



# FCC Part 15C Test Report

## FCC ID: 2ADGH-6310

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Manufacturer: Ralinwi Nanjing Electronic Technology Co., Ltd.

Address: 3rd Floor,Building B,R&D Block 3, Xuzhuang Software Park, Nanjing City, China.

EUT: M.2 WIFI Network Card

Trade Mark: N/A

Model Number: Hicon6310, Nic3552e, Nic3562e

Date of Receipt: May. 05, 2022

Test Date: May. 05, 2022 – May. 29, 2022

Date of Report: May. 29, 2022

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Applicable Standards: FCC PART 15 C 15.407  
ANSI C63.10:2013

Test Result: Pass

Report Number: DL-20220526017-2E

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*This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.*



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## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 (15.407) , Subpart C |                                                                         |          |        |
|---------------------------------|-------------------------------------------------------------------------|----------|--------|
| Standard Section                | Test Item                                                               | Judgment | Remark |
| 15.207                          | Conducted Emission                                                      | PASS     |        |
| 15.407(b), 15.209               | Radiated Spurious Emission                                              | PASS     |        |
| 15.407 (b)                      | Band Edge Emission                                                      | PASS     |        |
| 15.407 (a)                      | Peak Output Power                                                       | PASS     |        |
| 15.407 (a)                      | Power Spectral Density                                                  | PASS     |        |
| 15.403(i)<br>15.407(e)          | 26dB bandwidth and 99%dB Bandwidth<br>6dB bandwidth and 99%dB Bandwidth | PASS     |        |
| 15.407(g)                       | Frequency Stability                                                     | PASS     |        |
| 15.407(c)                       | Transmission in case of Absence of Information                          | PASS     |        |
| 15.203                          | Antenna Requirement                                                     | PASS     |        |

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

### 1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$  providing a level of confidence of approximately 95 %.

| No. | Item                         | Uncertainty               |
|-----|------------------------------|---------------------------|
| 1   | Conducted Emission Test      | $\pm 2.56\text{dB}$       |
| 2   | RF power,conducted           | $\pm 0.42\text{dB}$       |
| 3   | Spurious emissions,conducted | $\pm 2.76\text{dB}$       |
| 4   | All emissions,radiated(<1G)  | $\pm 3.65\text{dB}$       |
| 5   | All emissions,radiated(>1G)  | $\pm 4.89\text{dB}$       |
| 6   | Temperature                  | $\pm 0.5^{\circ}\text{C}$ |
| 7   | Humidity                     | $\pm 2\%$                 |



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                        |                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:          | M.2 WIFI Network Card                                                                                                                                 |
| Trademark              | N/A                                                                                                                                                   |
| Model No.:             | Hicon6310, Nic3552e, Nic3562e                                                                                                                         |
| Model Difference       | All samples are the same except the model number, so we prepare " Hicon6310" for test only.                                                           |
| Operation Frequency:   | 5180-5240, 5745-5825MHz(802.11a/ac/ax/n(HT20))<br>5190-5230, 5755-5795MHz(802.11ac/ax n(HT40))<br>5210MHz, 5775MHz(802.11ac/ax80)                     |
| Channel numbers:       | See channel list                                                                                                                                      |
| Channel separation:    | 20MHz for 802.11a/ac/ax/n(HT20)<br>40MHz for 802.11ac/ax/n(HT40)                                                                                      |
| Modulation technology: | 64QAM, 16QAM, QPSK, BPSK for OFDM                                                                                                                     |
| Rate of Transmitter    | 802.11a: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps<br>802.11n: Up to 300Mbps<br>802.11ac: up to 867Mbps<br>802.11ax: up to 1200Mbps |
| Antenna Type:          | External antenna*2                                                                                                                                    |
| Antenna gain:          | 2dBi<br>MIMO Gain=2dBi+10log(2)=5.01dBi                                                                                                               |
| Power supply:          | DC 3.3V from host                                                                                                                                     |

Note:

- 1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.The EUT's all information provided by client.
3. The MIMO mode is only used for 802.11 ac/ax/n mode.



## 2. Channel List

| 802.11a/ac/ax/n(HT20) |                 |         |                 |
|-----------------------|-----------------|---------|-----------------|
| Channel               | Frequency (MHz) | Channel | Frequency (MHz) |
| 36                    | 5180            | 44      | 5220            |
| 40                    | 5200            | 48      | 5240            |

| 802.11a/ac/ax/n(HT20) |                 |         |                 |
|-----------------------|-----------------|---------|-----------------|
| Channel               | Frequency (MHz) | Channel | Frequency (MHz) |
| 149                   | 5745            | 161     | 5805            |
| 153                   | 5765            | 165     | 5825            |
| 157                   | 5785            |         |                 |

| 802.11ac/ax/n(HT40) |                 |         |                 | 802.11ac/ax 80 |                 |
|---------------------|-----------------|---------|-----------------|----------------|-----------------|
| Channel             | Frequency (MHz) | Channel | Frequency (MHz) | Channel        | Frequency (MHz) |
| 38                  | 5190            | 46      | 5230            | 42             | 5210            |

| 802.11 ac/ax/ (HT40) |                 |         |                 | 802.11ac/ax 80 |                 |
|----------------------|-----------------|---------|-----------------|----------------|-----------------|
| Channel              | Frequency (MHz) | Channel | Frequency (MHz) | Channel        | Frequency (MHz) |
| 151                  | 5755            | 159     | 5795            | 155            | 5775            |



## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Description  |                       |                  |                     |
|--------------|-----------------------|------------------|---------------------|
| Pretest Mode | Channel               | Band 1           | Band 4              |
| Mode 1       | 802.11a /ac/ax/n HT20 | CH36, CH44, CH48 | CH149, CH157, CH165 |
| Mode 2       | 802.11n/ac/ax HT40    | CH38, CH46       | CH151, CH159        |
| Mode 3       | 802.11ac/ax HT80      | CH42             | CH157               |
| Mode 4       | Other                 | Link Mode        |                     |

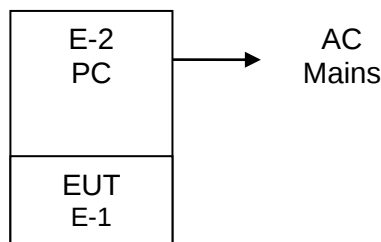
| For Radiated Emission |                  |                  |                     |
|-----------------------|------------------|------------------|---------------------|
| Pretest Mode          | Channel          | Band 1           | Band 4              |
| Mode 1                | 802.11a/n/acHT20 | CH36, CH44, CH48 | CH149, CH157, CH165 |
| Mode 2                | 802.11n/acHT40   | CH38, CH46       | CH151, CH159        |
| Mode 3                | 802.11ac/ax HT80 | CH42             | CH157               |
| Mode 4                | Other            | Link Mode        |                     |

Note: 1. The measurements are performed at the highest, middle, lowest available channels.



### 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Emission Test



### 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment             | Model/Type No. | Series No. | Note               |
|------|-----------------------|----------------|------------|--------------------|
| E-1  | M.2 WIFI Network Card | Hicon6310      | N/A        | EUT                |
| E-2  | PC                    | WKY-0502000DM  | N/A        | Provide by client. |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
|      |               |              |        |      |

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

### 2.5 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the end product.

| Max output power Setting  |                           |              |              |
|---------------------------|---------------------------|--------------|--------------|
| Test software Version     | Test program: AXDN-0002.0 |              |              |
| Mode                      | 802.11a/ac/ax             | 802.11n HT20 | 802.11n HT40 |
| Data Rate                 | MCS0                      | MSC0         | MSC0         |
| Power Setting of Softwave | 45                        | 45           | 45           |



## 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

### Radiation test, Band-edge test and 6db bandwidth test equipment

| Item | Equipment                        | Manufacturer    | Type No.  | Serial No. | Last calibration | Calibrated until |
|------|----------------------------------|-----------------|-----------|------------|------------------|------------------|
| 1    | Spectrum Analyzer (9kHz-26.5GHz) | Agilent         | E4408B    | MY50140780 | Nov. 06, 2021    | Nov. 05, 2022    |
| 2    | Test Receiver (9kHz-7GHz)        | R&S             | ESRP7     | 101393     | Nov. 06, 2021    | Nov. 05, 2022    |
| 3    | Bilog Antenna (30MHz-1GHz)       | R&S             | VULB9162  | 00306      | Nov. 06, 2021    | Nov. 05, 2022    |
| 4    | Horn Antenna (1GHz-18GHz)        | Schwarzbeck     | BBHA9120D | 02139      | Nov. 06, 2021    | Nov. 05, 2022    |
| 5    | Horn Antenna (18GHz-40GHz)       | A.H. Systems    | SAS-574   | 588        | Nov. 06, 2021    | Nov. 05, 2022    |
| 6    | Amplifier (9KHz-6GHz)            | Schwarzbeck     | BBV9743B  | 00153      | Nov. 06, 2021    | Nov. 05, 2022    |
| 7    | Amplifier (1GHz-18GHz)           | EMEC            | EM01G8GA  | 00270      | Nov. 06, 2021    | Nov. 05, 2022    |
| 8    | Amplifier (18GHz-40GHz)          | Quanjuda        | DLE-161   | 97         | Nov. 06, 2021    | Nov. 05, 2022    |
| 9    | Loop Antenna (9KHz-30MHz)        | Schwarzbeck     | FMZB1519B | 00014      | Nov. 06, 2021    | Nov. 05, 2022    |
| 10   | RF cables1 (9kHz-1GHz)           | ChengYu         | 966       | 004        | Nov. 06, 2021    | Nov. 05, 2022    |
| 11   | RF cables2 (1GHz-40GHz)          | ChengYu         | 966       | 003        | Nov. 06, 2021    | Nov. 05, 2022    |
| 12   | Antenna connector                | Florida RF Labs | N/A       | RF 01#     | Nov. 06, 2021    | Nov. 05, 2022    |
| 13   | Power probe                      | KEYSIGHT        | U2021XA   | MY55210018 | Nov. 06, 2021    | Nov. 05, 2022    |
| 14   | Signal Analyzer 9kHz-26.5GHz     | Agilent         | N9020A    | MY55370280 | Nov. 06, 2021    | Nov. 05, 2022    |
| 15   | Test Receiver 20kHz-40GHz        | R&S             | ESU 40    | 100376     | Nov. 06, 2021    | Nov. 05, 2022    |
| 16   | D.C. Power Supply                | LongWei         | PS-305D   | 010964729  | Nov. 06, 2021    | Nov. 05, 2022    |

### Conduction Test equipment

| Item | Equipment         | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|------------------|
| 1    | 843 Shielded Room | ChengYu      | 843 Room | 843        | Nov. 25, 2019    | Nov. 24, 2022    |
| 2    | EMI Receiver      | R&S          | ESR      | 101421     | Nov. 06, 2021    | Nov. 05, 2022    |
| 3    | LISN              | R&S          | ENV216   | 102417     | Nov. 06, 2021    | Nov. 05, 2022    |
| 4    | 843 Cable 1#      | ChengYu      | CE Cable | 001        | Nov. 06, 2021    | Nov. 05, 2022    |

