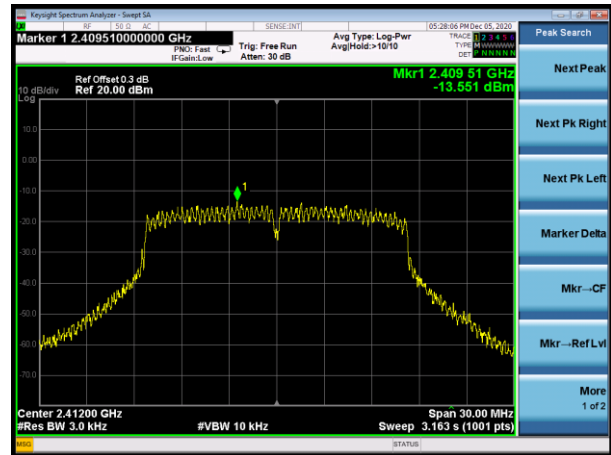
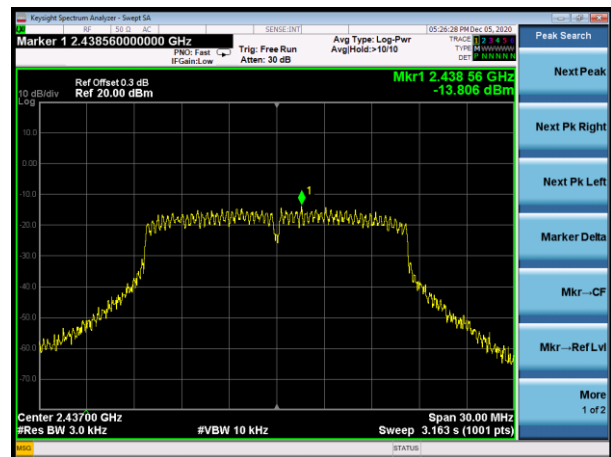


## Antenna 2:

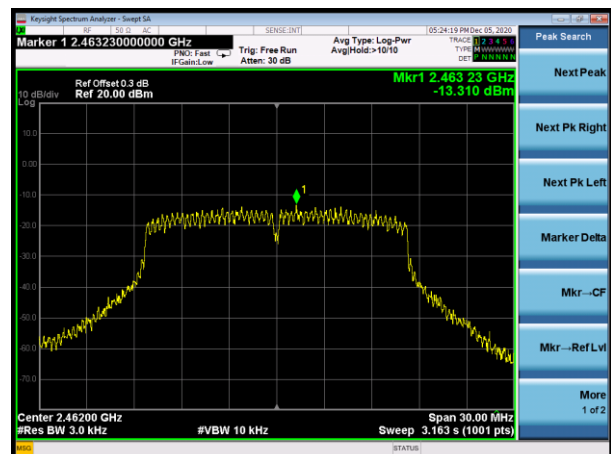
|         |  |         |  |
|---------|--|---------|--|
| 802.11b |  | 802.11g |  |
|---------|--|---------|--|



## Lowest channel

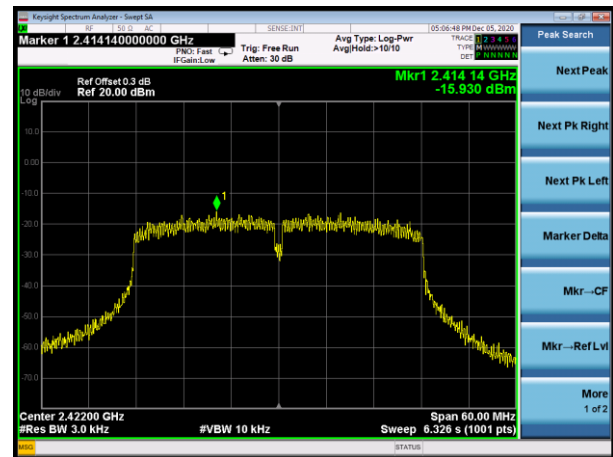
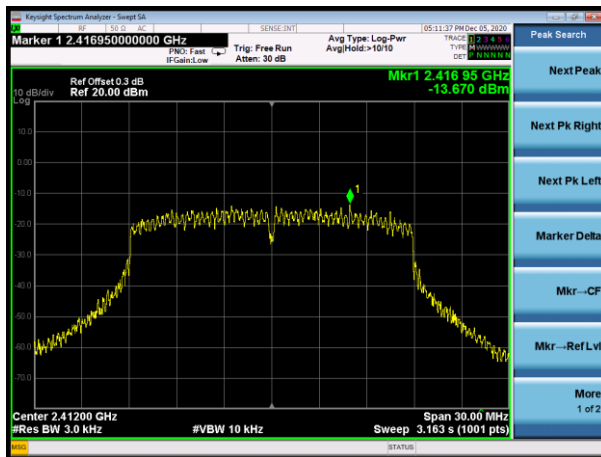


## Middle channel

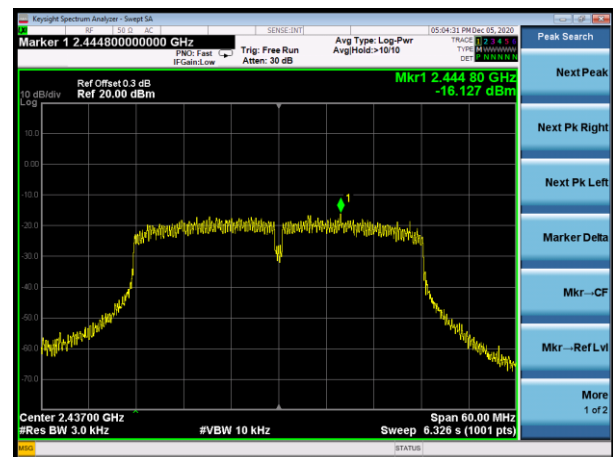
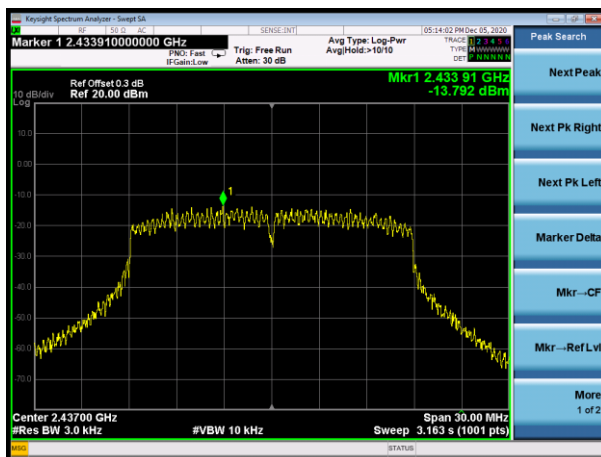


## Highest channel

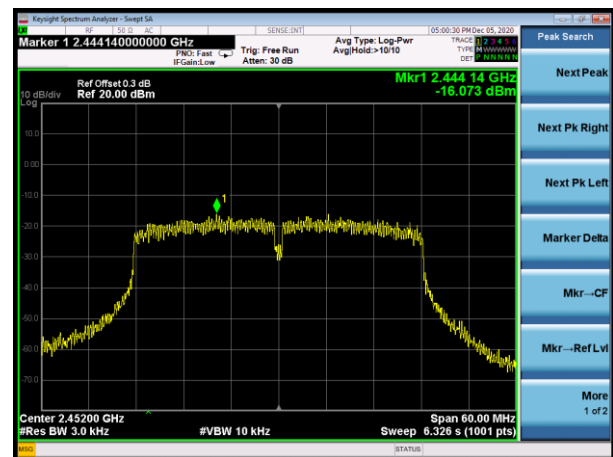
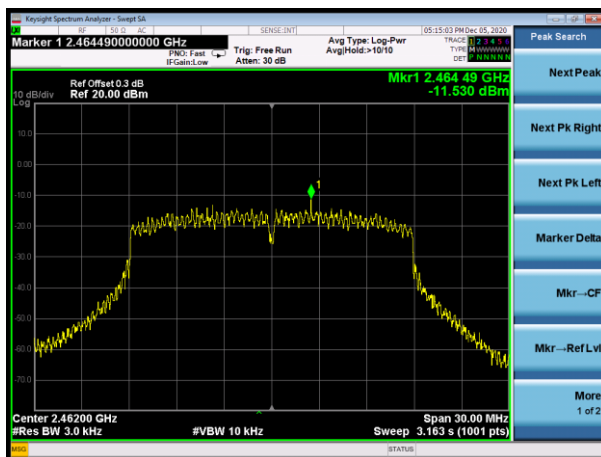
|               |               |
|---------------|---------------|
| 802.11n(HT20) | 802.11n(HT40) |
|---------------|---------------|



Lowest channel



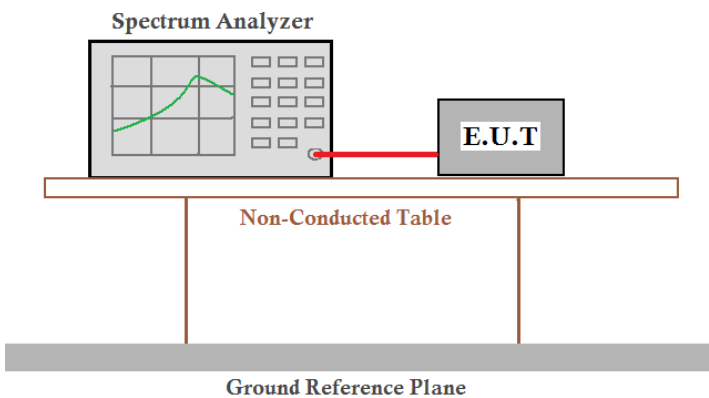
Middle channel



Highest channel

## 7.6 Band edges

### 7.6.1 Conducted Emission Method

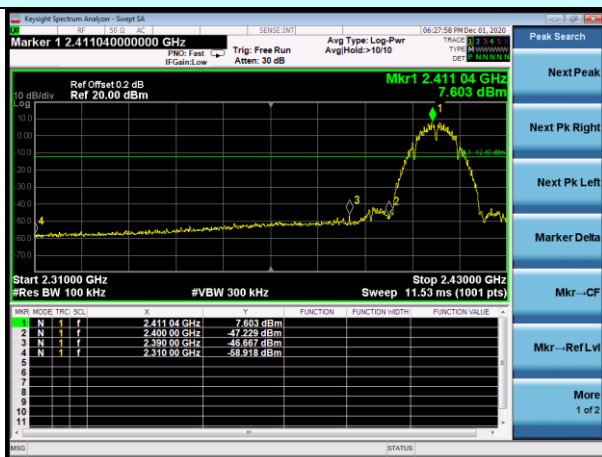
|                   |                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                             |
| Test Method:      | KDB558074 D01 15.247 Meas Guidance v05or02                                                                                                                                                                                                                                                                                                                                                  |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.     |
| Test setup:       |  <p>The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                            |
| Test mode:        | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                                                                                            |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                        |

Test plot as follows:

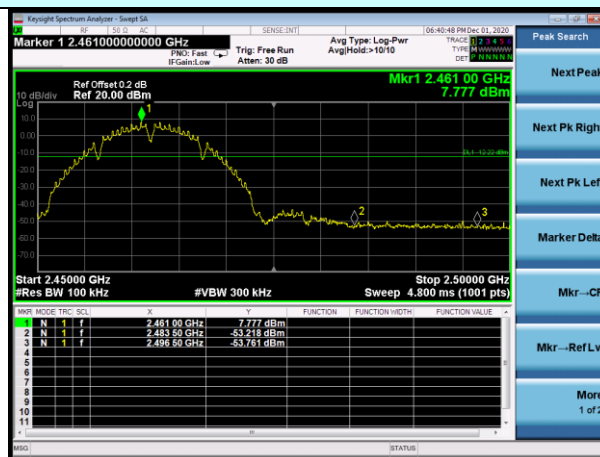
Antenna 1:

