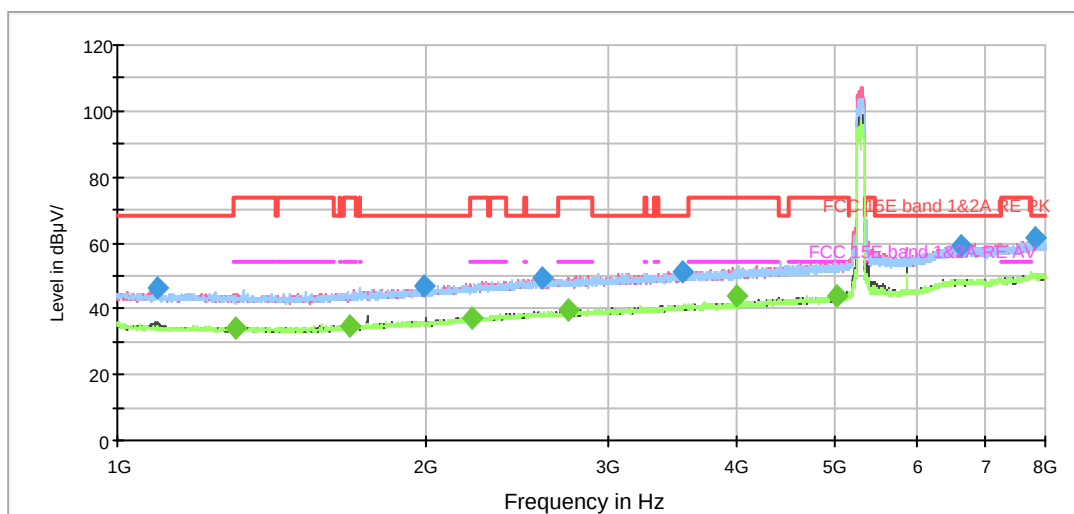
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1359.625000     | 35.2             | 200.0       | H            | 328.0         | -0.8                | 18.8        | 54.0           |
| 1617.750000     | 36.1             | 200.0       | V            | 209.0         | 0.1                 | 17.9        | 54.0           |
| 2342.250000     | 38.5             | 200.0       | H            | 356.0         | 3.0                 | 15.5        | 54.0           |
| 2794.625000     | 39.6             | 100.0       | V            | 247.0         | 4.3                 | 14.4        | 54.0           |
| 4037.125000     | 41.9             | 200.0       | V            | 2.0           | 7.5                 | 12.1        | 54.0           |
| 7563.375000     | 49.6             | 200.0       | H            | 275.0         | 16.3                | 4.4         | 54.0           |

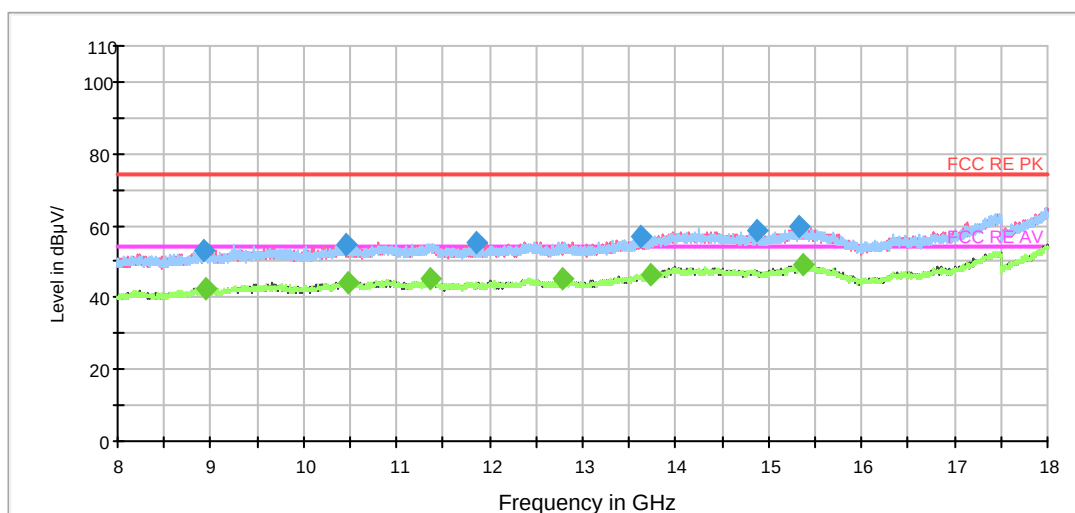
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**