### Other

| Item | Name                         | Manufacturer | Model   | Software version |
|------|------------------------------|--------------|---------|------------------|
| 1    | EMC Conduction Test System   | FALA         | EZ_EMCC | EMC-CON 3A1.1    |
| 2    | EMC radiation test system    | FALA         | EZ_EMCC | FA-03A2          |
| 3    | RF test system               | MAIWEI       | MTS8310 | 2.0.0.0          |
| 4    | RF communication test system | MAIWEI       | MTS8200 | 2.0.0.0          |



### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| FREQUENCY (MHz) | Limit (dBuV) |           | Standard |
|-----------------|--------------|-----------|----------|
|                 | Quasi-peak   | Average   |          |
| 0.15 -0.5       | 66 - 56 *    | 56 - 46 * | FCC      |
| 0.5 -5.0        | 56.00        | 46.00     | FCC      |
| 5.0 -30.0       | 60.00        | 50.00     | FCC      |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

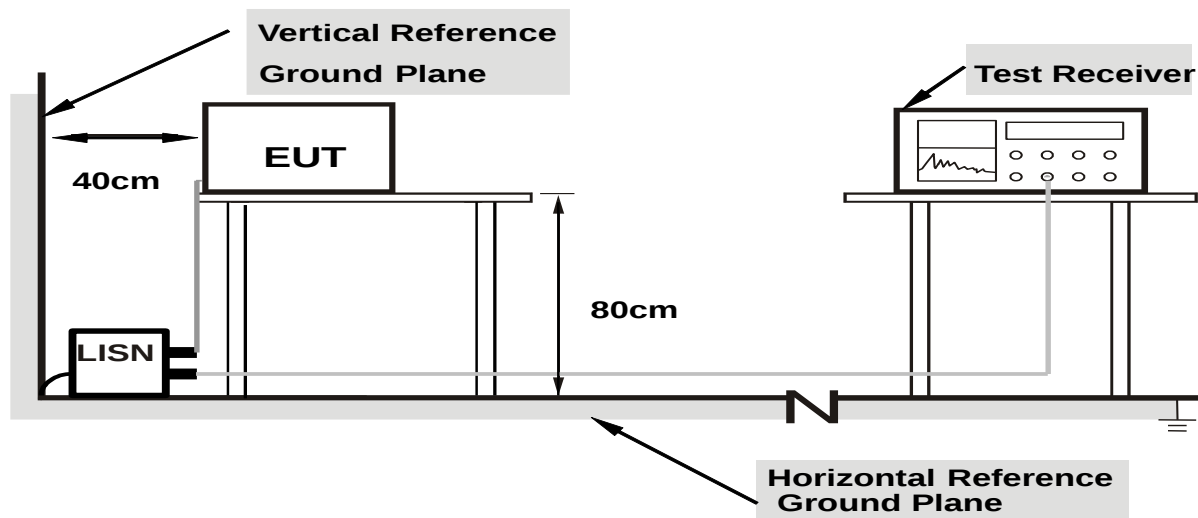
##### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

##### 3.1.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.1.4 TEST SETUP



**Note: 1.**Support units were connected to second LISN.

**2.**Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

### 3.1.5 EUT OPERATING CONDITIONS

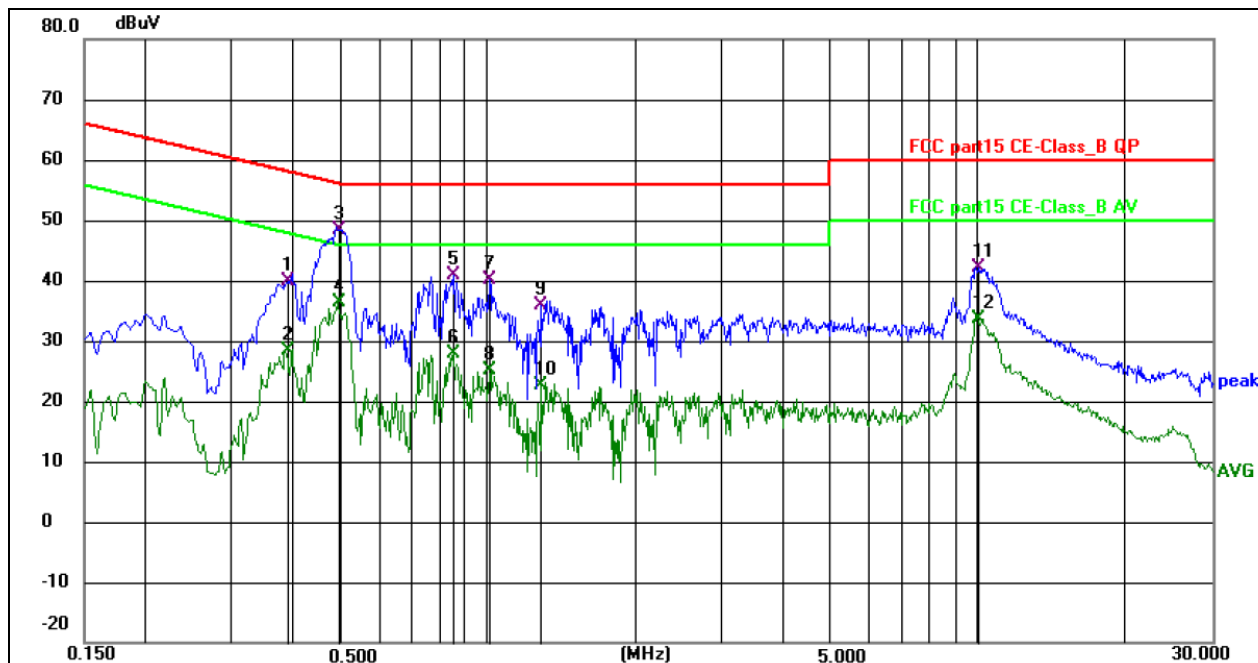
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

### 3.1.6 TEST RESULTS



|                |              |                    |        |
|----------------|--------------|--------------------|--------|
| Temperature:   | 25 °C        | Relative Humidity: | 54%    |
| Pressure:      | 1010hPa      | Phase :            | L      |
| Test Voltage : | AC 120V/60Hz | Test Mode:         | Mode 4 |



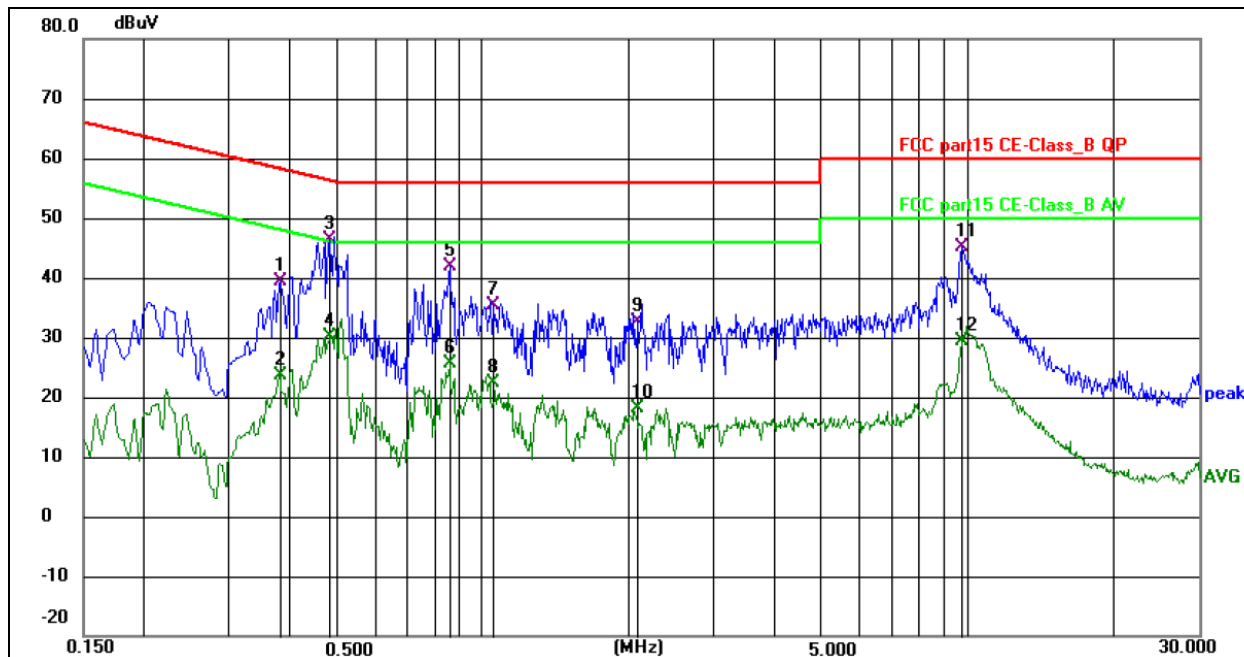
Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.388500        | 30.67          | 9.21        | 39.88        | 58.10        | -18.22      | QP       | P   |        |
| 2   | 0.388500        | 19.22          | 9.21        | 28.43        | 48.10        | -19.67      | AVG      | P   |        |
| 3 * | 0.496400        | 39.13          | 9.37        | 48.50        | 56.06        | -7.56       | QP       | P   |        |
| 4   | 0.496400        | 26.99          | 9.37        | 36.36        | 46.06        | -9.70       | AVG      | P   |        |
| 5   | 0.851900        | 31.60          | 9.30        | 40.90        | 56.00        | -15.10      | QP       | P   |        |
| 6   | 0.851900        | 18.46          | 9.30        | 27.76        | 46.00        | -18.24      | AVG      | P   |        |
| 7   | 1.009500        | 30.70          | 9.41        | 40.11        | 56.00        | -15.89      | QP       | P   |        |
| 8   | 1.009500        | 15.63          | 9.41        | 25.04        | 46.00        | -20.96      | AVG      | P   |        |
| 9   | 1.283900        | 26.34          | 9.53        | 35.87        | 56.00        | -20.13      | QP       | P   |        |
| 10  | 1.283900        | 13.19          | 9.53        | 22.72        | 46.00        | -23.28      | AVG      | P   |        |
| 11  | 10.027400       | 32.04          | 10.07       | 42.11        | 60.00        | -17.89      | QP       | P   |        |
| 12  | 10.027400       | 23.63          | 10.07       | 33.70        | 50.00        | -16.30      | AVG      | P   |        |



|                |              |                    |        |
|----------------|--------------|--------------------|--------|
| Temperature:   | 25 °C        | Relative Humidity: | 54%    |
| Pressure:      | 1010hPa      | Phase :            | N      |
| Test Voltage : | AC 120V/60Hz | Test Mode:         | Mode 4 |



Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.379500        | 30.28          | 9.10        | 39.38        | 58.29        | -18.91      | QP       | P   |        |
| 2   | 0.379500        | 14.63          | 9.10        | 23.73        | 48.29        | -24.56      | AVG      | P   |        |
| 3 * | 0.483000        | 37.25          | 9.17        | 46.42        | 56.29        | -9.87       | QP       | P   |        |
| 4   | 0.483000        | 20.87          | 9.17        | 30.04        | 46.29        | -16.25      | AVG      | P   |        |
| 5   | 0.856500        | 32.49          | 9.33        | 41.82        | 56.00        | -14.18      | QP       | P   |        |
| 6   | 0.856500        | 16.28          | 9.33        | 25.61        | 46.00        | -20.39      | AVG      | P   |        |
| 7   | 1.050000        | 26.00          | 9.31        | 35.31        | 56.00        | -20.69      | QP       | P   |        |
| 8   | 1.050000        | 12.96          | 9.31        | 22.27        | 46.00        | -23.73      | AVG      | P   |        |
| 9   | 2.098500        | 23.01          | 9.74        | 32.75        | 56.00        | -23.25      | QP       | P   |        |
| 10  | 2.098500        | 8.31           | 9.74        | 18.05        | 46.00        | -27.95      | AVG      | P   |        |
| 11  | 9.753000        | 35.37          | 9.87        | 45.24        | 60.00        | -14.76      | QP       | P   |        |
| 12  | 9.753000        | 19.55          | 9.87        | 29.42        | 50.00        | -20.58      | AVG      | P   |        |



### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009~0.490       | 2400/F(KHz)                       | 300                           |
| 0.490~1.705       | 24000/F(KHz)                      | 30                            |
| 1.705~30.0        | 30                                | 30                            |
| 30~88             | 100                               | 3                             |
| 88~216            | 150                               | 3                             |
| 216~960           | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Limit (dBuV/m) (at 3M) |         |
|-----------------|------------------------|---------|
|                 | PEAK                   | AVERAGE |
| Above 1000      | 74                     | 54      |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

| Spectrum Parameter                    | Setting                                          |
|---------------------------------------|--------------------------------------------------|
| Attenuation                           | Auto                                             |
| Start Frequency                       | 1000 MHz                                         |
| Stop Frequency                        | 25GHz                                            |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |



### 3.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).
- Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

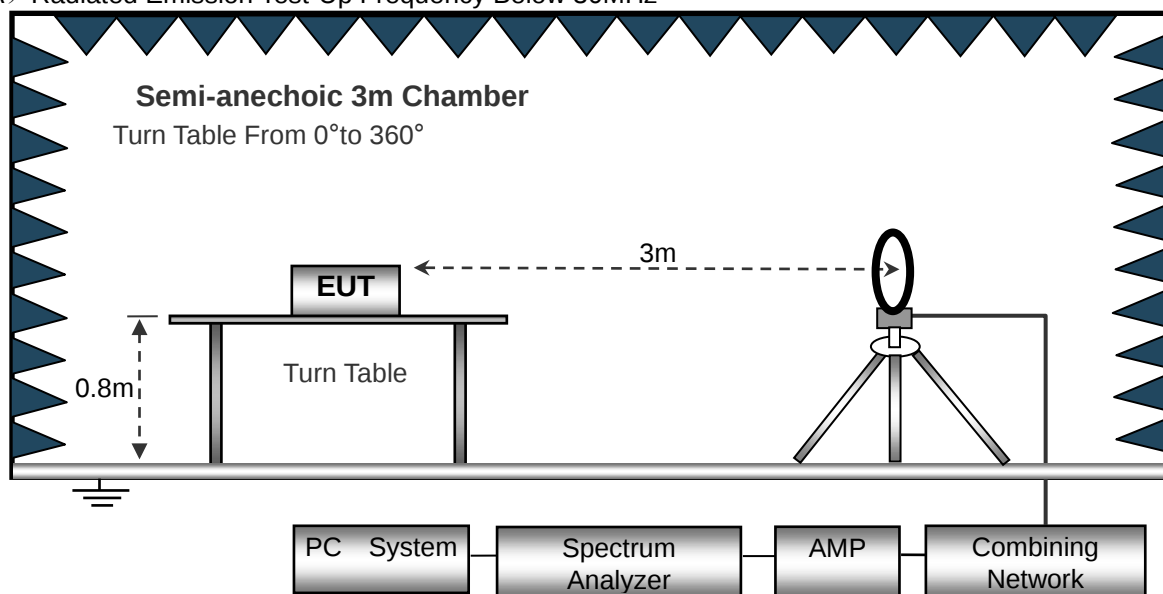
Both horizontal and vertical antenna polarities were tested and performed pretest to all antenna,. The worst case was antenna 1 and emissions were reported

### 3.2.3 DEVIATION FROM TEST STANDARD

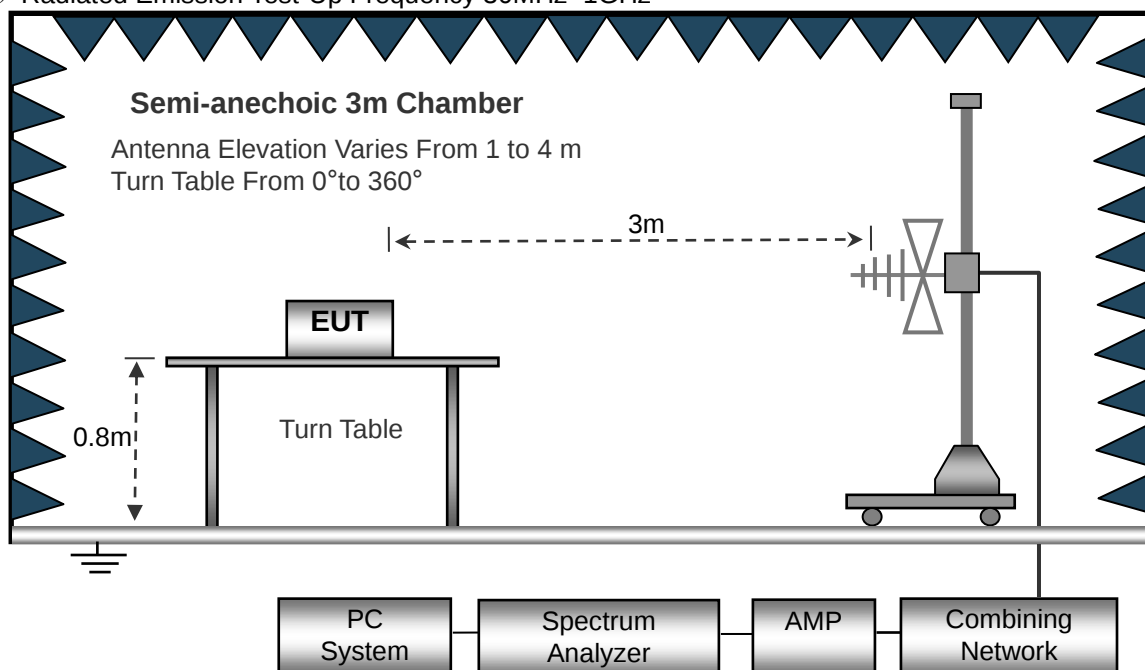
No deviation

### 3.2.4 TEST SETUP

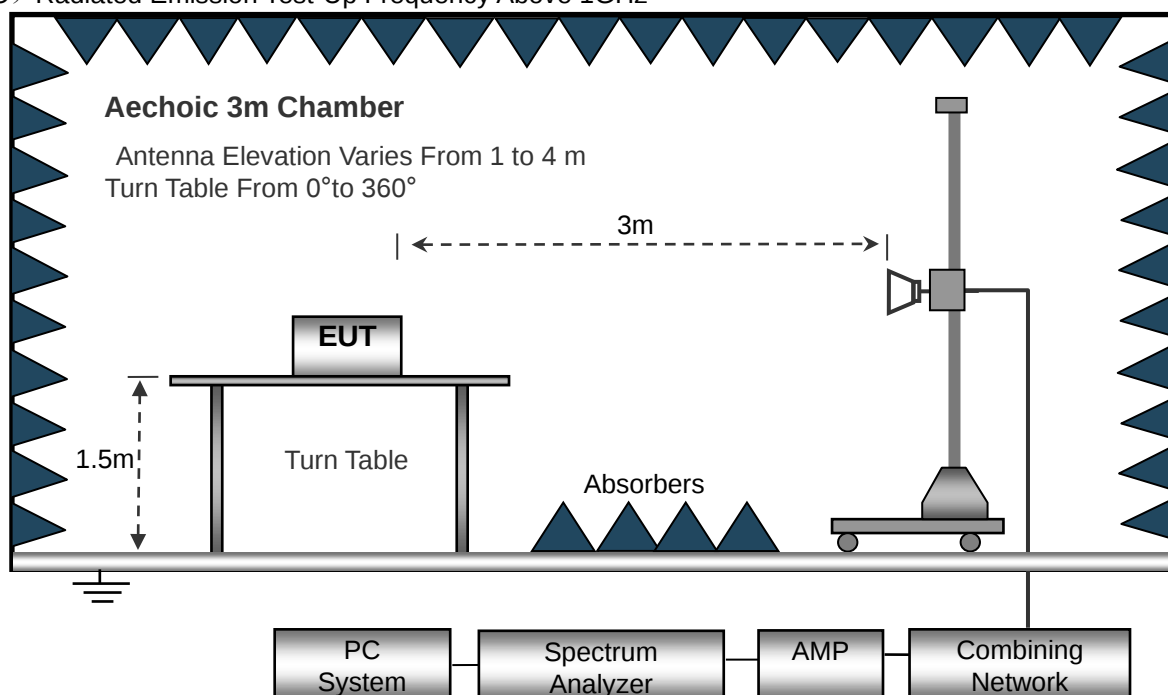
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



### 3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

**3.2.6 TEST RESULTS (Between 9KHz – 30 MHz)**

|              |          |                    |              |
|--------------|----------|--------------------|--------------|
| Temperature: | 20°C     | Relative Humidity: | 48%          |
| Pressure:    | 1010 hPa | Test Voltage :     | AC 120V/60Hz |
| Test Mode :  | Mode 4   | Polarization :     | --           |

| Freq. | Reading  | Limit    | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB)   | P/F   |
| --    | --       | --       | --     | PASS  |
| --    | --       | --       | --     | PASS  |

**NOTE:**

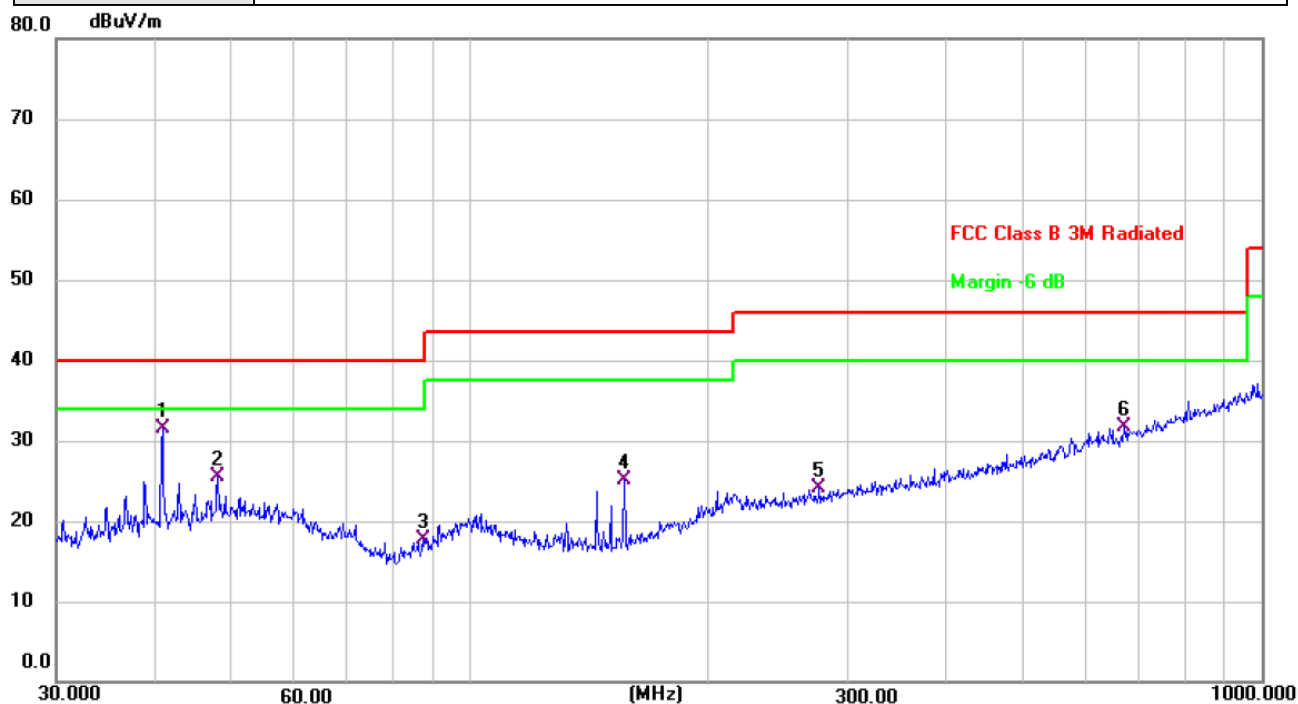
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.