Test mode:

802.11b



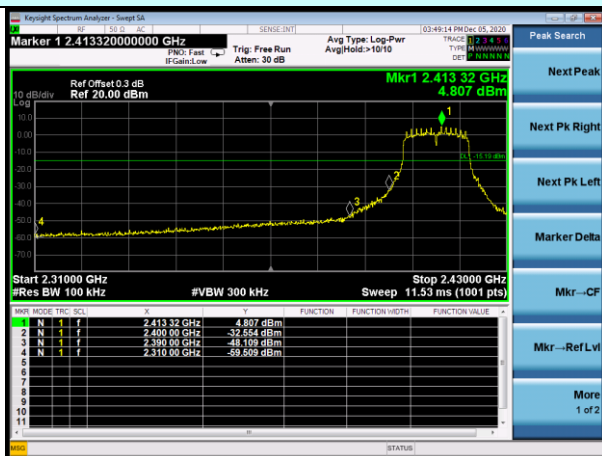
Lowest channel



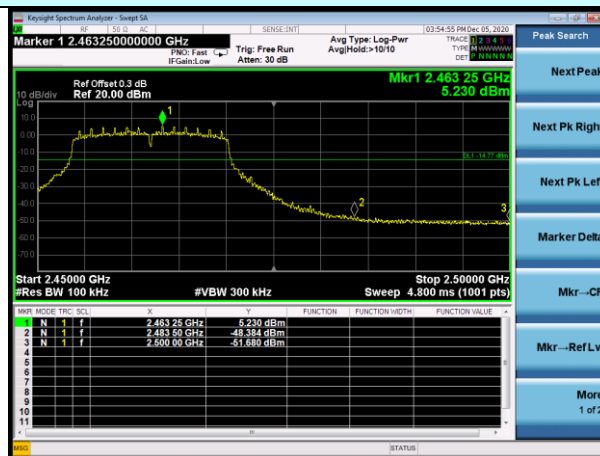
Highest channel

Test mode:

802.11g



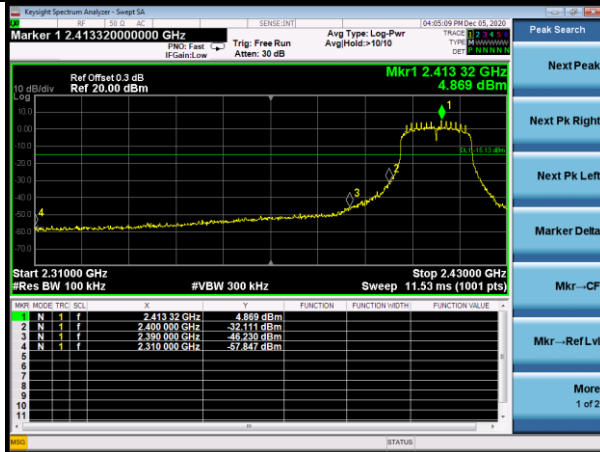
Lowest channel



Highest channel

Test mode:

802.11n(HT20)



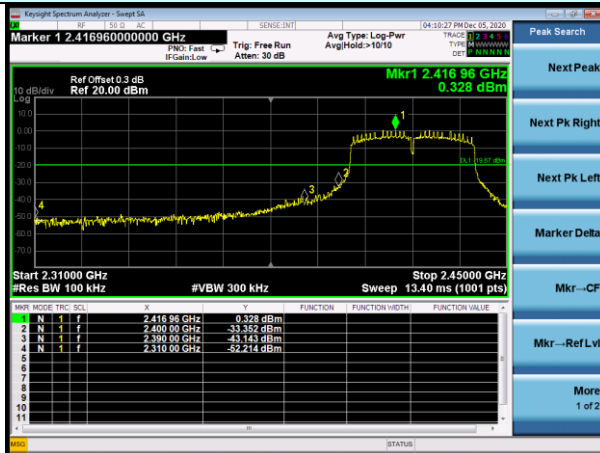
Lowest channel



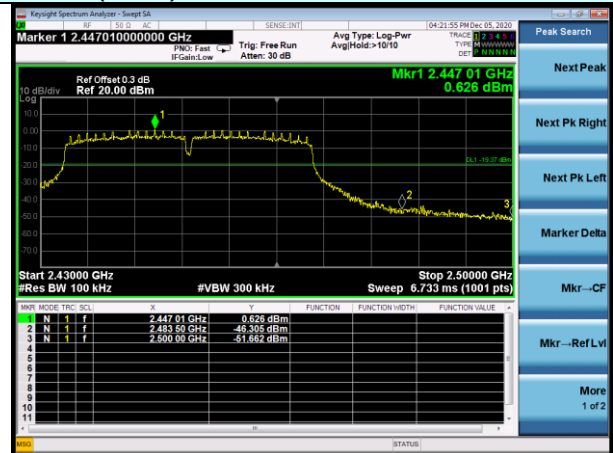
Highest channel

Test mode:

802.11n(HT40)



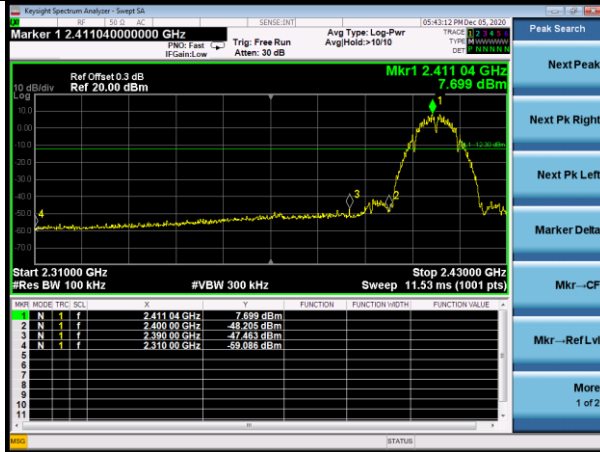
Lowest channel



Highest channel

## Antenna 2:

### Test mode: 802.11b

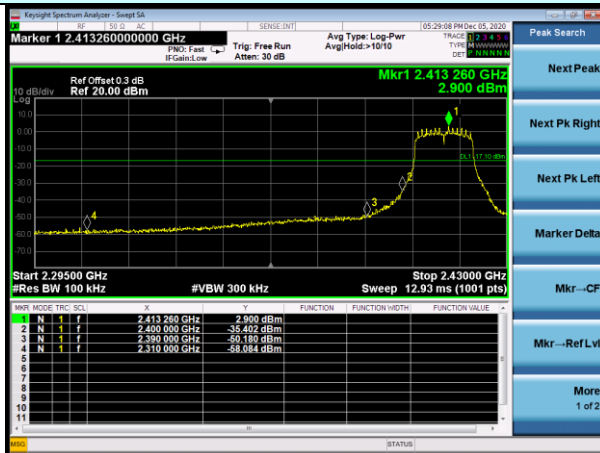


Lowest channel

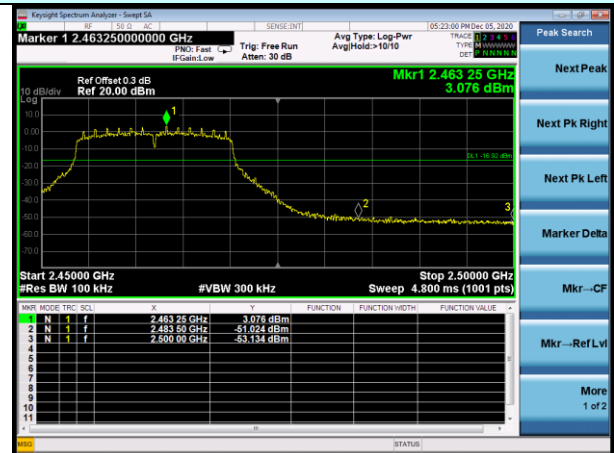


Highest channel

### Test mode: 802.11g



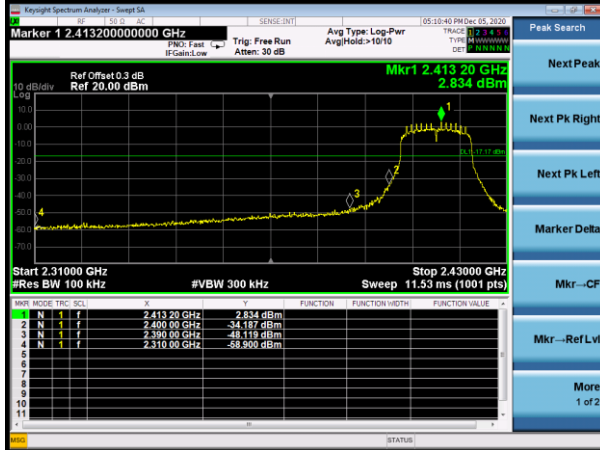
Lowest channel



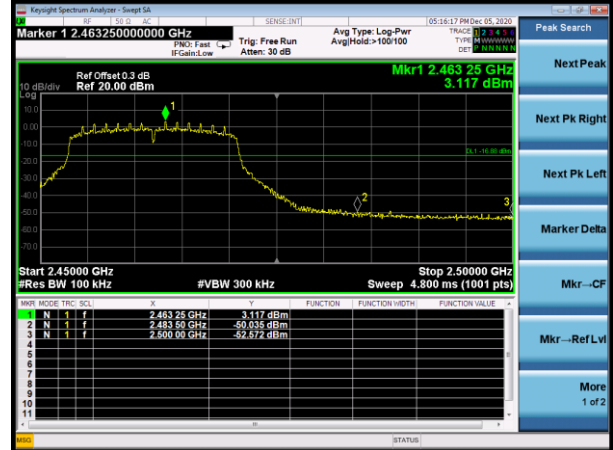
Highest channel

Test mode:

802.11n(HT20)



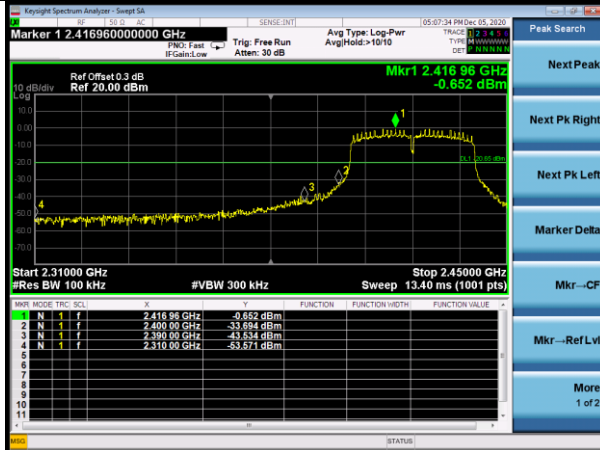
Lowest channel



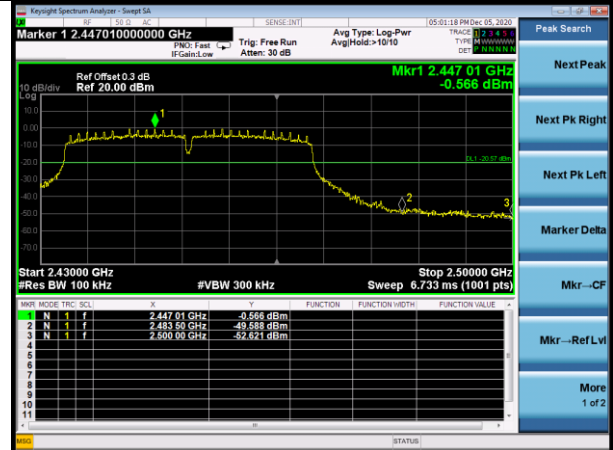
Highest channel

Test mode:

802.11n(HT40)

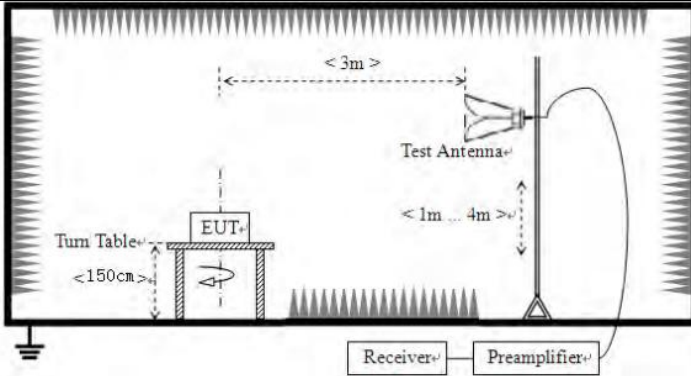


Lowest channel



Highest channel

## 7.6.2 Radiated Emission Method

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |                    |      |         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|------|---------|
| Test Requirement:     | FCC Part15 C Section 15.209 and 15.205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                    |      |         |
| Test Method:          | ANSI C63.10: 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                    |      |         |
| Test Frequency Range: | All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                    |      |         |
| Test site:            | Measurement Distance: 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                    |      |         |
| Receiver setup:       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Detector | RBW                | VBW  | Value   |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Peak     | 1MHz               | 3MHz | Peak    |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Average  | 1MHz               | 3MHz | Average |
| Limit:                | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          | Limit (dBuV/m @3m) |      | Value   |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          | 54.00              |      | Average |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | 74.00              |      | Peak    |
| Test setup:           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                    |      |         |
| Test Procedure:       | <ol style="list-style-type: none"><li>1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li><li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li><li>7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.</li></ol> |          |                    |      |         |
| Test Instruments:     | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                    |      |         |
| Test mode:            | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                    |      |         |
| Test results:         | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                    |      |         |

**Measurement data:**

All antennas have test, only the worst case ANT 1 report.

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 52.82             | 27.59                 | 5.38            | 34.01                    | 51.78          | 74.00               | -22.22          | Horizontal   |
| 2400.00         | 61.64             | 27.58                 | 5.39            | 34.01                    | 60.60          | 74.00               | -13.40          | Horizontal   |
| 2390.00         | 54.66             | 27.59                 | 5.38            | 34.01                    | 53.62          | 74.00               | -20.38          | Vertical     |
| 2400.00         | 63.65             | 27.58                 | 5.39            | 34.01                    | 62.61          | 74.00               | -11.39          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 39.49             | 27.59                 | 5.38            | 34.01                    | 38.45          | 54.00               | -15.55          | Horizontal   |
| 2400.00         | 47.89             | 27.58                 | 5.39            | 34.01                    | 46.85          | 54.00               | -7.15           | Horizontal   |
| 2390.00         | 41.06             | 27.59                 | 5.38            | 34.01                    | 40.02          | 54.00               | -13.98          | Vertical     |
| 2400.00         | 49.08             | 27.58                 | 5.39            | 34.01                    | 48.04          | 54.00               | -5.96           | Vertical     |

|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 53.33             | 27.53                 | 5.47            | 33.92                    | 52.41          | 74.00               | -21.59          | Horizontal   |
| 2500.00         | 49.35             | 27.55                 | 5.49            | 29.93                    | 52.46          | 74.00               | -21.54          | Horizontal   |
| 2483.50         | 55.68             | 27.53                 | 5.47            | 33.92                    | 54.76          | 74.00               | -19.24          | Vertical     |
| 2500.00         | 52.01             | 27.55                 | 5.49            | 29.93                    | 55.12          | 74.00               | -18.88          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 39.76             | 27.53                 | 5.47            | 33.92                    | 38.84          | 54.00               | -15.16          | Horizontal   |
| 2500.00         | 35.94             | 27.55                 | 5.49            | 29.93                    | 39.05          | 54.00               | -14.95          | Horizontal   |
| 2483.50         | 41.97             | 27.53                 | 5.47            | 33.92                    | 41.05          | 54.00               | -12.95          | Vertical     |
| 2500.00         | 37.65             | 27.55                 | 5.49            | 29.93                    | 40.76          | 54.00               | -13.24          | Vertical     |

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 51.14             | 27.59                 | 5.38            | 34.01                    | 50.10          | 74.00               | -23.90          | Horizontal   |
| 2400.00         | 60.02             | 27.58                 | 5.39            | 34.01                    | 58.98          | 74.00               | -15.02          | Horizontal   |
| 2390.00         | 53.18             | 27.59                 | 5.38            | 34.01                    | 52.14          | 74.00               | -21.86          | Vertical     |
| 2400.00         | 61.97             | 27.58                 | 5.39            | 34.01                    | 60.93          | 74.00               | -13.07          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 38.56             | 27.59                 | 5.38            | 34.01                    | 37.52          | 54.00               | -16.48          | Horizontal   |
| 2400.00         | 47.08             | 27.58                 | 5.39            | 34.01                    | 46.04          | 54.00               | -7.96           | Horizontal   |
| 2390.00         | 40.10             | 27.59                 | 5.38            | 34.01                    | 39.06          | 54.00               | -14.95          | Vertical     |
| 2400.00         | 47.39             | 27.58                 | 5.39            | 34.01                    | 46.35          | 54.00               | -7.65           | Vertical     |

|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 51.22             | 27.53                 | 5.47            | 33.92                    | 50.30          | 74.00               | -23.70          | Horizontal   |
| 2500.00         | 47.63             | 27.55                 | 5.49            | 29.93                    | 50.74          | 74.00               | -23.26          | Horizontal   |
| 2483.50         | 53.28             | 27.53                 | 5.47            | 33.92                    | 52.36          | 74.00               | -21.64          | Vertical     |
| 2500.00         | 50.02             | 27.55                 | 5.49            | 29.93                    | 53.13          | 74.00               | -20.88          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 38.42             | 27.53                 | 5.47            | 33.92                    | 37.50          | 54.00               | -16.50          | Horizontal   |
| 2500.00         | 34.83             | 27.55                 | 5.49            | 29.93                    | 37.94          | 54.00               | -16.06          | Horizontal   |
| 2483.50         | 40.46             | 27.53                 | 5.47            | 33.92                    | 39.54          | 54.00               | -14.46          | Vertical     |
| 2500.00         | 36.53             | 27.55                 | 5.49            | 29.93                    | 39.64          | 54.00               | -14.36          | Vertical     |

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT20) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 51.06             | 27.59                 | 5.38            | 34.01                    | 50.02          | 74.00               | -23.98          | Horizontal   |
| 2400.00         | 59.92             | 27.58                 | 5.39            | 34.01                    | 58.88          | 74.00               | -15.12          | Horizontal   |
| 2390.00         | 53.10             | 27.59                 | 5.38            | 34.01                    | 52.06          | 74.00               | -21.94          | Vertical     |
| 2400.00         | 61.84             | 27.58                 | 5.39            | 34.01                    | 60.80          | 74.00               | -13.20          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 38.50             | 27.59                 | 5.38            | 34.01                    | 37.46          | 54.00               | -16.54          | Horizontal   |
| 2400.00         | 47.01             | 27.58                 | 5.39            | 34.01                    | 45.97          | 54.00               | -8.03           | Horizontal   |
| 2390.00         | 40.04             | 27.59                 | 5.38            | 34.01                    | 39.00          | 54.00               | -15.01          | Vertical     |
| 2400.00         | 47.32             | 27.58                 | 5.39            | 34.01                    | 46.28          | 54.00               | -7.72           | Vertical     |

|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT20) | Test channel: | Highest |
|------------|---------------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 51.10             | 27.53                 | 5.47            | 33.92                    | 50.18          | 74.00               | -23.82          | Horizontal   |
| 2500.00         | 47.55             | 27.55                 | 5.49            | 29.93                    | 50.66          | 74.00               | -23.34          | Horizontal   |
| 2483.50         | 53.15             | 27.53                 | 5.47            | 33.92                    | 52.23          | 74.00               | -21.77          | Vertical     |
| 2500.00         | 49.92             | 27.55                 | 5.49            | 29.93                    | 53.03          | 74.00               | -20.98          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 38.35             | 27.53                 | 5.47            | 33.92                    | 37.43          | 54.00               | -16.57          | Horizontal   |
| 2500.00         | 34.78             | 27.55                 | 5.49            | 29.93                    | 37.89          | 54.00               | -16.11          | Horizontal   |
| 2483.50         | 40.38             | 27.53                 | 5.47            | 33.92                    | 39.46          | 54.00               | -14.54          | Vertical     |
| 2500.00         | 36.47             | 27.55                 | 5.49            | 29.93                    | 39.58          | 54.00               | -14.42          | Vertical     |

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT40) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 50.35             | 27.59                 | 5.38            | 34.01                    | 49.31          | 74.00               | -24.69          | Horizontal   |
| 2400.00         | 59.00             | 27.58                 | 5.39            | 34.01                    | 57.96          | 74.00               | -16.04          | Horizontal   |
| 2390.00         | 52.42             | 27.59                 | 5.38            | 34.01                    | 51.38          | 74.00               | -22.62          | Vertical     |
| 2400.00         | 60.78             | 27.58                 | 5.39            | 34.01                    | 59.74          | 74.00               | -14.26          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 38.10             | 27.59                 | 5.38            | 34.01                    | 37.06          | 54.00               | -16.94          | Horizontal   |
| 2400.00         | 46.59             | 27.58                 | 5.39            | 34.01                    | 45.55          | 54.00               | -8.45           | Horizontal   |
| 2390.00         | 39.53             | 27.59                 | 5.38            | 34.01                    | 38.49          | 54.00               | -15.52          | Vertical     |
| 2400.00         | 46.69             | 27.58                 | 5.39            | 34.01                    | 45.65          | 54.00               | -8.35           | Vertical     |

|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT40) | Test channel: | Highest |
|------------|---------------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 50.04             | 27.53                 | 5.47            | 33.92                    | 49.12          | 74.00               | -24.88          | Horizontal   |
| 2500.00         | 46.78             | 27.55                 | 5.49            | 29.93                    | 49.89          | 74.00               | -24.11          | Horizontal   |
| 2483.50         | 51.92             | 27.53                 | 5.47            | 33.92                    | 51.00          | 74.00               | -23.00          | Vertical     |
| 2500.00         | 49.02             | 27.55                 | 5.49            | 29.93                    | 52.13          | 74.00               | -21.88          | Vertical     |

**Average value:**

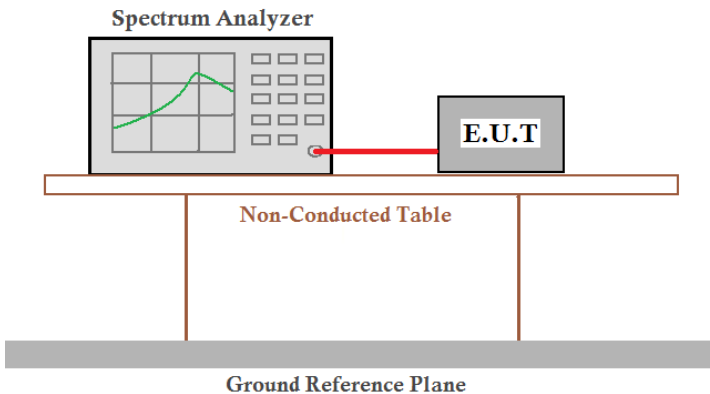
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 37.76             | 27.53                 | 5.47            | 33.92                    | 36.84          | 54.00               | -17.16          | Horizontal   |
| 2500.00         | 34.36             | 27.55                 | 5.49            | 29.93                    | 37.47          | 54.00               | -16.53          | Horizontal   |
| 2483.50         | 39.76             | 27.53                 | 5.47            | 33.92                    | 38.84          | 54.00               | -15.16          | Vertical     |
| 2500.00         | 35.99             | 27.55                 | 5.49            | 29.93                    | 39.10          | 54.00               | -14.90          | Vertical     |