## 802.11ac (HT80) CH58



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1096.250000     | 46.3          | 200.0       | V            | 153.0         | -1.4                | 21.9        | 68.2           |
| 1990.500000     | 47.2          | 100.0       | V            | 237.0         | 1.1                 | 21.0        | 68.2           |
| 2586.375000     | 49.1          | 200.0       | V            | 5.0           | 3.8                 | 19.1        | 68.2           |
| 3543.625000     | 51.3          | 200.0       | V            | 169.0         | 6.3                 | 16.9        | 68.2           |
| 6619.250000     | 59.3          | 100.0       | V            | 312.0         | 15.0                | 8.9         | 68.2           |
| 7813.625000     | 61.6          | 200.0       | H            | 202.0         | 17.4                | 6.6         | 68.2           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

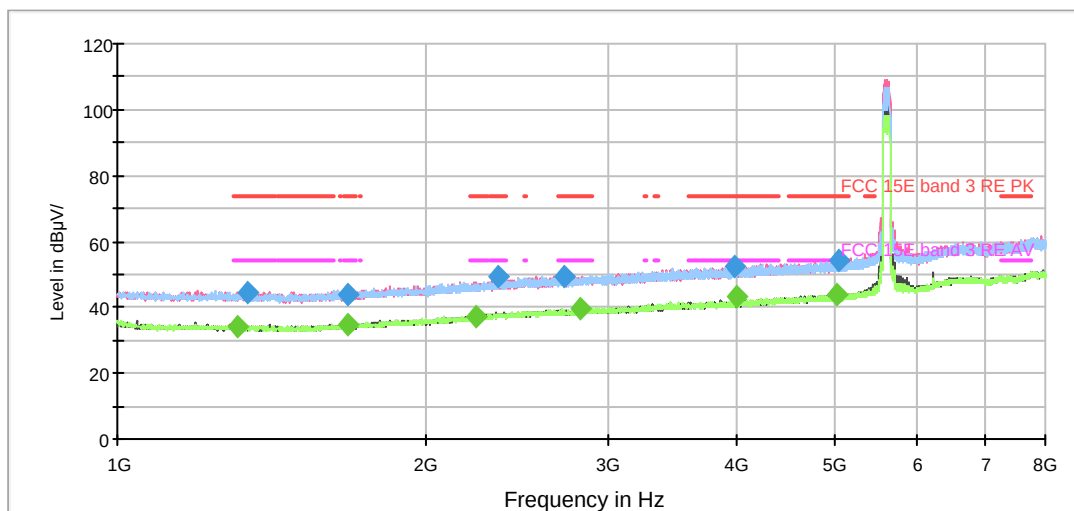


| Frequency<br>(MHz) | Average<br>(dBuV/m) | Height<br>(cm) | Polarization | Azimuth<br>(deg) | Correct<br>Factor<br>(dB) | Margin<br>(dB) | Limit<br>(dBuV/m) |
|--------------------|---------------------|----------------|--------------|------------------|---------------------------|----------------|-------------------|
| 1302.750000        | 34.2                | 200.0          | H            | 311.0            | -1.0                      | 19.8           | 54.0              |
| 1683.375000        | 34.7                | 200.0          | V            | 1.0              | 0.3                       | 19.3           | 54.0              |
| 2212.750000        | 37.3                | 200.0          | V            | 184.0            | 2.3                       | 16.7           | 54.0              |
| 2752.625000        | 39.8                | 100.0          | V            | 283.0            | 4.2                       | 14.2           | 54.0              |
| 3999.500000        | 43.9                | 100.0          | V            | 94.0             | 7.3                       | 10.1           | 54.0              |
| 5013.625000        | 44.1                | 100.0          | V            | 206.0            | 9.6                       | 9.9            | 54.0              |