**3.2.7 TEST RESULTS (Between 30MHz – 1GHz)**

|                |              |                    |            |
|----------------|--------------|--------------------|------------|
| Temperature:   | 26℃          | Relative Humidity: | 54%        |
| Pressure:      | 1010 hPa     | Polarization :     | Horizontal |
| Test Voltage : | AC 120V/60Hz |                    |            |
| Test Mode :    | Mode 4       |                    |            |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 * | 40.8446         | 44.24          | -12.68        | 31.56          | 40.00          | -8.44       |
| 2   | 47.9940         | 37.16          | -11.68        | 25.48          | 40.00          | -14.52      |
| 3   | 87.1117         | 33.62          | -15.99        | 17.63          | 40.00          | -22.37      |
| 4   | 156.4578        | 41.16          | -16.01        | 25.15          | 43.50          | -18.35      |
| 5   | 276.1235        | 34.80          | -10.60        | 24.20          | 46.00          | -21.80      |
| 6   | 670.4893        | 35.29          | -3.50         | 31.79          | 46.00          | -14.21      |

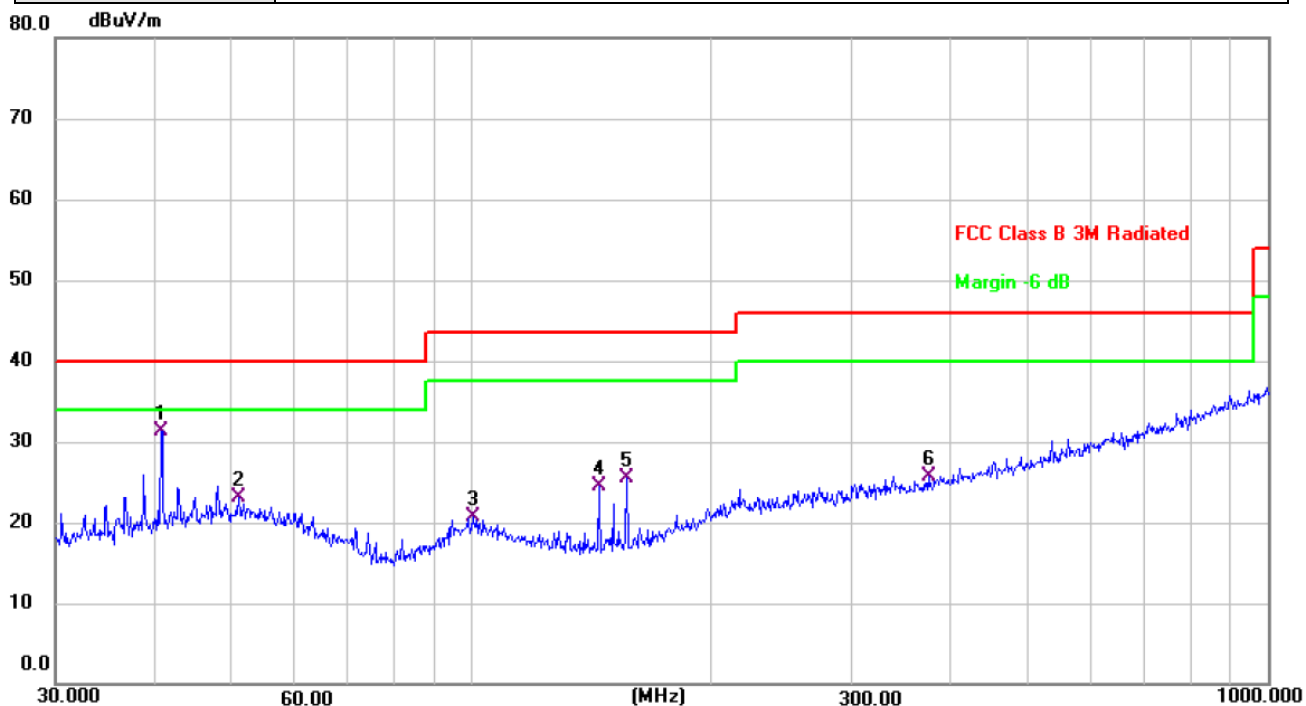
Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Limit – Level;



|                |              |                    |          |
|----------------|--------------|--------------------|----------|
| Temperature:   | 26℃          | Relative Humidity: | 54%      |
| Pressure:      | 1010 hPa     | Polarization :     | Vertical |
| test voltage : | AC 120V/60Hz |                    |          |
| Test Mode :    | Mode 4       |                    |          |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 * | 40.7016         | 44.06          | -12.70        | 31.36          | 40.00          | -8.64       |
| 2   | 50.9420         | 34.66          | -11.51        | 23.15          | 40.00          | -16.85      |
| 3   | 100.2286        | 34.25          | -13.52        | 20.73          | 43.50          | -22.77      |
| 4   | 144.3348        | 40.71          | -16.22        | 24.49          | 43.50          | -19.01      |
| 5   | 156.4578        | 41.43          | -16.01        | 25.42          | 43.50          | -18.08      |
| 6   | 374.6225        | 34.42          | -8.76         | 25.66          | 46.00          | -20.34      |

Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Limit – Level;

**3.2.8 TEST RESULTS (1ghz~40ghZ)**

802.11a band 1

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5180 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10360     | 57.83            | 49.05             | 15.3          | 37.39             | 61.47             | 74       | -12.53 | PK               |
| V                        | 10360     | 46.35            | 49.05             | 15.3          | 37.39             | 49.99             | 54       | -4.01  | AV               |
| V                        | 15540     | 58.02            | 49.16             | 15.27         | 40.45             | 64.58             | 74       | -9.42  | PK               |
| V                        | 15540     | 44.61            | 49.16             | 15.27         | 40.45             | 51.17             | 54       | -2.83  | AV               |
| H                        | 10360     | 57.45            | 49.05             | 15.3          | 37.39             | 61.09             | 74       | -12.91 | PK               |
| H                        | 10360     | 46.51            | 49.05             | 15.3          | 37.39             | 50.15             | 54       | -3.85  | AV               |
| H                        | 15540     | 60.57            | 49.16             | 15.27         | 40.45             | 67.13             | 74       | -6.87  | PK               |
| H                        | 15540     | 44.12            | 49.16             | 15.27         | 40.45             | 50.68             | 54       | -3.32  | AV               |
| operation frequency:5200 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10400     | 58.86            | 49.09             | 15.34         | 37.42             | 62.53             | 74       | -11.47 | PK               |
| V                        | 10400     | 46.41            | 49.09             | 15.34         | 37.42             | 50.08             | 54       | -3.92  | AV               |
| V                        | 15600     | 60.87            | 49.18             | 15.29         | 40.47             | 67.45             | 74       | -6.55  | PK               |
| V                        | 15600     | 44.16            | 49.18             | 15.29         | 40.47             | 50.74             | 54       | -3.26  | AV               |
| H                        | 10400     | 58.07            | 49.09             | 15.34         | 37.42             | 61.74             | 74       | -12.26 | PK               |
| H                        | 10400     | 46.85            | 49.09             | 15.34         | 37.42             | 50.52             | 54       | -3.48  | AV               |
| H                        | 15600     | 60.87            | 49.18             | 15.29         | 40.47             | 67.45             | 74       | -6.55  | PK               |
| H                        | 15600     | 44.40            | 49.18             | 15.29         | 40.47             | 50.98             | 54       | -3.02  | AV               |
| operation frequency:5240 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10480     | 59.94            | 49.11             | 15.37         | 37.46             | 63.66             | 74       | -10.34 | PK               |
| V                        | 10480     | 46.43            | 49.11             | 15.37         | 37.46             | 50.15             | 54       | -3.85  | AV               |
| V                        | 15720     | 60.59            | 49.21             | 15.34         | 40.51             | 67.23             | 74       | -6.77  | PK               |
| V                        | 15720     | 44.41            | 49.21             | 15.34         | 40.51             | 51.05             | 54       | -2.95  | AV               |
| H                        | 10480     | 58.40            | 49.11             | 15.37         | 31.31             | 55.97             | 74       | -18.03 | PK               |
| H                        | 10480     | 46.65            | 49.11             | 15.37         | 31.31             | 44.22             | 54       | -9.78  | AV               |
| H                        | 15720     | 58.84            | 49.21             | 15.34         | 40.51             | 65.48             | 74       | -8.52  | PK               |
| H                        | 15720     | 43.58            | 49.21             | 15.34         | 40.51             | 50.22             | 54       | -3.78  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11ac20 band 1