**Remarks:**

1. Only the worst case Main Antenna test data.
2. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 7.7 Spurious Emission

### 7.7.1 Conducted Emission Method

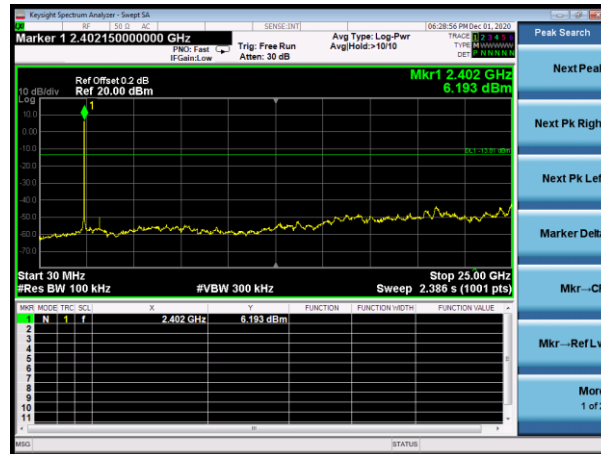
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                                                              |
| Test Method:      | KDB558074 D01 15.247 Meas Guidance v05or02                                                                                                                                                                                                                                                                                                                                                                                   |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.                                      |
| Test setup:       |  <p>The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane, represented by a thick grey bar.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                                                             |
| Test mode:        | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                                                                                                                             |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                         |

Test plot as follows:

Antenna 1:

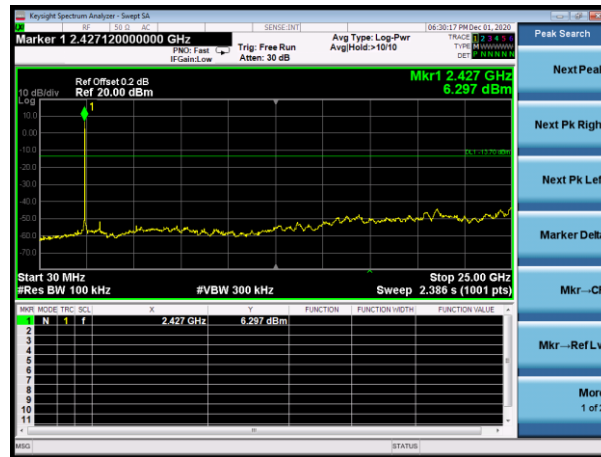
802.11b

Lowest channel



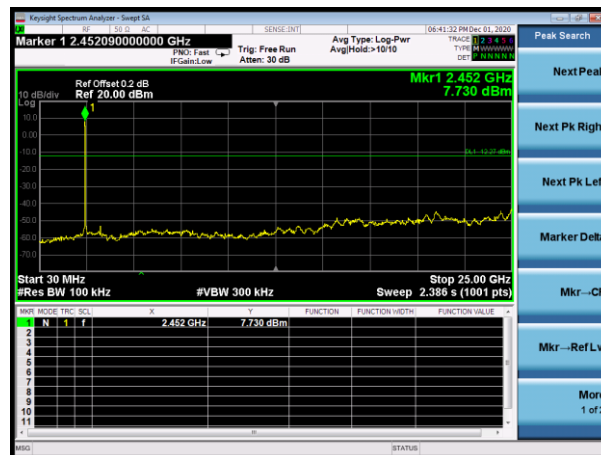
30MHz~25GHz

Middle channel



30MHz~25GHz

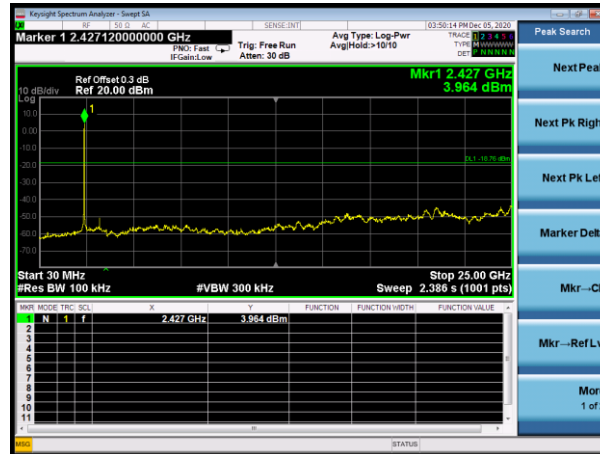
Highest channel



30MHz~25GHz

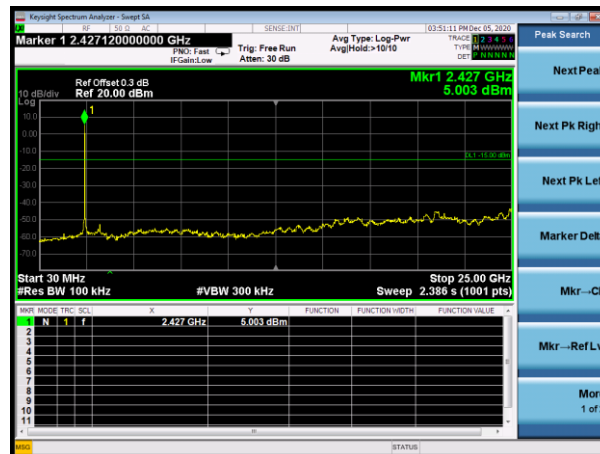
802.11g

Lowest channel



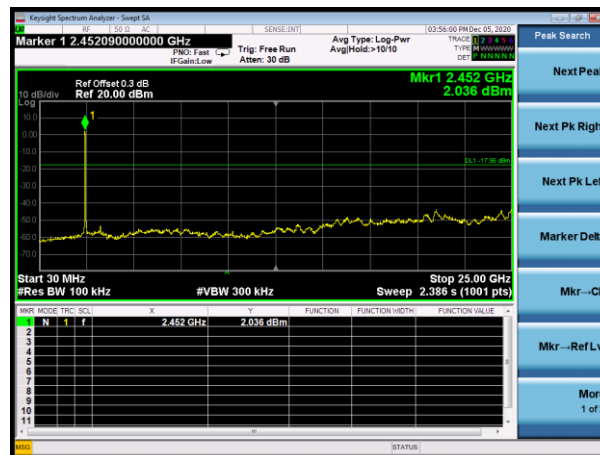
30MHz~25GHz

Middle channel



30MHz~25GHz

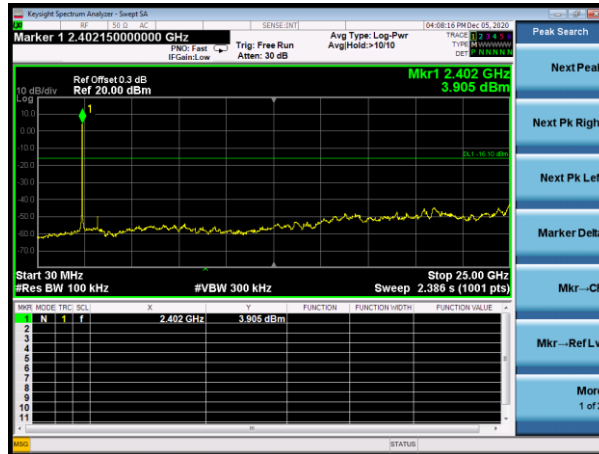
Highest channel



30MHz~25GHz

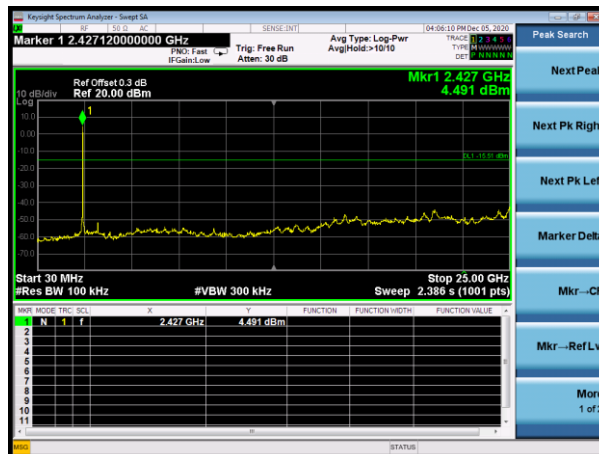
## 802.11n(HT20)

Lowest channel



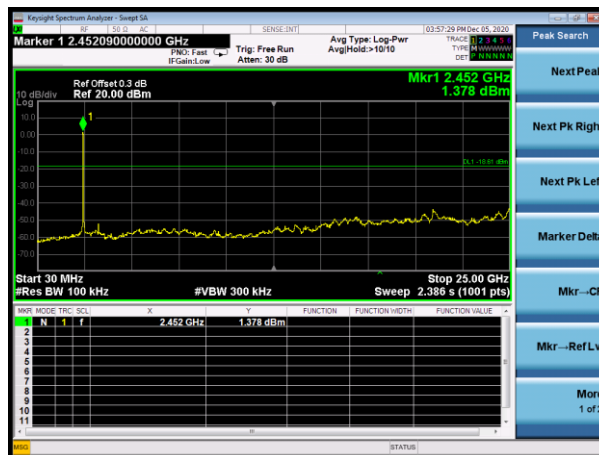
30MHz~25GHz

Middle channel



30MHz~25GHz

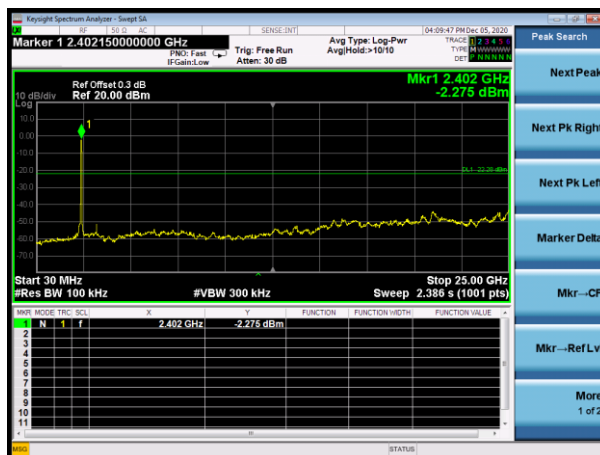
Highest channel



30MHz~25GHz

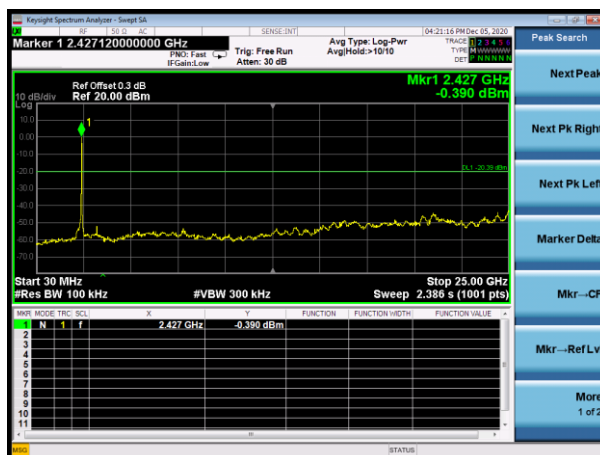
## 802.11n(HT40)