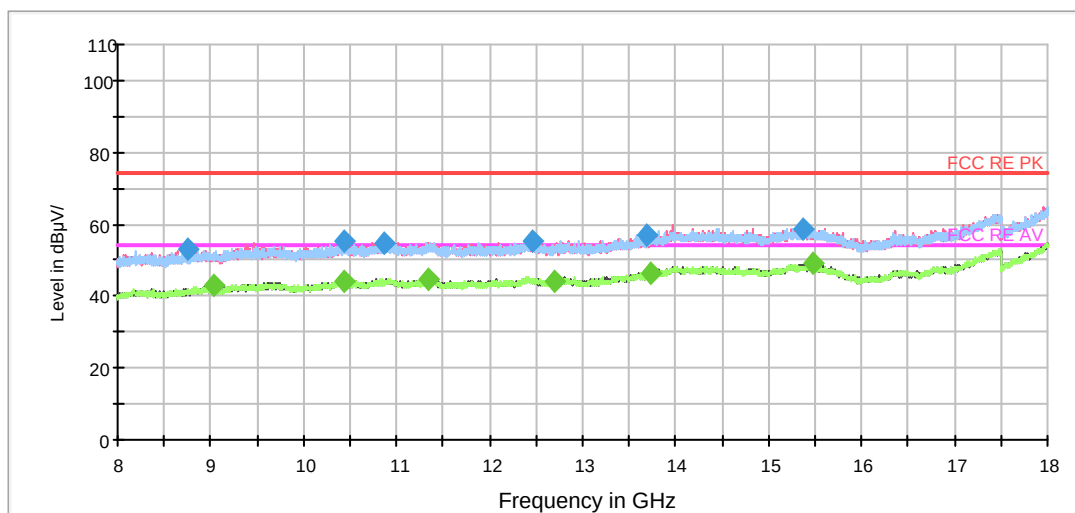
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**



## 802.11ac (HT80) CH122



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



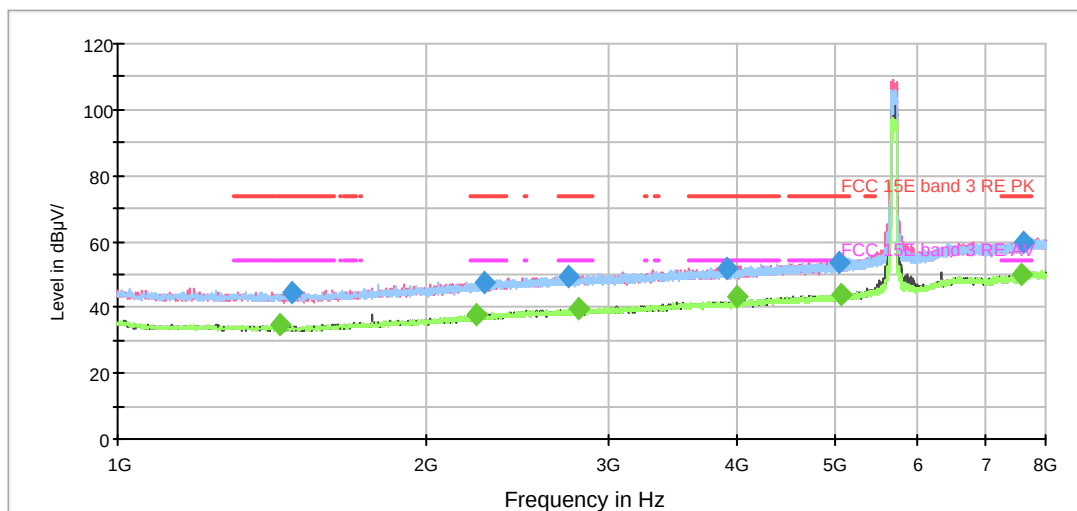
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1337.750000     | 44.7          | 200.0       | V            | 2.0           | -0.9                | 29.3        | 74.0           |
| 1677.250000     | 44.0          | 200.0       | V            | 277.0         | 0.3                 | 30.0        | 74.0           |
| 2351.000000     | 49.5          | 100.0       | H            | 101.0         | 3.0                 | 24.5        | 74.0           |
| 2719.375000     | 49.6          | 100.0       | H            | 67.0          | 4.1                 | 24.4        | 74.0           |
| 3980.250000     | 52.2          | 100.0       | H            | 234.0         | 7.2                 | 21.8        | 74.0           |
| 5029.375000     | 54.2          | 100.0       | H            | 4.0           | 9.7                 | 19.8        | 74.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