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5180 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10360     | 57.38            | 49.05             | 15.3          | 37.39             | 61.02             | 74       | -12.98 | PK               |
| V                        | 10360     | 45.99            | 49.05             | 15.3          | 37.39             | 49.63             | 54       | -4.37  | AV               |
| V                        | 15540     | 57.56            | 49.16             | 15.27         | 40.45             | 64.12             | 74       | -9.88  | PK               |
| V                        | 15540     | 44.26            | 49.16             | 15.27         | 40.45             | 50.82             | 54       | -3.18  | AV               |
| H                        | 10360     | 57.00            | 49.05             | 15.3          | 37.39             | 60.64             | 74       | -13.36 | PK               |
| H                        | 10360     | 46.15            | 49.05             | 15.3          | 37.39             | 49.79             | 54       | -4.21  | AV               |
| H                        | 15540     | 60.09            | 49.16             | 15.27         | 40.45             | 66.65             | 74       | -7.35  | PK               |
| H                        | 15540     | 43.77            | 49.16             | 15.27         | 40.45             | 50.33             | 54       | -3.67  | AV               |
| operation frequency:5200 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10400     | 58.40            | 49.09             | 15.34         | 37.42             | 62.07             | 74       | -11.93 | PK               |
| V                        | 10400     | 46.05            | 49.09             | 15.34         | 37.42             | 49.72             | 54       | -4.28  | AV               |
| V                        | 15600     | 60.40            | 49.18             | 15.29         | 40.47             | 66.98             | 74       | -7.02  | PK               |
| V                        | 15600     | 43.81            | 49.18             | 15.29         | 40.47             | 50.39             | 54       | -3.61  | AV               |
| H                        | 10400     | 57.61            | 49.09             | 15.34         | 37.42             | 61.28             | 74       | -12.72 | PK               |
| H                        | 10400     | 46.49            | 49.09             | 15.34         | 37.42             | 50.16             | 54       | -3.84  | AV               |
| H                        | 15600     | 60.40            | 49.18             | 15.29         | 40.47             | 66.98             | 74       | -7.02  | PK               |
| H                        | 15600     | 44.06            | 49.18             | 15.29         | 40.47             | 50.64             | 54       | -3.36  | AV               |
| operation frequency:5240 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10480     | 59.47            | 49.11             | 15.37         | 37.46             | 63.19             | 74       | -10.81 | PK               |
| V                        | 10480     | 46.07            | 49.11             | 15.37         | 37.46             | 49.79             | 54       | -4.21  | AV               |
| V                        | 15720     | 60.11            | 49.21             | 15.34         | 40.51             | 66.75             | 74       | -7.25  | PK               |
| V                        | 15720     | 44.07            | 49.21             | 15.34         | 40.51             | 50.71             | 54       | -3.29  | AV               |
| H                        | 10480     | 57.95            | 49.11             | 15.37         | 31.31             | 55.52             | 74       | -18.48 | PK               |
| H                        | 10480     | 46.28            | 49.11             | 15.37         | 31.31             | 43.85             | 54       | -10.15 | AV               |
| H                        | 15720     | 58.38            | 49.21             | 15.34         | 40.51             | 65.02             | 74       | -8.98  | PK               |
| H                        | 15720     | 43.24            | 49.21             | 15.34         | 40.51             | 49.88             | 54       | -4.12  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11ax20 band 1

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5180 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10360     | 57.04            | 49.05             | 15.3          | 37.39             | 60.68             | 74       | -13.32 | PK               |
| V                        | 10360     | 45.72            | 49.05             | 15.3          | 37.39             | 49.36             | 54       | -4.64  | AV               |
| V                        | 15540     | 57.22            | 49.16             | 15.27         | 40.45             | 63.78             | 74       | -10.22 | PK               |
| V                        | 15540     | 44.00            | 49.16             | 15.27         | 40.45             | 50.56             | 54       | -3.44  | AV               |
| H                        | 10360     | 56.67            | 49.05             | 15.3          | 37.39             | 60.31             | 74       | -13.69 | PK               |
| H                        | 10360     | 45.88            | 49.05             | 15.3          | 37.39             | 49.52             | 54       | -4.48  | AV               |
| H                        | 15540     | 59.74            | 49.16             | 15.27         | 40.45             | 66.30             | 74       | -7.70  | PK               |
| H                        | 15540     | 43.51            | 49.16             | 15.27         | 40.45             | 50.07             | 54       | -3.93  | AV               |
| operation frequency:5200 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10400     | 58.05            | 49.09             | 15.34         | 37.42             | 61.72             | 74       | -12.28 | PK               |
| V                        | 10400     | 45.78            | 49.09             | 15.34         | 37.42             | 49.45             | 54       | -4.55  | AV               |
| V                        | 15600     | 60.04            | 49.18             | 15.29         | 40.47             | 66.62             | 74       | -7.38  | PK               |
| V                        | 15600     | 43.55            | 49.18             | 15.29         | 40.47             | 50.13             | 54       | -3.87  | AV               |
| H                        | 10400     | 57.27            | 49.09             | 15.34         | 37.42             | 60.94             | 74       | -13.06 | PK               |
| H                        | 10400     | 46.21            | 49.09             | 15.34         | 37.42             | 49.88             | 54       | -4.12  | AV               |
| H                        | 15600     | 60.04            | 49.18             | 15.29         | 40.47             | 66.62             | 74       | -7.38  | PK               |
| H                        | 15600     | 43.80            | 49.18             | 15.29         | 40.47             | 50.38             | 54       | -3.62  | AV               |
| operation frequency:5240 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10480     | 59.12            | 49.11             | 15.37         | 37.46             | 62.84             | 74       | -11.16 | PK               |
| V                        | 10480     | 45.80            | 49.11             | 15.37         | 37.46             | 49.52             | 54       | -4.48  | AV               |
| V                        | 15720     | 59.76            | 49.21             | 15.34         | 40.51             | 66.40             | 74       | -7.60  | PK               |
| V                        | 15720     | 43.81            | 49.21             | 15.34         | 40.51             | 50.45             | 54       | -3.55  | AV               |
| H                        | 10480     | 57.61            | 49.11             | 15.37         | 31.31             | 55.18             | 74       | -18.82 | PK               |
| H                        | 10480     | 46.01            | 49.11             | 15.37         | 31.31             | 43.58             | 54       | -10.42 | AV               |
| H                        | 15720     | 58.03            | 49.21             | 15.34         | 40.51             | 64.67             | 74       | -9.33  | PK               |
| H                        | 15720     | 42.99            | 49.21             | 15.34         | 40.51             | 49.63             | 54       | -4.37  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n HT20

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5180 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10360     | 57.31            | 49.05             | 15.3          | 37.39             | 60.95             | 74       | -13.05 | PK               |
| V                        | 10360     | 46.14            | 49.05             | 15.3          | 37.39             | 49.78             | 54       | -4.22  | AV               |
| V                        | 15540     | 56.83            | 49.16             | 15.27         | 40.45             | 63.39             | 74       | -10.61 | PK               |
| V                        | 15540     | 43.78            | 49.16             | 15.27         | 40.45             | 50.34             | 54       | -3.66  | AV               |
| H                        | 10360     | 57.23            | 49.05             | 15.3          | 37.39             | 60.87             | 74       | -13.13 | PK               |
| H                        | 10360     | 45.78            | 49.05             | 15.3          | 37.39             | 49.42             | 54       | -4.58  | AV               |
| H                        | 15540     | 54.70            | 49.16             | 15.27         | 40.45             | 61.26             | 74       | -12.74 | PK               |
| H                        | 15540     | 44.80            | 49.16             | 15.27         | 40.45             | 51.36             | 54       | -2.64  | AV               |
| operation frequency:5200 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10400     | 56.84            | 49.09             | 15.34         | 37.42             | 60.51             | 74       | -13.49 | PK               |
| V                        | 10400     | 45.23            | 49.09             | 15.34         | 37.42             | 48.90             | 54       | -5.10  | AV               |
| V                        | 15600     | 55.92            | 49.18             | 15.29         | 40.47             | 62.50             | 74       | -11.50 | PK               |
| V                        | 15600     | 43.88            | 49.18             | 15.29         | 40.47             | 50.46             | 54       | -3.54  | AV               |
| H                        | 10400     | 56.13            | 49.09             | 15.34         | 37.42             | 59.80             | 74       | -14.20 | PK               |
| H                        | 10400     | 43.77            | 49.09             | 15.34         | 37.42             | 47.44             | 54       | -6.56  | AV               |
| H                        | 15600     | 55.63            | 49.18             | 15.29         | 40.47             | 62.21             | 74       | -11.79 | PK               |
| H                        | 15600     | 43.65            | 49.18             | 15.29         | 40.47             | 50.23             | 54       | -3.77  | AV               |
| operation frequency:5240 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10480     | 57.12            | 49.11             | 15.37         | 37.46             | 60.84             | 74       | -13.16 | PK               |
| V                        | 10480     | 45.09            | 49.11             | 15.37         | 37.46             | 48.81             | 54       | -5.19  | AV               |
| V                        | 15720     | 54.92            | 49.21             | 15.34         | 40.51             | 61.56             | 74       | -12.44 | PK               |
| V                        | 15720     | 43.92            | 49.21             | 15.34         | 40.51             | 50.56             | 54       | -3.44  | AV               |
| H                        | 10480     | 57.16            | 49.11             | 15.37         | 31.31             | 54.73             | 74       | -19.27 | PK               |
| H                        | 10480     | 45.10            | 49.11             | 15.37         | 31.31             | 42.67             | 54       | -11.33 | AV               |
| H                        | 15720     | 55.91            | 49.21             | 15.34         | 40.51             | 62.55             | 74       | -11.45 | PK               |
| H                        | 15720     | 44.70            | 49.21             | 15.34         | 40.51             | 51.34             | 54       | -2.66  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11ac 40

| Polar<br>(H/V)                                                                                                                                                                                                                                                                                                                                            | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                                                                                                                                                                                                                                                                                                                                                           | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5190                                                                                                                                                                                                                                                                                                                                  |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                                                                                                                                                                                                                                         | 10380     | 58.32            | 49.07             | 15.33         | 37.41             | 61.99             | 74       | -12.01 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 10380     | 46.49            | 49.07             | 15.33         | 37.41             | 50.16             | 54       | -3.84  | AV               |
| V                                                                                                                                                                                                                                                                                                                                                         | 15570     | 57.78            | 49.17             | 15.28         | 40.46             | 64.35             | 74       | -9.65  | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 15570     | 44.56            | 49.17             | 15.28         | 40.46             | 51.13             | 54       | -2.87  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 10380     | 58.18            | 49.07             | 15.33         | 37.41             | 61.85             | 74       | -12.15 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 10380     | 46.55            | 49.07             | 15.33         | 37.41             | 50.22             | 54       | -3.78  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 15570     | 56.14            | 49.17             | 15.28         | 40.46             | 62.71             | 74       | -11.29 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 15570     | 44.44            | 49.17             | 15.28         | 40.46             | 50.01             | 54       | -2.99  | AV               |
| operation frequency:5230                                                                                                                                                                                                                                                                                                                                  |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                                                                                                                                                                                                                                         | 10460     | 58.75            | 49.11             | 15.37         | 37.46             | 62.47             | 74       | -11.53 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 10460     | 45.67            | 49.11             | 15.37         | 37.46             | 49.39             | 54       | -4.61  | AV               |
| V                                                                                                                                                                                                                                                                                                                                                         | 15690     | 55.90            | 49.21             | 15.34         | 40.51             | 62.54             | 74       | -11.46 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 15690     | 44.51            | 49.21             | 15.34         | 40.51             | 51.15             | 54       | -2.85  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 10460     | 58.92            | 49.11             | 15.37         | 31.31             | 56.49             | 74       | -17.51 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 10460     | 46.03            | 49.11             | 15.37         | 31.31             | 43.60             | 54       | -10.40 | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 15690     | 56.88            | 49.21             | 15.34         | 40.51             | 63.52             | 74       | -10.48 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 15690     | 44.25            | 49.21             | 15.34         | 40.51             | 50.89             | 54       | -3.11  | AV               |
| <b>Remark:</b><br>1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit<br>2. If peak below the average limit, the average emission was no test.<br>3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value<br>has no need to be reported. |           |                  |                   |               |                   |                   |          |        |                  |