Lowest channel



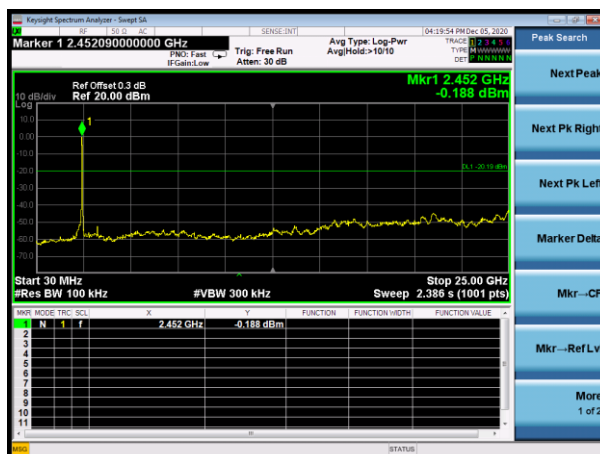
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

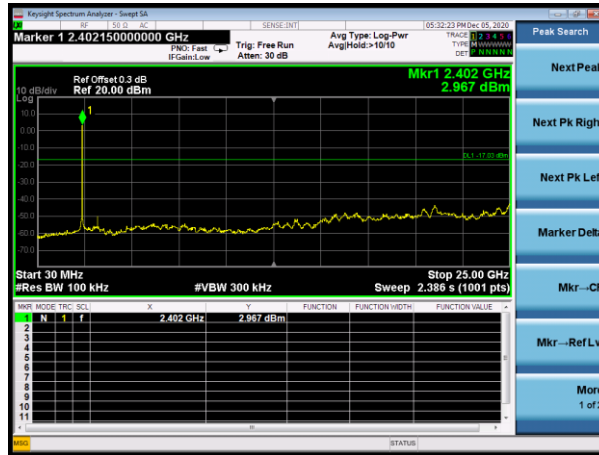


30MHz~25GHz

## Antenna 2:

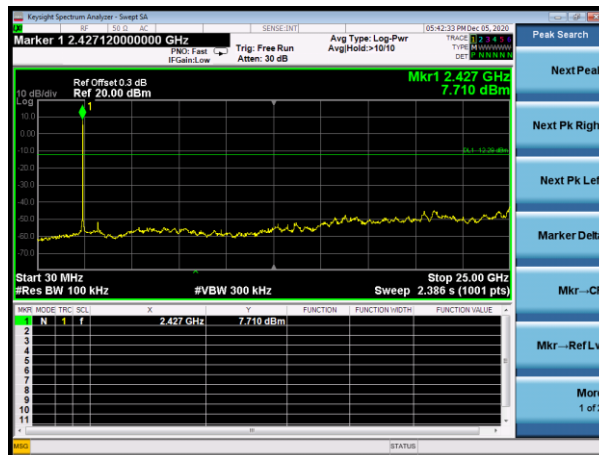
802.11b

Lowest channel



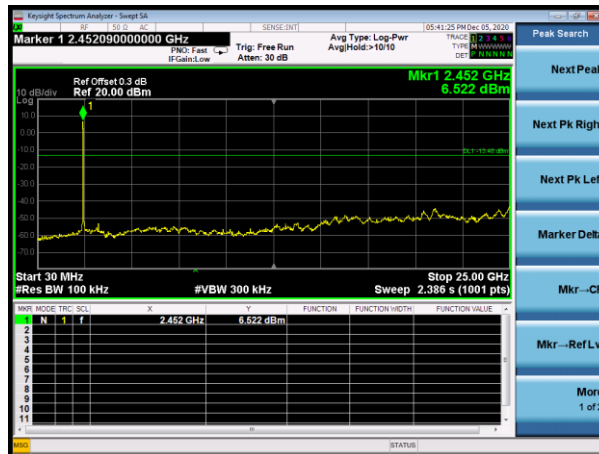
30MHz~25GHz

Middle channel



30MHz~25GHz

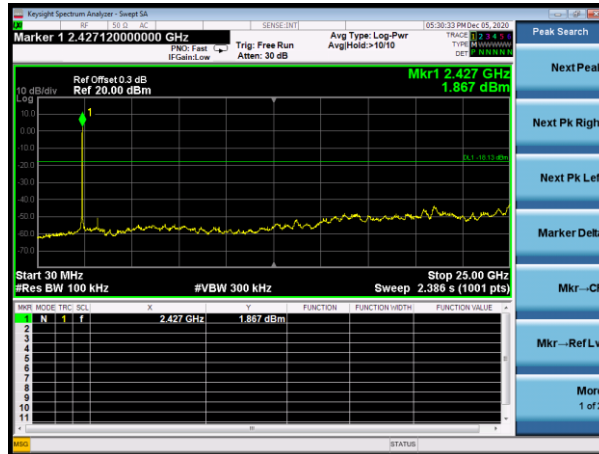
Highest channel



30MHz~25GHz

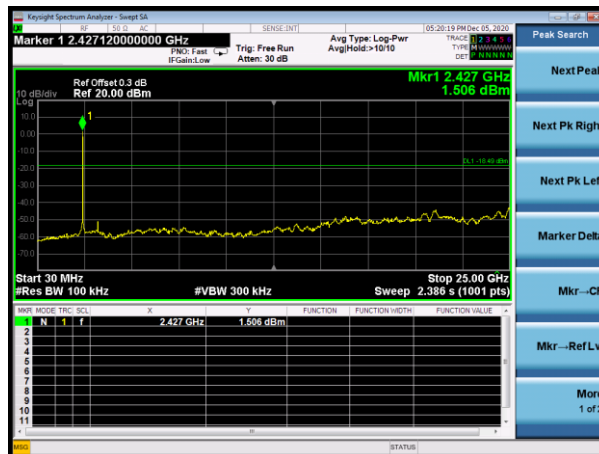
802.11g

Lowest channel



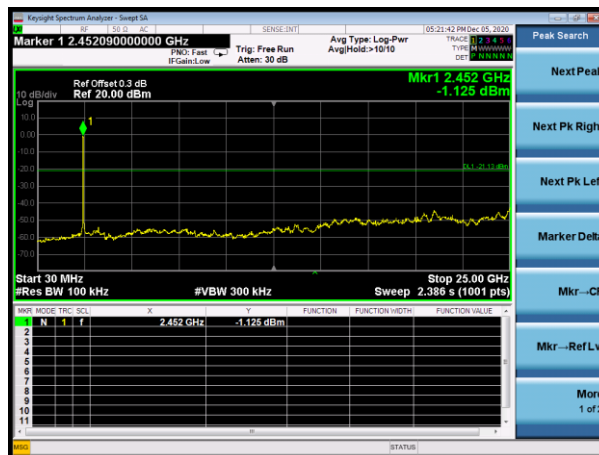
30MHz~25GHz

Middle channel



30MHz~25GHz

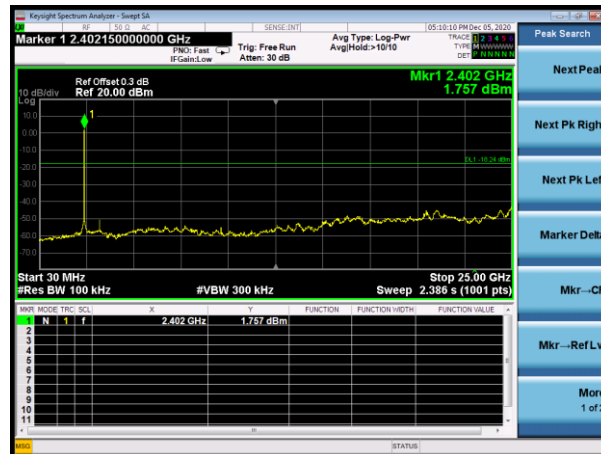
Highest channel



30MHz~25GHz

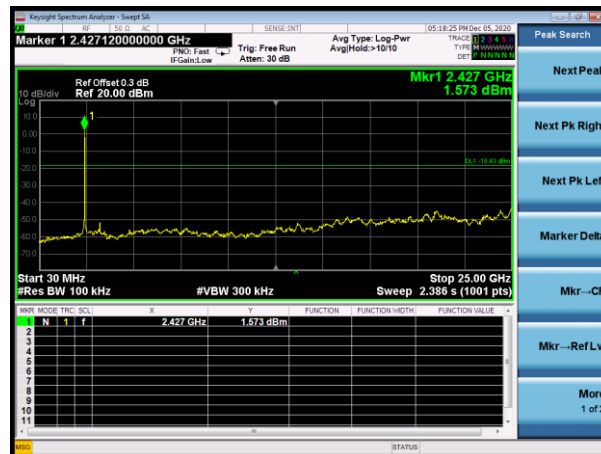
## 802.11n(HT20)

Lowest channel



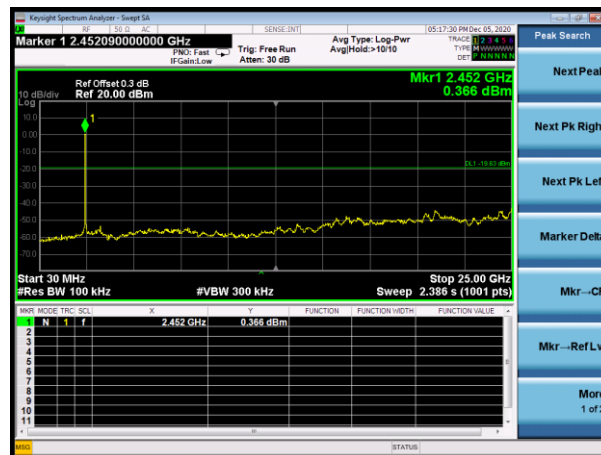
30MHz~25GHz

Middle channel



30MHz~25GHz

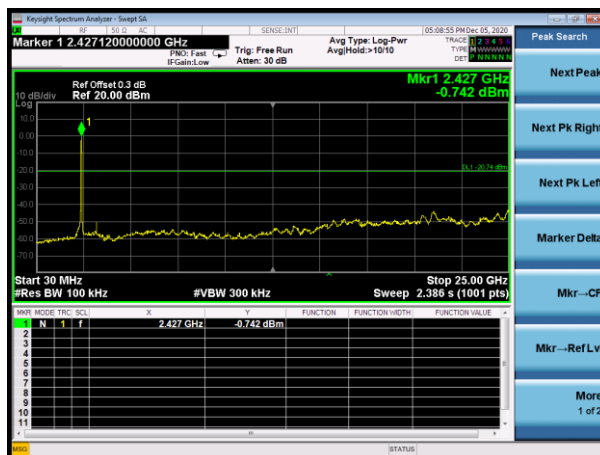
Highest channel



30MHz~25GHz

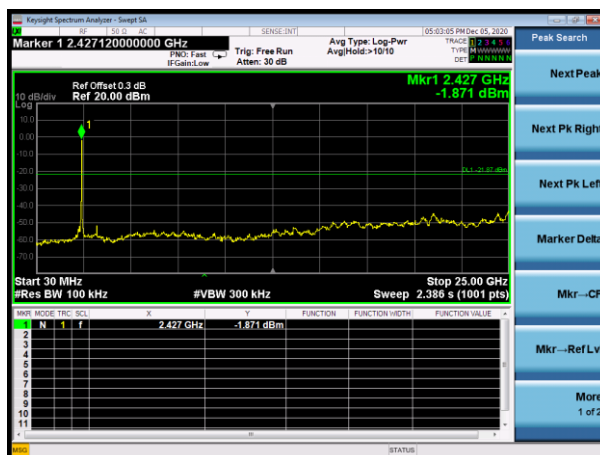
## 802.11n(HT40)