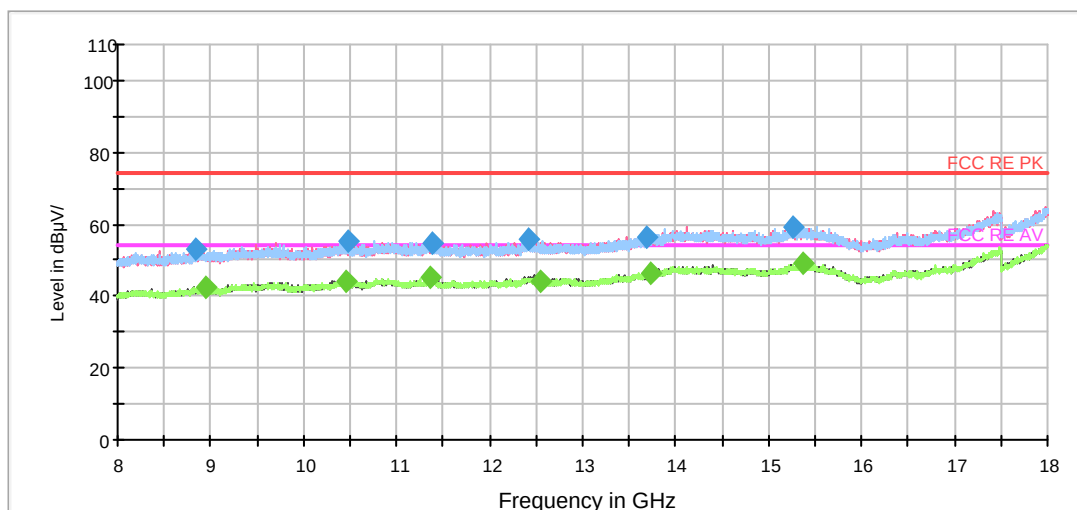
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1311.500000     | 34.2             | 100.0       | V            | 337.0         | -0.9                | 19.8        | 54.0           |
| 1672.875000     | 34.5             | 100.0       | V            | 257.0         | 0.3                 | 19.5        | 54.0           |
| 2231.125000     | 36.9             | 200.0       | V            | 4.0           | 2.4                 | 17.1        | 54.0           |
| 2820.000000     | 39.5             | 100.0       | H            | 40.0          | 4.4                 | 14.5        | 54.0           |
| 3999.500000     | 43.3             | 200.0       | V            | 156.0         | 7.3                 | 10.7        | 54.0           |
| 5018.875000     | 43.6             | 100.0       | H            | 10.0          | 9.7                 | 10.4        | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## 802.11ac (HT80) CH138



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz



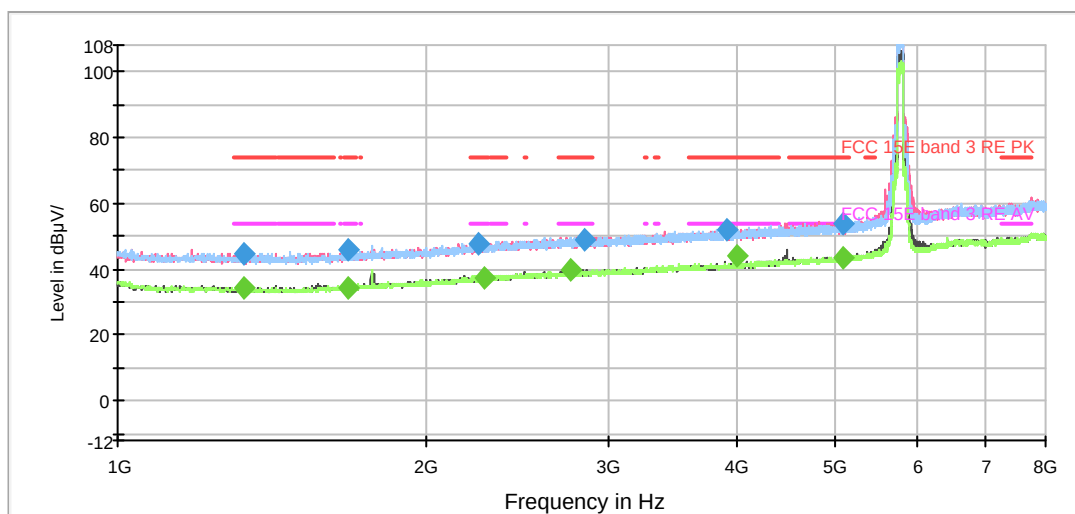
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1480.375000     | 44.6          | 100.0       | H            | 24.0          | -0.5                | 29.4        | 74.0           |
| 2273.125000     | 47.5          | 100.0       | V            | 358.0         | 2.7                 | 26.5        | 74.0           |
| 2748.250000     | 49.6          | 200.0       | V            | 91.0          | 4.1                 | 24.4        | 74.0           |
| 3910.250000     | 52.1          | 100.0       | V            | 355.0         | 7.1                 | 21.9        | 74.0           |
| 5047.750000     | 53.7          | 100.0       | V            | 0.0           | 9.8                 | 20.3        | 74.0           |
| 7626.375000     | 59.7          | 200.0       | V            | 91.0          | 16.6                | 14.3        | 74.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