802.11ax 40

| Polar<br>(H/V)                                                                                                                                                                                                                                                                                                                                         | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Pre-<br>amplifier<br>(dB) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------------------------|--------------------|----------------|------------------|
| operation frequency:5190                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 10380              | 57.92                      | 49.07                     | 15.33                 | 37.41                       | 61.59                         | 74                 | -12.41         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 10380              | 46.17                      | 49.07                     | 15.33                 | 37.41                       | 49.84                         | 54                 | -4.16          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15570              | 57.39                      | 49.17                     | 15.28                 | 40.46                       | 63.96                         | 74                 | -10.04         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15570              | 44.26                      | 49.17                     | 15.28                 | 40.46                       | 50.83                         | 54                 | -3.17          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10380              | 57.79                      | 49.07                     | 15.33                 | 37.41                       | 61.46                         | 74                 | -12.54         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10380              | 46.23                      | 49.07                     | 15.33                 | 37.41                       | 49.90                         | 54                 | -4.10          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15570              | 55.76                      | 49.17                     | 15.28                 | 40.46                       | 62.33                         | 74                 | -11.67         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15570              | 45.13                      | 49.17                     | 15.28                 | 40.46                       | 51.70                         | 54                 | -2.30          | AV               |
| operation frequency:5230                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 10460              | 58.35                      | 49.11                     | 15.37                 | 37.46                       | 62.07                         | 74                 | -11.93         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 10460              | 45.36                      | 49.11                     | 15.37                 | 37.46                       | 49.08                         | 54                 | -4.92          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15690              | 55.52                      | 49.21                     | 15.34                 | 40.51                       | 62.16                         | 74                 | -11.84         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15690              | 44.21                      | 49.21                     | 15.34                 | 40.51                       | 50.85                         | 54                 | -3.15          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10460              | 58.52                      | 49.11                     | 15.37                 | 31.31                       | 56.09                         | 74                 | -17.91         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10460              | 45.72                      | 49.11                     | 15.37                 | 31.31                       | 43.29                         | 54                 | -10.71         | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15690              | 56.49                      | 49.21                     | 15.34                 | 40.51                       | 63.13                         | 74                 | -10.87         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15690              | 44.94                      | 49.21                     | 15.34                 | 40.51                       | 51.58                         | 54                 | -2.42          | AV               |
| <b>Remark:</b><br>1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit<br>2. If peak below the average limit, the average emission was no test.<br>3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. |                    |                            |                           |                       |                             |                               |                    |                |                  |



802.11n HT40

| Polar<br>(H/V)                                                                                                                                                                                                                                                                                                                                         | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Pre-<br>amplifier<br>(dB) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------------------------|--------------------|----------------|------------------|
| operation frequency:5190                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 10380              | 57.64                      | 49.07                     | 15.33                 | 37.41                       | 61.31                         | 74                 | -12.69         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 10380              | 45.94                      | 49.07                     | 15.33                 | 37.41                       | 49.61                         | 54                 | -4.39          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15570              | 57.11                      | 49.17                     | 15.28                 | 40.46                       | 63.68                         | 74                 | -10.32         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15570              | 44.04                      | 49.17                     | 15.28                 | 40.46                       | 50.61                         | 54                 | -3.39          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10380              | 57.51                      | 49.07                     | 15.33                 | 37.41                       | 61.18                         | 74                 | -12.82         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10380              | 46.00                      | 49.07                     | 15.33                 | 37.41                       | 49.67                         | 54                 | -4.33          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15570              | 55.48                      | 49.17                     | 15.28                 | 40.46                       | 62.05                         | 74                 | -11.95         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15570              | 44.91                      | 49.17                     | 15.28                 | 40.46                       | 51.48                         | 54                 | -2.52          | AV               |
| operation frequency:5230                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 10460              | 58.06                      | 49.11                     | 15.37                 | 37.46                       | 61.78                         | 74                 | -12.22         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 10460              | 45.14                      | 49.11                     | 15.37                 | 37.46                       | 48.86                         | 54                 | -5.14          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15690              | 55.25                      | 49.21                     | 15.34                 | 40.51                       | 61.89                         | 74                 | -12.11         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15690              | 43.99                      | 49.21                     | 15.34                 | 40.51                       | 50.63                         | 54                 | -3.37          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10460              | 58.24                      | 49.11                     | 15.37                 | 31.31                       | 55.81                         | 74                 | -18.19         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10460              | 45.50                      | 49.11                     | 15.37                 | 31.31                       | 43.07                         | 54                 | -10.93         | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15690              | 56.22                      | 49.21                     | 15.34                 | 40.51                       | 62.86                         | 74                 | -11.14         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15690              | 44.72                      | 49.21                     | 15.34                 | 40.51                       | 51.36                         | 54                 | -2.64          | AV               |
| <b>Remark:</b><br>1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit<br>2. If peak below the average limit, the average emission was no test.<br>3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. |                    |                            |                           |                       |                             |                               |                    |                |                  |



For MIMO mode

802.11ac20

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5180 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10360     | 57.95            | 49.05             | 15.3          | 37.39             | 61.59             | 74       | -12.41 | PK               |
| V                        | 10360     | 46.45            | 49.05             | 15.3          | 37.39             | 50.09             | 54       | -3.91  | AV               |
| V                        | 15540     | 58.13            | 49.16             | 15.27         | 40.45             | 64.69             | 74       | -9.31  | PK               |
| V                        | 15540     | 44.70            | 49.16             | 15.27         | 40.45             | 51.26             | 54       | -2.74  | AV               |
| H                        | 10360     | 57.56            | 49.05             | 15.3          | 37.39             | 61.20             | 74       | -12.80 | PK               |
| H                        | 10360     | 46.61            | 49.05             | 15.3          | 37.39             | 50.25             | 54       | -3.75  | AV               |
| H                        | 15540     | 60.68            | 49.16             | 15.27         | 40.45             | 67.24             | 74       | -6.76  | PK               |
| H                        | 15540     | 44.20            | 49.16             | 15.27         | 40.45             | 50.76             | 54       | -3.24  | AV               |
| operation frequency:5200 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10400     | 58.98            | 49.09             | 15.34         | 37.42             | 62.65             | 74       | -11.35 | PK               |
| V                        | 10400     | 46.51            | 49.09             | 15.34         | 37.42             | 50.18             | 54       | -3.82  | AV               |
| V                        | 15600     | 61.00            | 49.18             | 15.29         | 40.47             | 67.58             | 74       | -6.42  | PK               |
| V                        | 15600     | 44.24            | 49.18             | 15.29         | 40.47             | 50.82             | 54       | -3.18  | AV               |
| H                        | 10400     | 58.18            | 49.09             | 15.34         | 37.42             | 61.85             | 74       | -12.15 | PK               |
| H                        | 10400     | 46.95            | 49.09             | 15.34         | 37.42             | 50.62             | 54       | -3.38  | AV               |
| H                        | 15600     | 61.00            | 49.18             | 15.29         | 40.47             | 67.58             | 74       | -6.42  | PK               |
| H                        | 15600     | 44.50            | 49.18             | 15.29         | 40.47             | 51.08             | 54       | -2.92  | AV               |
| operation frequency:5240 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10480     | 60.06            | 49.11             | 15.37         | 37.46             | 63.78             | 74       | -10.22 | PK               |
| V                        | 10480     | 46.53            | 49.11             | 15.37         | 37.46             | 50.25             | 54       | -3.75  | AV               |
| V                        | 15720     | 60.71            | 49.21             | 15.34         | 40.51             | 67.35             | 74       | -6.65  | PK               |
| V                        | 15720     | 44.51            | 49.21             | 15.34         | 40.51             | 51.15             | 54       | -2.85  | AV               |
| H                        | 10480     | 58.52            | 49.11             | 15.37         | 31.31             | 56.09             | 74       | -17.91 | PK               |
| H                        | 10480     | 46.74            | 49.11             | 15.37         | 31.31             | 44.31             | 54       | -9.69  | AV               |
| H                        | 15720     | 58.96            | 49.21             | 15.34         | 40.51             | 65.60             | 74       | -8.40  | PK               |
| H                        | 15720     | 43.67            | 49.21             | 15.34         | 40.51             | 50.31             | 54       | -3.69  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11ax20 band 1

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5180 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10360     | 57.60            | 49.05             | 15.3          | 37.39             | 61.24             | 74       | -12.76 | PK               |
| V                        | 10360     | 46.17            | 49.05             | 15.3          | 37.39             | 49.81             | 54       | -4.19  | AV               |
| V                        | 15540     | 57.79            | 49.16             | 15.27         | 40.45             | 64.35             | 74       | -9.65  | PK               |
| V                        | 15540     | 44.44            | 49.16             | 15.27         | 40.45             | 51.00             | 54       | -3.00  | AV               |
| H                        | 10360     | 57.23            | 49.05             | 15.3          | 37.39             | 60.87             | 74       | -13.13 | PK               |
| H                        | 10360     | 46.33            | 49.05             | 15.3          | 37.39             | 49.97             | 54       | -4.03  | AV               |
| H                        | 15540     | 60.33            | 49.16             | 15.27         | 40.45             | 66.89             | 74       | -7.11  | PK               |
| H                        | 15540     | 43.94            | 49.16             | 15.27         | 40.45             | 50.50             | 54       | -3.50  | AV               |
| operation frequency:5200 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10400     | 58.62            | 49.09             | 15.34         | 37.42             | 62.29             | 74       | -11.71 | PK               |
| V                        | 10400     | 46.23            | 49.09             | 15.34         | 37.42             | 49.90             | 54       | -4.10  | AV               |
| V                        | 15600     | 60.63            | 49.18             | 15.29         | 40.47             | 67.21             | 74       | -6.79  | PK               |
| V                        | 15600     | 43.98            | 49.18             | 15.29         | 40.47             | 50.56             | 54       | -3.44  | AV               |
| H                        | 10400     | 57.84            | 49.09             | 15.34         | 37.42             | 61.51             | 74       | -12.49 | PK               |
| H                        | 10400     | 46.67            | 49.09             | 15.34         | 37.42             | 50.34             | 54       | -3.66  | AV               |
| H                        | 15600     | 60.63            | 49.18             | 15.29         | 40.47             | 67.21             | 74       | -6.79  | PK               |
| H                        | 15600     | 44.23            | 49.18             | 15.29         | 40.47             | 50.81             | 54       | -3.19  | AV               |
| operation frequency:5240 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10480     | 59.71            | 49.11             | 15.37         | 37.46             | 63.43             | 74       | -10.57 | PK               |
| V                        | 10480     | 46.25            | 49.11             | 15.37         | 37.46             | 49.97             | 54       | -4.03  | AV               |
| V                        | 15720     | 60.35            | 49.21             | 15.34         | 40.51             | 66.99             | 74       | -7.01  | PK               |
| V                        | 15720     | 44.24            | 49.21             | 15.34         | 40.51             | 50.88             | 54       | -3.12  | AV               |
| H                        | 10480     | 58.18            | 49.11             | 15.37         | 31.31             | 55.75             | 74       | -18.25 | PK               |
| H                        | 10480     | 46.47            | 49.11             | 15.37         | 31.31             | 44.04             | 54       | -9.96  | AV               |
| H                        | 15720     | 58.60            | 49.21             | 15.34         | 40.51             | 65.24             | 74       | -8.76  | PK               |
| H                        | 15720     | 43.42            | 49.21             | 15.34         | 40.51             | 50.06             | 54       | -3.94  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n HT20