Lowest channel



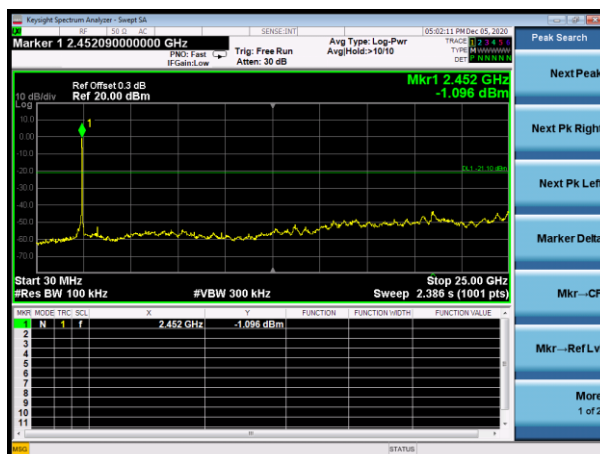
30MHz~25GHz

Middle channel



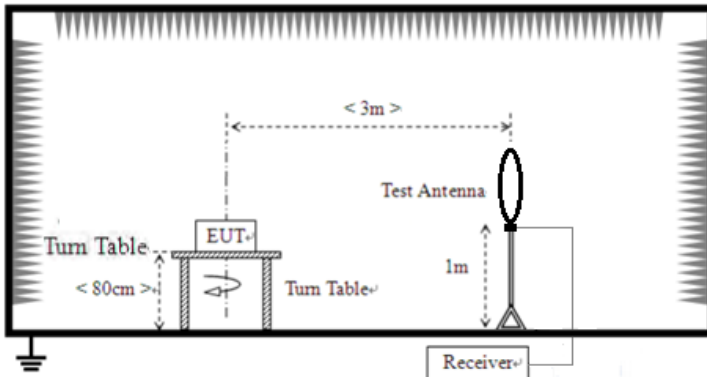
30MHz~25GHz

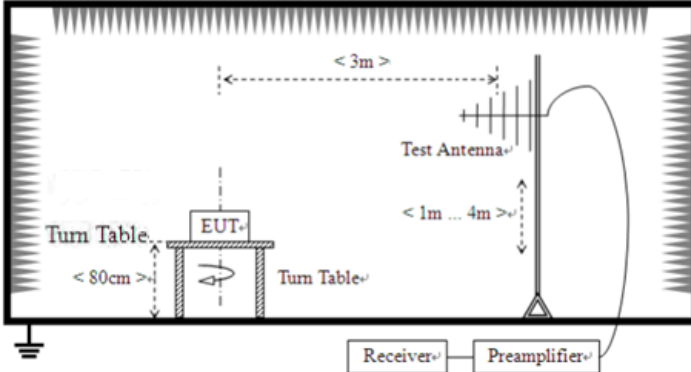
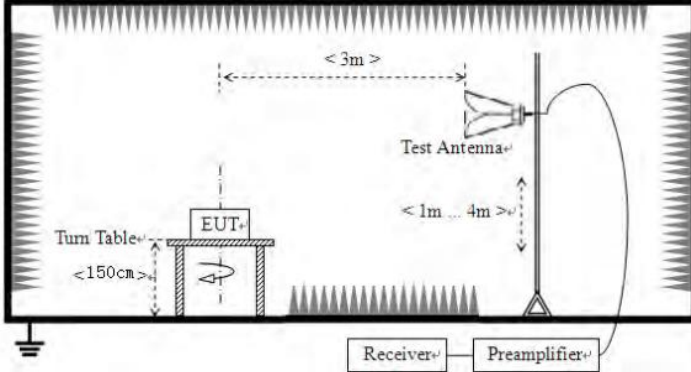
Highest channel



30MHz~25GHz

## 7.7.2 Radiated Emission Method

|                       |                                                                                                 |              |        |         |                      |
|-----------------------|-------------------------------------------------------------------------------------------------|--------------|--------|---------|----------------------|
| Test Requirement:     | FCC Part15 C Section 15.209                                                                     |              |        |         |                      |
| Test Method:          | ANSI C63.10: 2013                                                                               |              |        |         |                      |
| Test Frequency Range: | 9kHz to 25GHz                                                                                   |              |        |         |                      |
| Test site:            | Measurement Distance: 3m                                                                        |              |        |         |                      |
| Receiver setup:       | Frequency                                                                                       | Detector     | RBW    | VBW     | Value                |
|                       | 9KHz-150KHz                                                                                     | Quasi-peak   | 200Hz  | 600Hz   | Quasi-peak           |
|                       | 150KHz-30MHz                                                                                    | Quasi-peak   | 9KHz   | 30KHz   | Quasi-peak           |
|                       | 30MHz-1GHz                                                                                      | Quasi-peak   | 120KHz | 300KHz  | Quasi-peak           |
|                       | Above 1GHz                                                                                      | Peak         | 1MHz   | 3MHz    | Peak                 |
|                       |                                                                                                 | Peak         | 1MHz   | 10Hz    | Average              |
| Limit:                | Frequency                                                                                       | Limit (uV/m) |        | Value   | Measurement Distance |
|                       | 0.009MHz-0.490MHz                                                                               | 2400/F(KHz)  |        | QP      | 300m                 |
|                       | 0.490MHz-1.705MHz                                                                               | 24000/F(KHz) |        | QP      | 300m                 |
|                       | 1.705MHz-30MHz                                                                                  | 30           |        | QP      | 30m                  |
|                       | 30MHz-88MHz                                                                                     | 100          |        | QP      | 3m                   |
|                       | 88MHz-216MHz                                                                                    | 150          |        | QP      |                      |
|                       | 216MHz-960MHz                                                                                   | 200          |        | QP      |                      |
|                       | 960MHz-1GHz                                                                                     | 500          |        | QP      |                      |
|                       | Above 1GHz                                                                                      | 500          |        | Average |                      |
|                       |                                                                                                 | 5000         |        | Peak    |                      |
| Test setup:           | For radiated emissions from 9kHz to 30MHz                                                       |              |        |         |                      |
|                       | <div></div> |              |        |         |                      |
|                       | For radiated emissions from 30MHz to 1GHz                                                       |              |        |         |                      |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |  <p>For radiated emissions above 1GHz</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>Test Procedure:</p>   | <ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol> |
| <p>Test Instruments:</p> | <p>Refer to section 6.0 for details</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|                   |                                  |       |         |     |         |          |
|-------------------|----------------------------------|-------|---------|-----|---------|----------|
| Test mode:        | Refer to section 5.2 for details |       |         |     |         |          |
| Test voltage:     | AC120V 60Hz                      |       |         |     |         |          |
| Test environment: | Temp.:                           | 25 °C | Humid.: | 52% | Press.: | 1012mbar |
| Test voltage:     | AC 120V, 60Hz                    |       |         |     |         |          |
| Test results:     | Pass                             |       |         |     |         |          |

*Remarks:*

1. Only the worst case Main Antenna test data.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

**Measurement data:**

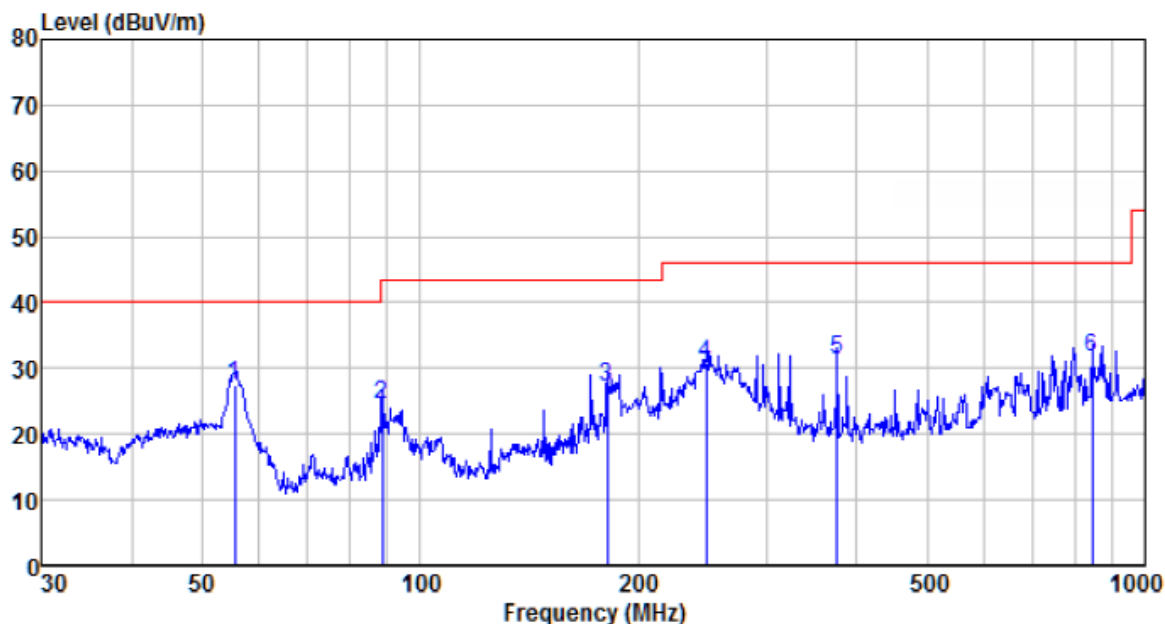
■ **9kHz~30MHz**

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

## ■ Below 1GHz

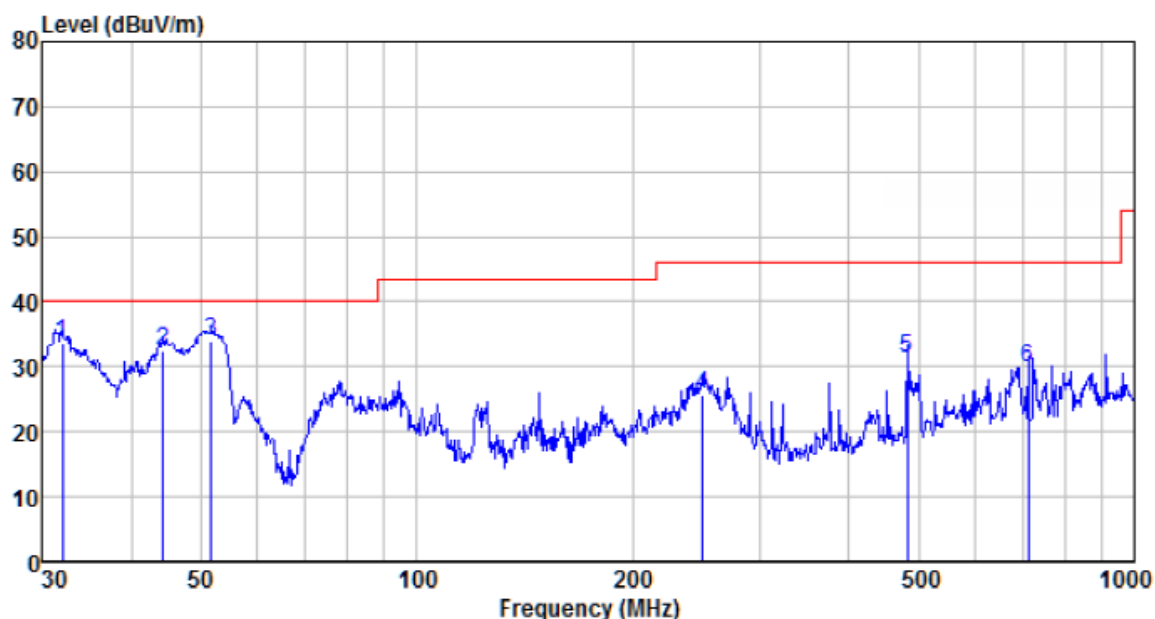
Pre-scan all test modes, found worst case is MIMO mode of 802.11n (HT20) 2437MHz, so only show the worst case at MIMO mode of 802.11n (HT20) 2437MHz on the report.