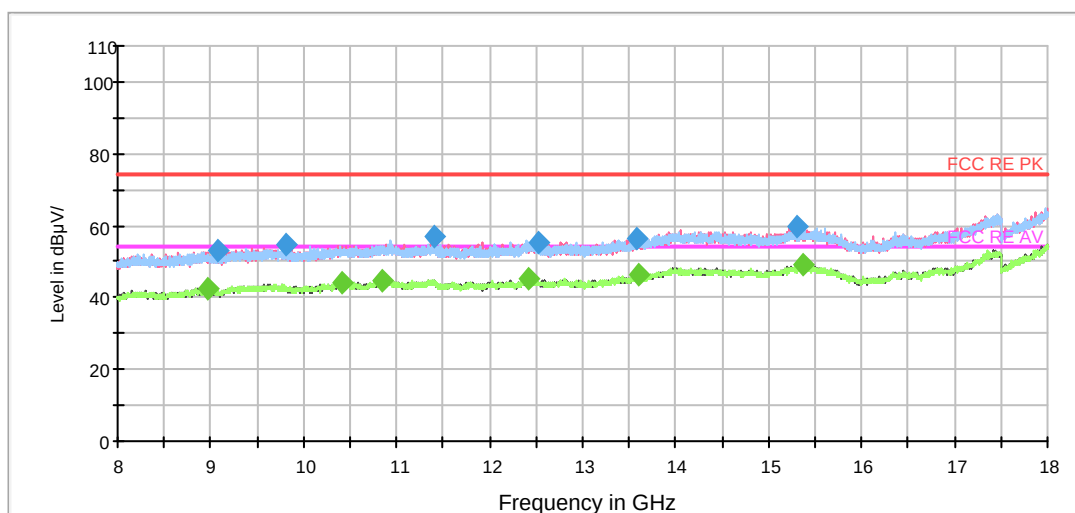
| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1438.375000     | 34.4             | 100.0       | H            | 0.0           | -0.6                | 19.6        | 54.0           |
| 2235.500000     | 37.5             | 200.0       | V            | 12.0          | 2.4                 | 16.5        | 54.0           |
| 2814.750000     | 39.4             | 100.0       | V            | 358.0         | 4.3                 | 14.6        | 54.0           |
| 3999.500000     | 43.4             | 200.0       | V            | 144.0         | 7.3                 | 10.6        | 54.0           |
| 5048.625000     | 44.0             | 100.0       | H            | 2.0           | 9.8                 | 10.0        | 54.0           |
| 7580.000000     | 49.7             | 100.0       | V            | 334.0         | 16.4                | 4.3         | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## 802.11ac (HT80) CH155



Radiates Emission from 1GHz to 8GHz  
Note: The signal beyond the limit is carrier.



Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1326.375000     | 44.4          | 200.0       | V            | 88.0          | -0.9                | 29.6        | 74.0           |
| 1677.250000     | 46.0          | 100.0       | V            | 288.0         | 0.3                 | 28.0        | 74.0           |
| 2246.875000     | 47.6          | 200.0       | V            | 44.0          | 2.4                 | 26.4        | 74.0           |
| 2853.250000     | 49.2          | 200.0       | H            | 355.0         | 4.4                 | 24.8        | 74.0           |
| 3923.375000     | 52.0          | 100.0       | H            | 0.0           | 7.1                 | 22.0        | 74.0           |
| 5073.125000     | 54.0          | 200.0       | H            | 348.0         | 9.8                 | 20.0        | 74.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 1324.625000     | 34.3             | 200.0       | V            | 2.0           | -0.9                | 19.7        | 54.0           |
| 1673.750000     | 34.3             | 100.0       | V            | 358.0         | 0.3                 | 19.7        | 54.0           |
| 2270.500000     | 37.4             | 100.0       | H            | 0.0           | 2.6                 | 16.6        | 54.0           |
| 2757.875000     | 39.7             | 100.0       | H            | 271.0         | 4.2                 | 14.3        | 54.0           |
| 3999.500000     | 44.1             | 100.0       | V            | 123.0         | 7.3                 | 9.9         | 54.0           |
| 5091.500000     | 43.6             | 200.0       | V            | 124.0         | 9.8                 | 10.4        | 54.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## 5.6. Conducted Emission