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5180 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10360     | 57.88            | 49.05             | 15.3          | 37.39             | 61.52             | 74       | -12.48 | PK               |
| V                        | 10360     | 46.60            | 49.05             | 15.3          | 37.39             | 50.24             | 54       | -3.76  | AV               |
| V                        | 15540     | 57.39            | 49.16             | 15.27         | 40.45             | 63.95             | 74       | -10.05 | PK               |
| V                        | 15540     | 44.21            | 49.16             | 15.27         | 40.45             | 50.77             | 54       | -3.23  | AV               |
| H                        | 10360     | 57.80            | 49.05             | 15.3          | 37.39             | 61.44             | 74       | -12.56 | PK               |
| H                        | 10360     | 46.23            | 49.05             | 15.3          | 37.39             | 49.87             | 54       | -4.13  | AV               |
| H                        | 15540     | 55.24            | 49.16             | 15.27         | 40.45             | 61.80             | 74       | -12.20 | PK               |
| H                        | 15540     | 44.24            | 49.16             | 15.27         | 40.45             | 50.80             | 54       | -3.20  | AV               |
| operation frequency:5200 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10400     | 57.40            | 49.09             | 15.34         | 37.42             | 61.07             | 74       | -12.93 | PK               |
| V                        | 10400     | 45.68            | 49.09             | 15.34         | 37.42             | 49.35             | 54       | -4.65  | AV               |
| V                        | 15600     | 56.47            | 49.18             | 15.29         | 40.47             | 63.05             | 74       | -10.95 | PK               |
| V                        | 15600     | 44.31            | 49.18             | 15.29         | 40.47             | 50.89             | 54       | -3.11  | AV               |
| H                        | 10400     | 56.69            | 49.09             | 15.34         | 37.42             | 60.36             | 74       | -13.64 | PK               |
| H                        | 10400     | 44.20            | 49.09             | 15.34         | 37.42             | 47.87             | 54       | -6.13  | AV               |
| H                        | 15600     | 56.18            | 49.18             | 15.29         | 40.47             | 62.76             | 74       | -11.24 | PK               |
| H                        | 15600     | 44.28            | 49.18             | 15.29         | 40.47             | 50.86             | 54       | -3.14  | AV               |
| operation frequency:5240 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10480     | 57.69            | 49.11             | 15.37         | 37.46             | 61.41             | 74       | -12.59 | PK               |
| V                        | 10480     | 45.54            | 49.11             | 15.37         | 37.46             | 49.26             | 54       | -4.74  | AV               |
| V                        | 15720     | 55.46            | 49.21             | 15.34         | 40.51             | 62.10             | 74       | -11.90 | PK               |
| V                        | 15720     | 44.35            | 49.21             | 15.34         | 40.51             | 50.99             | 54       | -3.01  | AV               |
| H                        | 10480     | 57.73            | 49.11             | 15.37         | 31.31             | 55.30             | 74       | -18.70 | PK               |
| H                        | 10480     | 45.55            | 49.11             | 15.37         | 31.31             | 43.12             | 54       | -10.88 | AV               |
| H                        | 15720     | 56.46            | 49.21             | 15.34         | 40.51             | 63.10             | 74       | -10.90 | PK               |
| H                        | 15720     | 44.14            | 49.21             | 15.34         | 40.51             | 50.78             | 54       | -3.22  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5190 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10380     | 58.90            | 49.07             | 15.33         | 37.41             | 62.57             | 74       | -11.43 | PK               |
| V                        | 10380     | 46.95            | 49.07             | 15.33         | 37.41             | 50.62             | 54       | -3.38  | AV               |
| V                        | 15570     | 58.35            | 49.17             | 15.28         | 40.46             | 64.92             | 74       | -9.08  | PK               |
| V                        | 15570     | 45.00            | 49.17             | 15.28         | 40.46             | 51.57             | 54       | -2.43  | AV               |
| H                        | 10380     | 58.76            | 49.07             | 15.33         | 37.41             | 62.43             | 74       | -11.57 | PK               |
| H                        | 10380     | 47.01            | 49.07             | 15.33         | 37.41             | 50.68             | 54       | -3.32  | AV               |
| H                        | 15570     | 56.70            | 49.17             | 15.28         | 40.46             | 63.27             | 74       | -10.73 | PK               |
| H                        | 15570     | 44.38            | 49.17             | 15.28         | 40.46             | 50.95             | 54       | -3.05  | AV               |
| operation frequency:5230 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10460     | 59.33            | 49.11             | 15.37         | 37.46             | 63.05             | 74       | -10.95 | PK               |
| V                        | 10460     | 46.12            | 49.11             | 15.37         | 37.46             | 49.84             | 54       | -4.16  | AV               |
| V                        | 15690     | 56.45            | 49.21             | 15.34         | 40.51             | 63.09             | 74       | -10.91 | PK               |
| V                        | 15690     | 44.95            | 49.21             | 15.34         | 40.51             | 51.59             | 54       | -2.41  | AV               |
| H                        | 10460     | 59.50            | 49.11             | 15.37         | 31.31             | 57.07             | 74       | -16.93 | PK               |
| H                        | 10460     | 46.49            | 49.11             | 15.37         | 31.31             | 44.06             | 54       | -9.94  | AV               |
| H                        | 15690     | 57.44            | 49.21             | 15.34         | 40.51             | 64.08             | 74       | -9.92  | PK               |
| H                        | 15690     | 44.49            | 49.21             | 15.34         | 40.51             | 51.13             | 54       | -2.87  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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| Polar<br>(H/V)                                                                                                                                                                                                                                                                                                                                         | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Pre-<br>amplifier<br>(dB) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------------------------|--------------------|----------------|------------------|
| operation frequency:5190                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 10380              | 58.49                      | 49.07                     | 15.33                 | 37.41                       | 62.16                         | 74                 | -11.84         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 10380              | 46.63                      | 49.07                     | 15.33                 | 37.41                       | 50.30                         | 54                 | -3.70          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15570              | 57.96                      | 49.17                     | 15.28                 | 40.46                       | 64.53                         | 74                 | -9.47          | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15570              | 44.70                      | 49.17                     | 15.28                 | 40.46                       | 51.27                         | 54                 | -2.73          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10380              | 58.36                      | 49.07                     | 15.33                 | 37.41                       | 62.03                         | 74                 | -11.97         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10380              | 46.69                      | 49.07                     | 15.33                 | 37.41                       | 50.36                         | 54                 | -3.64          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15570              | 56.31                      | 49.17                     | 15.28                 | 40.46                       | 62.88                         | 74                 | -11.12         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15570              | 44.58                      | 49.17                     | 15.28                 | 40.46                       | 51.15                         | 54                 | -2.85          | AV               |
| operation frequency:5230                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 10460              | 58.93                      | 49.11                     | 15.37                 | 37.46                       | 62.65                         | 74                 | -11.35         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 10460              | 45.81                      | 49.11                     | 15.37                 | 37.46                       | 49.53                         | 54                 | -4.47          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15690              | 56.07                      | 49.21                     | 15.34                 | 40.51                       | 62.71                         | 74                 | -11.29         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15690              | 44.65                      | 49.21                     | 15.34                 | 40.51                       | 51.29                         | 54                 | -2.71          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10460              | 59.10                      | 49.11                     | 15.37                 | 31.31                       | 56.67                         | 74                 | -17.33         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10460              | 46.17                      | 49.11                     | 15.37                 | 31.31                       | 43.74                         | 54                 | -10.26         | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15690              | 57.05                      | 49.21                     | 15.34                 | 40.51                       | 63.69                         | 74                 | -10.31         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15690              | 44.38                      | 49.21                     | 15.34                 | 40.51                       | 51.02                         | 54                 | -2.98          | AV               |
| <b>Remark:</b><br>1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit<br>2. If peak below the average limit, the average emission was no test.<br>3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. |                    |                            |                           |                       |                             |                               |                    |                |                  |



802.11n HT40

| Polar<br>(H/V)                                                                                                                                                                                                                                                                                                                                         | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Pre-<br>amplifier<br>(dB) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------------------------|--------------------|----------------|------------------|
| operation frequency:5190                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 10380              | 58.21                      | 49.07                     | 15.33                 | 37.41                       | 61.88                         | 74                 | -12.12         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 10380              | 46.39                      | 49.07                     | 15.33                 | 37.41                       | 50.06                         | 54                 | -3.94          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15570              | 57.68                      | 49.17                     | 15.28                 | 40.46                       | 64.25                         | 74                 | -9.75          | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15570              | 44.48                      | 49.17                     | 15.28                 | 40.46                       | 51.05                         | 54                 | -2.95          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10380              | 58.08                      | 49.07                     | 15.33                 | 37.41                       | 61.75                         | 74                 | -12.25         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10380              | 46.46                      | 49.07                     | 15.33                 | 37.41                       | 50.13                         | 54                 | -3.87          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15570              | 56.03                      | 49.17                     | 15.28                 | 40.46                       | 62.60                         | 74                 | -11.40         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15570              | 44.35                      | 49.17                     | 15.28                 | 40.46                       | 50.92                         | 54                 | -3.08          | AV               |
| operation frequency:5230                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 10460              | 58.63                      | 49.11                     | 15.37                 | 37.46                       | 62.35                         | 74                 | -11.65         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 10460              | 45.59                      | 49.11                     | 15.37                 | 37.46                       | 49.31                         | 54                 | -4.69          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15690              | 55.80                      | 49.21                     | 15.34                 | 40.51                       | 62.44                         | 74                 | -11.56         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15690              | 44.43                      | 49.21                     | 15.34                 | 40.51                       | 51.07                         | 54                 | -2.93          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10460              | 58.82                      | 49.11                     | 15.37                 | 31.31                       | 56.39                         | 74                 | -17.61         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10460              | 45.95                      | 49.11                     | 15.37                 | 31.31                       | 43.52                         | 54                 | -10.48         | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15690              | 56.78                      | 49.21                     | 15.34                 | 40.51                       | 63.42                         | 74                 | -10.58         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15690              | 44.56                      | 49.21                     | 15.34                 | 40.51                       | 51.20                         | 54                 | -2.80          | AV               |
| <b>Remark:</b><br>1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit<br>2. If peak below the average limit, the average emission was no test.<br>3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. |                    |                            |                           |                       |                             |                               |                    |                |                  |