### Horizontal:



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|---------------|--------------------------|---------------------|--------|
| 55.415      | 51.26                    | 11.75                     | 0.82                | 36.26                  | 27.57         | 40.00                    | -12.43              | QP     |
| 88.652      | 49.92                    | 10.19                     | 1.10                | 36.63                  | 24.58         | 43.50                    | -18.92              | QP     |
| 181.283     | 53.59                    | 9.07                      | 1.75                | 37.24                  | 27.17         | 43.50                    | -16.33              | QP     |
| 247.682     | 53.94                    | 12.07                     | 2.11                | 37.38                  | 30.74         | 46.00                    | -15.26              | QP     |
| 375.939     | 50.96                    | 14.94                     | 2.75                | 37.50                  | 31.15         | 46.00                    | -14.85              | QP     |
| 845.088     | 42.77                    | 21.82                     | 4.63                | 37.61                  | 31.61         | 46.00                    | -14.39              | QP     |

Vertical:



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|---------------|--------------------------|---------------------|--------|
| 32.067      | 56.96                    | 11.24                     | 0.57                | 35.15                  | 33.62         | 40.00                    | -6.38               | QP     |
| 44.275      | 55.35                    | 12.25                     | 0.71                | 35.90                  | 32.41         | 40.00                    | -7.59               | QP     |
| 51.662      | 57.39                    | 12.12                     | 0.79                | 36.21                  | 34.09         | 40.00                    | -5.91               | QP     |
| 250.301     | 48.81                    | 12.18                     | 2.12                | 37.38                  | 25.73         | 46.00                    | -20.27              | QP     |
| 482.216     | 48.54                    | 16.97                     | 3.23                | 37.51                  | 31.23         | 46.00                    | -14.77              | QP     |
| 711.674     | 43.36                    | 19.85                     | 4.13                | 37.63                  | 29.71         | 46.00                    | -16.29              | QP     |

## ■ Above 1GHz

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|

### Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 41.51             | 31.78                 | 8.60            | 32.09              | 49.80          | 74.00               | -24.20          | Vertical     |
| 7236.00         | 35.14             | 36.15                 | 11.65           | 32.00              | 50.94          | 74.00               | -23.06          | Vertical     |
| 9648.00         | 33.82             | 37.95                 | 14.14           | 31.62              | 54.29          | 74.00               | -19.71          | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4824.00         | 40.04             | 31.78                 | 8.60            | 32.09              | 48.33          | 74.00               | -25.67          | Horizontal   |
| 7236.00         | 35.15             | 36.15                 | 11.65           | 32.00              | 50.95          | 74.00               | -23.05          | Horizontal   |
| 9648.00         | 32.80             | 37.95                 | 14.14           | 31.62              | 53.27          | 74.00               | -20.73          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

### Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 30.56             | 31.78                 | 8.60            | 32.09              | 38.85          | 54.00               | -15.15          | Vertical     |
| 7236.00         | 24.00             | 36.15                 | 11.65           | 32.00              | 39.80          | 54.00               | -14.20          | Vertical     |
| 9648.00         | 24.16             | 37.95                 | 14.14           | 31.62              | 44.63          | 54.00               | -9.37           | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4824.00         | 29.55             | 31.78                 | 8.60            | 32.09              | 37.84          | 54.00               | -16.16          | Horizontal   |
| 7236.00         | 23.72             | 36.15                 | 11.65           | 32.00              | 39.52          | 54.00               | -14.48          | Horizontal   |
| 9648.00         | 22.54             | 37.95                 | 14.14           | 31.62              | 43.01          | 54.00               | -10.99          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

### Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Middle |
|------------|---------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 40.49             | 31.85                 | 8.67            | 32.12              | 48.89          | 74.00               | -25.11          | Vertical     |
| 7311.00         | 35.17             | 36.37                 | 11.72           | 31.89              | 51.37          | 74.00               | -22.63          | Vertical     |
| 9748.00         | 34.80             | 38.35                 | 14.25           | 31.62              | 55.78          | 74.00               | -18.22          | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4874.00         | 40.84             | 31.85                 | 8.67            | 32.12              | 49.24          | 74.00               | -24.76          | Horizontal   |
| 7311.00         | 34.07             | 36.37                 | 11.72           | 31.89              | 50.27          | 74.00               | -23.73          | Horizontal   |
| 9748.00         | 34.10             | 38.35                 | 14.25           | 31.62              | 55.08          | 74.00               | -18.92          | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 31.31             | 31.85                 | 8.67            | 32.12              | 39.71          | 54.00               | -14.29          | Vertical     |
| 7311.00         | 23.47             | 36.37                 | 11.72           | 31.89              | 39.67          | 54.00               | -14.33          | Vertical     |
| 9748.00         | 24.05             | 38.35                 | 14.25           | 31.62              | 45.03          | 54.00               | -8.97           | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4874.00         | 30.94             | 31.85                 | 8.67            | 32.12              | 39.34          | 54.00               | -14.66          | Horizontal   |
| 7311.00         | 23.15             | 36.37                 | 11.72           | 31.89              | 39.35          | 54.00               | -14.65          | Horizontal   |
| 9748.00         | 23.81             | 38.35                 | 14.25           | 31.62              | 44.79          | 54.00               | -9.21           | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is too weak instrument of signal is unable to test.

|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4944.00         | 46.28             | 31.93                 | 8.73            | 32.16              | 54.78          | 74.00               | -19.22          | Vertical     |
| 7416.00         | 36.01             | 36.59                 | 11.79           | 31.78              | 52.61          | 74.00               | -21.39          | Vertical     |
| 9888.00         | 38.22             | 38.81                 | 14.38           | 31.88              | 59.53          | 74.00               | -14.47          | Vertical     |
| 12360.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14832.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17304.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4944.00         | 45.42             | 31.93                 | 8.73            | 32.16              | 53.92          | 74.00               | -20.08          | Horizontal   |
| 7416.00         | 35.15             | 36.59                 | 11.79           | 31.78              | 51.75          | 74.00               | -22.25          | Horizontal   |
| 9888.00         | 33.79             | 38.81                 | 14.38           | 31.88              | 55.10          | 74.00               | -18.90          | Horizontal   |
| 12360.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14832.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17304.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4944.00         | 37.14             | 31.93                 | 8.73            | 32.16              | 45.64          | 54.00               | -8.36           | Vertical     |
| 7416.00         | 25.91             | 36.59                 | 11.79           | 31.78              | 42.51          | 54.00               | -11.49          | Vertical     |
| 9888.00         | 26.71             | 38.81                 | 14.38           | 31.88              | 48.02          | 54.00               | -5.98           | Vertical     |
| 12360.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14832.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17304.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4944.00         | 35.75             | 31.93                 | 8.73            | 32.16              | 44.25          | 54.00               | -9.75           | Horizontal   |
| 7416.00         | 24.53             | 36.59                 | 11.79           | 31.78              | 41.13          | 54.00               | -12.87          | Horizontal   |
| 9888.00         | 23.04             | 38.81                 | 14.38           | 31.88              | 44.35          | 54.00               | -9.65           | Horizontal   |
| 12360.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14832.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17304.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is too weak instrument of signal is unable to test.

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | lowest |
|------------|---------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 41.30             | 31.78                 | 8.60            | 32.09              | 49.59          | 74.00               | -24.41          | Vertical     |
| 7236.00         | 35.04             | 36.15                 | 11.65           | 32.00              | 50.84          | 74.00               | -23.16          | Vertical     |
| 9648.00         | 33.84             | 37.95                 | 14.14           | 31.62              | 54.31          | 74.00               | -19.69          | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4824.00         | 39.88             | 31.78                 | 8.60            | 32.09              | 48.17          | 74.00               | -25.83          | Horizontal   |
| 7236.00         | 35.13             | 36.15                 | 11.65           | 32.00              | 50.93          | 74.00               | -23.07          | Horizontal   |
| 9648.00         | 32.72             | 37.95                 | 14.14           | 31.62              | 53.19          | 74.00               | -20.81          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 30.38             | 31.78                 | 8.60            | 32.09              | 38.67          | 54.00               | -15.33          | Vertical     |
| 7236.00         | 23.91             | 36.15                 | 11.65           | 32.00              | 39.71          | 54.00               | -14.29          | Vertical     |
| 9648.00         | 24.19             | 37.95                 | 14.14           | 31.62              | 44.66          | 54.00               | -9.34           | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4824.00         | 29.41             | 31.78                 | 8.60            | 32.09              | 37.70          | 54.00               | -16.30          | Horizontal   |
| 7236.00         | 23.71             | 36.15                 | 11.65           | 32.00              | 39.51          | 54.00               | -14.49          | Horizontal   |
| 9648.00         | 22.47             | 37.95                 | 14.14           | 31.62              | 42.94          | 54.00               | -11.06          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is too weak instrument of signal is unable to test.