### Ambient condition

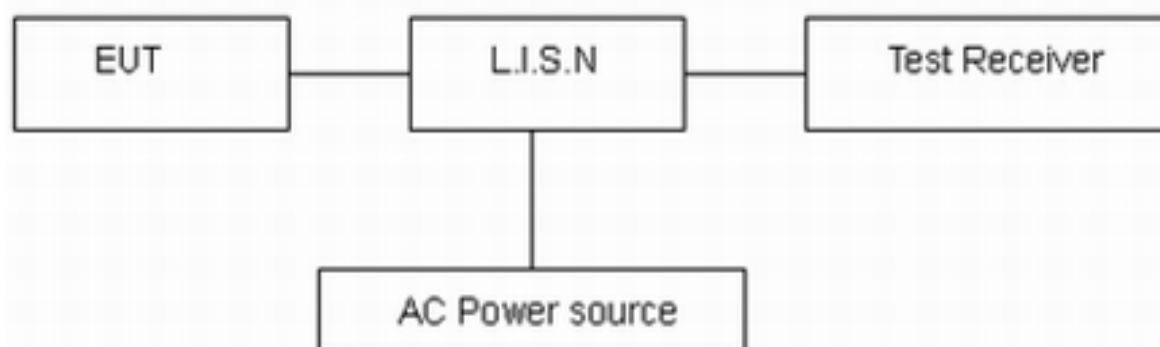
| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

### Methods of Measurement

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10-2013. Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.

The test is in transmitting mode.

### Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

### Limits

| Frequency<br>(MHz)                                | Conducted Limits(dBμV) |            |
|---------------------------------------------------|------------------------|------------|
|                                                   | Quasi-peak             | Average    |
| 0.15 - 0.5                                        | 66 to 56 *             | 56 to 46 * |
| 0.5 - 5                                           | 56                     | 46         |
| 5 - 30                                            | 60                     | 50         |
| *: Decreases with the logarithm of the frequency. |                        |            |

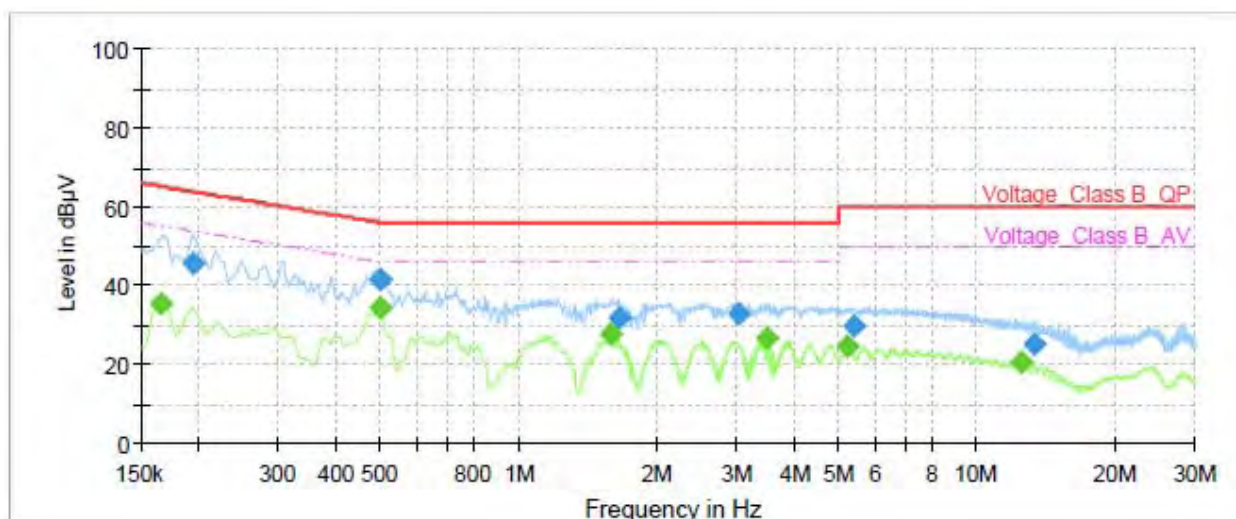
### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U = 2.69$  dB.



## Test Results:

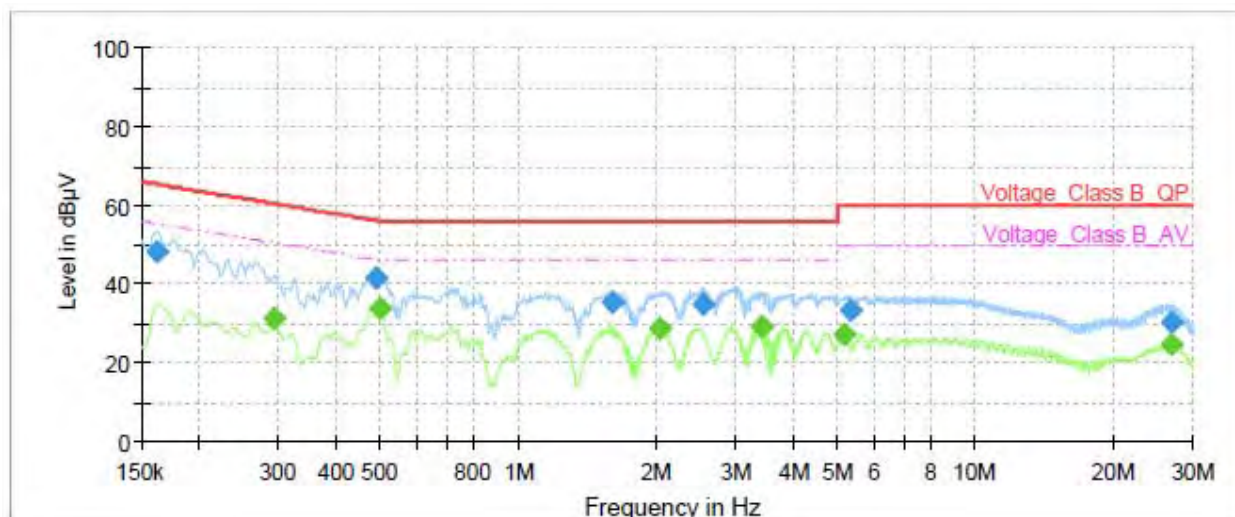
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, 802.11n HT40, Channel 62 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



| Frequency (MHz) | QuasiPeak (dBμV) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|--------|------------|
| 0.17            | ---              | 35.21          | 55.17        | 19.96       | 1000.0          | 9.000           | L1   | ON     | 19         |
| 0.20            | 45.74            | ---            | 63.82        | 18.08       | 1000.0          | 9.000           | L1   | ON     | 19         |
| 0.50            | 41.31            | ---            | 56.06        | 14.75       | 1000.0          | 9.000           | L1   | ON     | 19         |
| 0.50            | ---              | 34.44          | 46.02        | 11.58       | 1000.0          | 9.000           | L1   | ON     | 19         |
| 1.59            | ---              | 27.63          | 46.00        | 18.37       | 1000.0          | 9.000           | L1   | ON     | 19         |
| 1.66            | 31.64            | ---            | 56.00        | 24.36       | 1000.0          | 9.000           | L1   | ON     | 19         |
| 3.02            | 32.72            | ---            | 56.00        | 23.28       | 1000.0          | 9.000           | L1   | ON     | 19         |
| 3.48            | ---              | 26.81          | 46.00        | 19.19       | 1000.0          | 9.000           | L1   | ON     | 19         |
| 5.25            | ---              | 24.65          | 50.00        | 25.35       | 1000.0          | 9.000           | L1   | ON     | 19         |
| 5.41            | 29.69            | ---            | 60.00        | 30.31       | 1000.0          | 9.000           | L1   | ON     | 19         |
| 12.48           | ---              | 20.31          | 50.00        | 29.69       | 1000.0          | 9.000           | L1   | ON     | 19         |
| 13.31           | 25.35            | ---            | 60.00        | 34.65       | 1000.0          | 9.000           | L1   | ON     | 19         |