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Middle |
|------------|---------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 40.34             | 31.85                 | 8.67            | 32.12              | 48.74          | 74.00               | -25.26          | Vertical     |
| 7311.00         | 35.10             | 36.37                 | 11.72           | 31.89              | 51.30          | 74.00               | -22.70          | Vertical     |
| 9748.00         | 34.86             | 38.35                 | 14.25           | 31.62              | 55.84          | 74.00               | -18.16          | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4874.00         | 40.73             | 31.85                 | 8.67            | 32.12              | 49.13          | 74.00               | -24.87          | Horizontal   |
| 7311.00         | 34.09             | 36.37                 | 11.72           | 31.89              | 50.29          | 74.00               | -23.71          | Horizontal   |
| 9748.00         | 34.04             | 38.35                 | 14.25           | 31.62              | 55.02          | 74.00               | -18.98          | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 31.19             | 31.85                 | 8.67            | 32.12              | 39.59          | 54.00               | -14.41          | Vertical     |
| 7311.00         | 23.42             | 36.37                 | 11.72           | 31.89              | 39.62          | 54.00               | -14.38          | Vertical     |
| 9748.00         | 24.11             | 38.35                 | 14.25           | 31.62              | 45.09          | 54.00               | -8.91           | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4874.00         | 30.84             | 31.85                 | 8.67            | 32.12              | 39.24          | 54.00               | -14.76          | Horizontal   |
| 7311.00         | 23.18             | 36.37                 | 11.72           | 31.89              | 39.38          | 54.00               | -14.62          | Horizontal   |
| 9748.00         | 23.76             | 38.35                 | 14.25           | 31.62              | 44.74          | 54.00               | -9.26           | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4944.00         | 45.91             | 31.93                 | 8.73            | 32.16              | 54.41          | 74.00               | -19.59          | Vertical     |
| 7416.00         | 35.80             | 36.59                 | 11.79           | 31.78              | 52.40          | 74.00               | -21.60          | Vertical     |
| 9888.00         | 38.17             | 38.81                 | 14.38           | 31.88              | 59.48          | 74.00               | -14.52          | Vertical     |
| 12360.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14832.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17304.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4944.00         | 45.12             | 31.93                 | 8.73            | 32.16              | 53.62          | 74.00               | -20.38          | Horizontal   |
| 7416.00         | 35.05             | 36.59                 | 11.79           | 31.78              | 51.65          | 74.00               | -22.35          | Horizontal   |
| 9888.00         | 33.64             | 38.81                 | 14.38           | 31.88              | 54.95          | 74.00               | -19.05          | Horizontal   |
| 12360.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14832.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17304.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4944.00         | 36.82             | 31.93                 | 8.73            | 32.16              | 45.32          | 54.00               | -8.68           | Vertical     |
| 7416.00         | 25.72             | 36.59                 | 11.79           | 31.78              | 42.32          | 54.00               | -11.68          | Vertical     |
| 9888.00         | 26.67             | 38.81                 | 14.38           | 31.88              | 47.98          | 54.00               | -6.02           | Vertical     |
| 12360.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14832.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17304.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4944.00         | 35.48             | 31.93                 | 8.73            | 32.16              | 43.98          | 54.00               | -10.02          | Horizontal   |
| 7416.00         | 24.43             | 36.59                 | 11.79           | 31.78              | 41.03          | 54.00               | -12.97          | Horizontal   |
| 9888.00         | 22.90             | 38.81                 | 14.38           | 31.88              | 44.21          | 54.00               | -9.79           | Horizontal   |
| 12360.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14832.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17304.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT20) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 41.27             | 31.78                 | 8.60            | 32.09              | 49.56          | 74.00               | -24.44          | Vertical     |
| 7236.00         | 35.05             | 36.15                 | 11.65           | 32.00              | 50.85          | 74.00               | -23.15          | Vertical     |
| 9648.00         | 33.94             | 37.95                 | 14.14           | 31.62              | 54.41          | 74.00               | -19.59          | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4824.00         | 39.86             | 31.78                 | 8.60            | 32.09              | 48.15          | 74.00               | -25.85          | Horizontal   |
| 7236.00         | 35.21             | 36.15                 | 11.65           | 32.00              | 51.01          | 74.00               | -22.99          | Horizontal   |
| 9648.00         | 32.71             | 37.95                 | 14.14           | 31.62              | 53.18          | 74.00               | -20.82          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 30.36             | 31.78                 | 8.60            | 32.09              | 38.65          | 54.00               | -15.35          | Vertical     |
| 7236.00         | 23.92             | 36.15                 | 11.65           | 32.00              | 39.72          | 54.00               | -14.28          | Vertical     |
| 9648.00         | 24.29             | 37.95                 | 14.14           | 31.62              | 44.76          | 54.00               | -9.24           | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4824.00         | 29.41             | 31.78                 | 8.60            | 32.09              | 37.70          | 54.00               | -16.30          | Horizontal   |
| 7236.00         | 23.79             | 36.15                 | 11.65           | 32.00              | 39.59          | 54.00               | -14.41          | Horizontal   |
| 9648.00         | 22.46             | 37.95                 | 14.14           | 31.62              | 42.93          | 54.00               | -11.07          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT20) | Test channel: | Middle |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 40.34             | 31.85                 | 8.67            | 32.12                    | 48.74          | 74.00               | -25.26          | Vertical     |
| 7311.00         | 35.14             | 36.37                 | 11.72           | 31.89                    | 51.34          | 74.00               | -22.66          | Vertical     |
| 9748.00         | 34.96             | 38.35                 | 14.25           | 31.62                    | 55.94          | 74.00               | -18.06          | Vertical     |
| 12185.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 4874.00         | 40.75             | 31.85                 | 8.67            | 32.12                    | 49.15          | 74.00               | -24.85          | Horizontal   |
| 7311.00         | 34.18             | 36.37                 | 11.72           | 31.89                    | 50.38          | 74.00               | -23.62          | Horizontal   |
| 9748.00         | 34.05             | 38.35                 | 14.25           | 31.62                    | 55.03          | 74.00               | -18.97          | Horizontal   |
| 12185.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 31.20             | 31.85                 | 8.67            | 32.12                    | 39.60          | 54.00               | -14.40          | Vertical     |
| 7311.00         | 23.45             | 36.37                 | 11.72           | 31.89                    | 39.65          | 54.00               | -14.35          | Vertical     |
| 9748.00         | 24.22             | 38.35                 | 14.25           | 31.62                    | 45.20          | 54.00               | -8.80           | Vertical     |
| 12185.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 4874.00         | 30.86             | 31.85                 | 8.67            | 32.12                    | 39.26          | 54.00               | -14.74          | Horizontal   |
| 7311.00         | 23.27             | 36.37                 | 11.72           | 31.89                    | 39.47          | 54.00               | -14.53          | Horizontal   |
| 9748.00         | 23.76             | 38.35                 | 14.25           | 31.62                    | 44.74          | 54.00               | -9.26           | Horizontal   |
| 12185.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |

**Remark:**

1. *Final Level* = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT20) | Test channel: | Highest |
|------------|---------------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4944.00         | 45.81             | 31.93                 | 8.73            | 32.16              | 54.31          | 74.00               | -19.69          | 4924.00      |
| 7416.00         | 35.77             | 36.59                 | 11.79           | 31.78              | 52.37          | 74.00               | -21.63          | 7386.00      |
| 9888.00         | 38.23             | 38.81                 | 14.38           | 31.88              | 59.54          | 74.00               | -14.46          | 9848.00      |
| 12360.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14832.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17304.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4944.00         | 45.05             | 31.93                 | 8.73            | 32.16              | 53.55          | 74.00               | -20.45          | Horizontal   |
| 7416.00         | 35.08             | 36.59                 | 11.79           | 31.78              | 51.68          | 74.00               | -22.32          | Horizontal   |
| 9888.00         | 33.60             | 38.81                 | 14.38           | 31.88              | 54.91          | 74.00               | -19.09          | Horizontal   |
| 12360.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14832.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17304.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4944.00         | 36.74             | 31.93                 | 8.73            | 32.16              | 45.24          | 54.00               | -8.76           | Vertical     |
| 7416.00         | 25.69             | 36.59                 | 11.79           | 31.78              | 42.29          | 54.00               | -11.71          | Vertical     |
| 9888.00         | 26.74             | 38.81                 | 14.38           | 31.88              | 48.05          | 54.00               | -5.95           | Vertical     |
| 12360.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14832.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17304.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4944.00         | 35.42             | 31.93                 | 8.73            | 32.16              | 43.92          | 54.00               | -10.08          | Horizontal   |
| 7416.00         | 24.48             | 36.59                 | 11.79           | 31.78              | 41.08          | 54.00               | -12.92          | Horizontal   |
| 9888.00         | 22.86             | 38.81                 | 14.38           | 31.88              | 44.17          | 54.00               | -9.83           | Horizontal   |
| 12360.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14832.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17304.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

- 1 Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT40) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4844.00         | 40.00             | 31.78                 | 8.60            | 32.09              | 48.29          | 74.00               | -25.71          | Vertical     |
| 7266.00         | 34.08             | 36.15                 | 11.65           | 32.00              | 49.88          | 74.00               | -24.12          | Vertical     |
| 9688.00         | 32.78             | 37.95                 | 14.14           | 31.62              | 53.25          | 74.00               | -20.75          | Vertical     |
| 12110.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14532.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 16954.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4844.00         | 38.74             | 31.78                 | 8.60            | 32.09              | 47.03          | 74.00               | -26.97          | Horizontal   |
| 7266.00         | 33.98             | 36.15                 | 11.65           | 32.00              | 49.78          | 74.00               | -24.22          | Horizontal   |
| 9688.00         | 32.18             | 37.95                 | 14.14           | 31.62              | 52.65          | 74.00               | -21.35          | Horizontal   |
| 12110.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14532.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 16954.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4844.00         | 29.13             | 31.78                 | 8.60            | 32.09              | 37.42          | 54.00               | -16.58          | Vertical     |
| 7266.00         | 22.96             | 36.15                 | 11.65           | 32.00              | 38.76          | 54.00               | -15.24          | Vertical     |
| 9688.00         | 23.14             | 37.95                 | 14.14           | 31.62              | 43.61          | 54.00               | -10.39          | Vertical     |
| 12110.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14532.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 16954.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4844.00         | 28.31             | 31.78                 | 8.60            | 32.09              | 36.60          | 54.00               | -17.40          | Horizontal   |
| 7266.00         | 22.57             | 36.15                 | 11.65           | 32.00              | 38.37          | 54.00               | -15.63          | Horizontal   |
| 9688.00         | 21.94             | 37.95                 | 14.14           | 31.62              | 42.41          | 54.00               | -11.59          | Horizontal   |
| 12110.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14532.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 16954.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT40) | Test channel: | Middle |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 39.16             | 31.85                 | 8.67            | 32.12              | 47.56          | 74.00               | -26.44          | Vertical     |
| 7311.00         | 34.22             | 36.37                 | 11.72           | 31.89              | 50.42          | 74.00               | -23.58          | Vertical     |
| 9748.00         | 33.84             | 38.35                 | 14.25           | 31.62              | 54.82          | 74.00               | -19.18          | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4874.00         | 39.69             | 31.85                 | 8.67            | 32.12              | 48.09          | 74.00               | -25.91          | Horizontal   |
| 7311.00         | 32.99             | 36.37                 | 11.72           | 31.89              | 49.19          | 74.00               | -24.81          | Horizontal   |
| 9748.00         | 33.55             | 38.35                 | 14.25           | 31.62              | 54.53          | 74.00               | -19.47          | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 30.05             | 31.85                 | 8.67            | 32.12              | 38.45          | 54.00               | -15.55          | Vertical     |
| 7311.00         | 22.54             | 36.37                 | 11.72           | 31.89              | 38.74          | 54.00               | -15.26          | Vertical     |
| 9748.00         | 23.11             | 38.35                 | 14.25           | 31.62              | 44.09          | 54.00               | -9.91           | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4874.00         | 29.82             | 31.85                 | 8.67            | 32.12              | 38.22          | 54.00               | -15.78          | Horizontal   |
| 7311.00         | 22.09             | 36.37                 | 11.72           | 31.89              | 38.29          | 54.00               | -15.71          | Horizontal   |
| 9748.00         | 23.27             | 38.35                 | 14.25           | 31.62              | 44.25          | 54.00               | -9.75           | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“\*” , means this data is the too weak instrument of signal is unable to test.*

|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT40) | Test channel: | Highest |
|------------|---------------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4904.00         | 44.35             | 31.93                 | 8.73            | 32.16              | 52.85          | 74.00               | -21.15          | Vertical     |
| 7356.00         | 34.68             | 36.59                 | 11.79           | 31.78              | 51.28          | 74.00               | -22.72          | Vertical     |
| 9808.00         | 36.99             | 38.81                 | 14.38           | 31.88              | 58.30          | 74.00               | -15.70          | Vertical     |
| 12260.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14712.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17164.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4904.00         | 43.76             | 31.93                 | 8.73            | 32.16              | 52.26          | 74.00               | -21.74          | Horizontal   |
| 7356.00         | 33.74             | 36.59                 | 11.79           | 31.78              | 50.34          | 74.00               | -23.66          | Horizontal   |
| 9808.00         | 32.99             | 38.81                 | 14.38           | 31.88              | 54.30          | 74.00               | -19.70          | Horizontal   |
| 12260.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14712.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17164.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4904.00         | 35.33             | 31.93                 | 8.73            | 32.16              | 43.83          | 54.00               | -10.17          | Vertical     |
| 7356.00         | 24.61             | 36.59                 | 11.79           | 31.78              | 41.21          | 54.00               | -12.79          | Vertical     |
| 9808.00         | 25.50             | 38.81                 | 14.38           | 31.88              | 46.81          | 54.00               | -7.19           | Vertical     |
| 12260.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14712.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17164.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4904.00         | 34.17             | 31.93                 | 8.73            | 32.16              | 42.67          | 54.00               | -11.33          | Horizontal   |
| 7356.00         | 23.15             | 36.59                 | 11.79           | 31.78              | 39.75          | 54.00               | -14.25          | Horizontal   |
| 9808.00         | 22.26             | 38.81                 | 14.38           | 31.88              | 43.57          | 54.00               | -10.43          | Horizontal   |
| 12260.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14712.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17164.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

- 1 Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “\*”, means this data is the too weak instrument of signal is unable to test.

## 8 Test Setup Photo

Reference to the **appendix I** for details.

## 9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----