**Remark: Correct factor=cable loss + LISN factor**

L line Conducted Emission from 150 KHz to 30 MHz



| Frequency (MHz) | QuasiPeak (dBμV) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|--------|------------|
| 0.17            | 45.24            | ---            | 65.06        | 19.82       | 1000.0          | 9.000           | N    | ON     | 19         |
| 0.33            | ---              | 25.65          | 49.40        | 23.75       | 1000.0          | 9.000           | N    | ON     | 19         |
| 0.46            | ---              | 32.29          | 46.64        | 14.35       | 1000.0          | 9.000           | N    | ON     | 19         |
| 0.47            | 40.38            | ---            | 56.60        | 16.22       | 1000.0          | 9.000           | N    | ON     | 19         |
| 1.92            | ---              | 23.57          | 46.00        | 22.43       | 1000.0          | 9.000           | N    | ON     | 19         |
| 2.11            | 29.70            | ---            | 56.00        | 26.30       | 1000.0          | 9.000           | N    | ON     | 19         |
| 2.45            | 29.79            | ---            | 56.00        | 26.21       | 1000.0          | 9.000           | N    | ON     | 19         |
| 3.67            | ---              | 25.23          | 46.00        | 20.77       | 1000.0          | 9.000           | N    | ON     | 19         |
| 10.12           | ---              | 24.31          | 50.00        | 25.69       | 1000.0          | 9.000           | N    | ON     | 19         |
| 10.52           | 29.30            | ---            | 60.00        | 30.70       | 1000.0          | 9.000           | N    | ON     | 19         |
| 26.70           | ---              | 24.98          | 50.00        | 25.02       | 1000.0          | 9.000           | N    | ON     | 20         |
| 26.82           | 29.52            | ---            | 60.00        | 30.48       | 1000.0          | 9.000           | N    | ON     | 20         |

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz



## 6. Main Test Instruments

| Name                                 | Manufacturer | Type              | Serial Number      | Calibration Date | Expiration Date |
|--------------------------------------|--------------|-------------------|--------------------|------------------|-----------------|
| Spectrum Analyzer                    | R&S          | FSV40             | 15195-01-00        | 2019-05-19       | 2020-05-18      |
| EMI Test Receiver                    | R&S          | ESCI              | 100948             | 2019-05-19       | 2020-05-18      |
| Loop Antenna                         | SCHWARZBECK  | FMZB1519          | 1519-047           | 2019-09-26       | 2021-09-25      |
| TRILOG Broadband Antenna             | SCHWARZBECK  | VULB 9163         | 9163-201           | 2019-11-18       | 2021-11-17      |
| Double Ridged Waveguide Horn Antenna | R&S          | HF907             | 100126             | 2018-07-07       | 2020-07-06      |
| Standard Gain Horn                   | ETS-Lindgren | 3160-09           | 00102643           | 2018-06-20       | 2020-06-19      |
| Standard Gain Horn                   | STEATITE     | QSH-SL-26-40-K-15 | 16779              | 2017-07-20       | 2020-07-19      |
| Broadband Horn Antenna               | SCHWARZBECK  | BBHA 9120D        | 430                | 2018-07-07       | 2020-07-06      |
| EMI Test Receiver                    | R&S          | ESR               | 101667             | 2019-05-19       | 2020-05-18      |
| LISN                                 | R&S          | ENV216            | 101171             | 2019-12-16       | 2021-12-15      |
| Spectrum Analyzer                    | KEYSIGHT     | N9020A            | MY54420163         | 2019-12-16       | 2021-12-15      |
| RF Cable                             | Agilent      | SMA 15cm          | 0001               | 2019-06-14       | 2020-06-13      |
| TEMPERATURE CHAMBER                  | WEISS        | VT4002            | 58226119450010     | 2019-12-16       | 2020-12-15      |
| WLAN AP                              | Cisco        | Air-AP1262N-A-K9  | LDK102073 (FCC ID) | /                | /               |
| AV Power Meter                       | R&S          | NRP               | 104306             | 2019-05-19       | 2020-05-18      |
| Power Probe                          | R&S          | NRP-Z21           | 104799             | 2019-05-19       | 2020-05-18      |
| DC Power Supply                      | GWINSTEK     | GPS-3030D         | GEP882653          | 2019-05-19       | 2020-05-18      |
| Software                             | R&S          | EMC32             | 9.26.0             | /                | /               |

\*\*\*\*\*END OF REPORT \*\*\*\*\*