band 4  
802.11a

| Polar<br>(H/V)                                                                                                                                                                                                                                                                                                                                            | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                                                                                                                                                                                                                                                                                                                                                           | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5745                                                                                                                                                                                                                                                                                                                                  |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                                                                                                                                                                                                                                         | 11490     | 59.15            | 49.05             | 15.3          | 37.39             | 62.79             | 74       | -11.21 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 11490     | 46.65            | 49.05             | 15.3          | 37.39             | 50.29             | 54       | -3.71  | AV               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17235     | 57.95            | 49.16             | 15.27         | 40.45             | 64.51             | 74       | -9.49  | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17235     | 44.14            | 49.16             | 15.27         | 40.45             | 51.70             | 54       | -2.30  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11490     | 57.50            | 49.05             | 15.3          | 37.39             | 61.14             | 74       | -12.86 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11490     | 46.88            | 49.05             | 15.3          | 37.39             | 50.52             | 54       | -3.48  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17235     | 61.20            | 49.16             | 15.27         | 40.45             | 67.76             | 74       | -6.24  | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17235     | 44.60            | 49.16             | 15.27         | 40.45             | 51.16             | 54       | -2.84  | AV               |
| operation frequency:5785                                                                                                                                                                                                                                                                                                                                  |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                                                                                                                                                                                                                                         | 11570     | 59.34            | 49.09             | 15.34         | 37.42             | 63.01             | 74       | -10.99 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 11570     | 46.67            | 49.09             | 15.34         | 37.42             | 50.34             | 54       | -3.66  | AV               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17355     | 61.30            | 49.18             | 15.29         | 40.47             | 67.88             | 74       | -6.12  | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17355     | 44.41            | 49.18             | 15.29         | 40.47             | 50.99             | 54       | -3.01  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11570     | 58.43            | 49.09             | 15.34         | 37.42             | 62.10             | 74       | -11.90 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11570     | 46.73            | 49.09             | 15.34         | 37.42             | 50.40             | 54       | -3.60  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17355     | 53.79            | 49.18             | 15.29         | 40.47             | 60.37             | 74       | -13.63 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17355     | 45.01            | 49.18             | 15.29         | 40.47             | 51.59             | 54       | -2.41  | AV               |
| operation frequency:5825                                                                                                                                                                                                                                                                                                                                  |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                                                                                                                                                                                                                                         | 11650     | 60.01            | 49.11             | 15.37         | 37.46             | 63.73             | 74       | -10.27 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 11650     | 46.98            | 49.11             | 15.37         | 37.46             | 50.70             | 54       | -3.30  | AV               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17475     | 61.32            | 49.21             | 15.34         | 40.51             | 67.96             | 74       | -6.04  | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17475     | 44.70            | 49.21             | 15.34         | 40.51             | 51.34             | 54       | -2.66  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11650     | 58.91            | 49.11             | 15.37         | 31.31             | 56.48             | 74       | -17.52 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11650     | 46.98            | 49.11             | 15.37         | 31.31             | 44.55             | 54       | -9.45  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17475     | 59.14            | 49.21             | 15.34         | 40.51             | 65.78             | 74       | -8.22  | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17475     | 43.68            | 49.21             | 15.34         | 40.51             | 50.32             | 54       | -3.68  | AV               |
| <b>Remark:</b><br>1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit<br>2. If peak below the average limit, the average emission was no test.<br>3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value<br>has no need to be reported. |           |                  |                   |               |                   |                   |          |        |                  |



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| Polar<br>(H/V)                                                                                                                           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                                                                                                                                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5745                                                                                                                 |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                        | 11490     | 58.92            | 49.05             | 15.3          | 37.39             | 62.56             | 74       | -11.44 | PK               |
| V                                                                                                                                        | 11490     | 46.47            | 49.05             | 15.3          | 37.39             | 50.11             | 54       | -3.89  | AV               |
| V                                                                                                                                        | 17235     | 57.72            | 49.16             | 15.27         | 40.45             | 64.28             | 74       | -9.72  | PK               |
| V                                                                                                                                        | 17235     | 44.96            | 49.16             | 15.27         | 40.45             | 51.52             | 54       | -2.48  | AV               |
| H                                                                                                                                        | 11490     | 57.28            | 49.05             | 15.3          | 37.39             | 60.92             | 74       | -13.08 | PK               |
| H                                                                                                                                        | 11490     | 46.70            | 49.05             | 15.3          | 37.39             | 50.34             | 54       | -3.66  | AV               |
| H                                                                                                                                        | 17235     | 60.96            | 49.16             | 15.27         | 40.45             | 67.52             | 74       | -6.48  | PK               |
| H                                                                                                                                        | 17235     | 44.43            | 49.16             | 15.27         | 40.45             | 50.99             | 54       | -3.01  | AV               |
| operation frequency:5785                                                                                                                 |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                        | 11570     | 59.11            | 49.09             | 15.34         | 37.42             | 62.78             | 74       | -11.22 | PK               |
| V                                                                                                                                        | 11570     | 46.49            | 49.09             | 15.34         | 37.42             | 50.16             | 54       | -3.84  | AV               |
| V                                                                                                                                        | 17355     | 61.06            | 49.18             | 15.29         | 40.47             | 67.64             | 74       | -6.36  | PK               |
| V                                                                                                                                        | 17355     | 44.23            | 49.18             | 15.29         | 40.47             | 50.81             | 54       | -3.19  | AV               |
| H                                                                                                                                        | 11570     | 58.21            | 49.09             | 15.34         | 37.42             | 61.88             | 74       | -12.12 | PK               |
| H                                                                                                                                        | 11570     | 46.55            | 49.09             | 15.34         | 37.42             | 50.22             | 54       | -3.78  | AV               |
| H                                                                                                                                        | 17355     | 53.58            | 49.18             | 15.29         | 40.47             | 60.16             | 74       | -13.84 | PK               |
| H                                                                                                                                        | 17355     | 44.83            | 49.18             | 15.29         | 40.47             | 51.41             | 54       | -2.59  | AV               |
| operation frequency:5825                                                                                                                 |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                        | 11650     | 59.78            | 49.11             | 15.37         | 37.46             | 63.50             | 74       | -10.50 | PK               |
| V                                                                                                                                        | 11650     | 46.79            | 49.11             | 15.37         | 37.46             | 50.51             | 54       | -3.49  | AV               |
| V                                                                                                                                        | 17475     | 61.08            | 49.21             | 15.34         | 40.51             | 67.72             | 74       | -6.28  | PK               |
| V                                                                                                                                        | 17475     | 44.52            | 49.21             | 15.34         | 40.51             | 51.16             | 54       | -2.84  | AV               |
| H                                                                                                                                        | 11650     | 58.68            | 49.11             | 15.37         | 31.31             | 56.25             | 74       | -17.75 | PK               |
| H                                                                                                                                        | 11650     | 46.79            | 49.11             | 15.37         | 31.31             | 44.36             | 54       | -9.64  | AV               |
| H                                                                                                                                        | 17475     | 58.91            | 49.21             | 15.34         | 40.51             | 65.55             | 74       | -8.45  | PK               |
| H                                                                                                                                        | 17475     | 43.52            | 49.21             | 15.34         | 40.51             | 50.16             | 54       | -3.84  | AV               |
| Remark:                                                                                                                                  |           |                  |                   |               |                   |                   |          |        |                  |
| 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit                       |           |                  |                   |               |                   |                   |          |        |                  |
| 2. If peak below the average limit, the average emission was no test.                                                                    |           |                  |                   |               |                   |                   |          |        |                  |
| 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value<br>has no need to be reported. |           |                  |                   |               |                   |                   |          |        |                  |



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| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5745 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11490     | 58.52            | 49.05             | 15.3          | 37.39             | 62.16             | 74       | -11.84 | PK               |
| V                        | 11490     | 46.15            | 49.05             | 15.3          | 37.39             | 49.79             | 54       | -4.21  | AV               |
| V                        | 17235     | 57.33            | 49.16             | 15.27         | 40.45             | 63.89             | 74       | -10.11 | PK               |
| V                        | 17235     | 44.66            | 49.16             | 15.27         | 40.45             | 51.22             | 54       | -2.78  | AV               |
| H                        | 11490     | 56.89            | 49.05             | 15.3          | 37.39             | 60.53             | 74       | -13.47 | PK               |
| H                        | 11490     | 46.38            | 49.05             | 15.3          | 37.39             | 50.02             | 54       | -3.98  | AV               |
| H                        | 17235     | 60.55            | 49.16             | 15.27         | 40.45             | 67.11             | 74       | -6.89  | PK               |
| H                        | 17235     | 44.13            | 49.16             | 15.27         | 40.45             | 50.69             | 54       | -3.31  | AV               |
| operation frequency:5785 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11570     | 58.71            | 49.09             | 15.34         | 37.42             | 62.38             | 74       | -11.62 | PK               |
| V                        | 11570     | 46.17            | 49.09             | 15.34         | 37.42             | 49.84             | 54       | -4.16  | AV               |
| V                        | 17355     | 60.65            | 49.18             | 15.29         | 40.47             | 67.23             | 74       | -6.77  | PK               |
| V                        | 17355     | 43.93            | 49.18             | 15.29         | 40.47             | 50.51             | 54       | -3.49  | AV               |
| H                        | 11570     | 57.81            | 49.09             | 15.34         | 37.42             | 61.48             | 74       | -12.52 | PK               |
| H                        | 11570     | 46.23            | 49.09             | 15.34         | 37.42             | 49.90             | 54       | -4.10  | AV               |
| H                        | 17355     | 53.21            | 49.18             | 15.29         | 40.47             | 59.79             | 74       | -14.21 | PK               |
| H                        | 17355     | 44.53            | 49.18             | 15.29         | 40.47             | 51.11             | 54       | -2.89  | AV               |
| operation frequency:5825 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11650     | 59.37            | 49.11             | 15.37         | 37.46             | 63.09             | 74       | -10.91 | PK               |
| V                        | 11650     | 46.48            | 49.11             | 15.37         | 37.46             | 50.20             | 54       | -3.80  | AV               |
| V                        | 17475     | 60.67            | 49.21             | 15.34         | 40.51             | 67.31             | 74       | -6.69  | PK               |
| V                        | 17475     | 44.22            | 49.21             | 15.34         | 40.51             | 50.86             | 54       | -3.14  | AV               |
| H                        | 11650     | 58.28            | 49.11             | 15.37         | 31.31             | 55.85             | 74       | -18.15 | PK               |
| H                        | 11650     | 46.48            | 49.11             | 15.37         | 31.31             | 44.05             | 54       | -9.95  | AV               |
| H                        | 17475     | 58.51            | 49.21             | 15.34         | 40.51             | 65.15             | 74       | -8.85  | PK               |
| H                        | 17475     | 43.22            | 49.21             | 15.34         | 40.51             | 49.86             | 54       | -4.14  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n HT20

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5745 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11490     | 57.77            | 49.05             | 15.3          | 37.39             | 61.41             | 74       | -12.59 | PK               |
| V                        | 11490     | 46.53            | 49.05             | 15.3          | 37.39             | 50.17             | 54       | -3.83  | AV               |
| V                        | 17235     | 57.14            | 49.16             | 15.27         | 40.45             | 63.70             | 74       | -10.30 | PK               |
| V                        | 17235     | 44.10            | 49.16             | 15.27         | 40.45             | 50.66             | 54       | -3.34  | AV               |
| H                        | 11490     | 57.42            | 49.05             | 15.3          | 37.39             | 61.06             | 74       | -12.94 | PK               |
| H                        | 11490     | 46.46            | 49.05             | 15.3          | 37.39             | 50.10             | 54       | -3.90  | AV               |
| H                        | 17235     | 55.30            | 49.16             | 15.27         | 40.45             | 61.86             | 74       | -12.14 | PK               |
| H                        | 17235     | 44.91            | 49.16             | 15.27         | 40.45             | 51.47             | 54       | -2.53  | AV               |
| operation frequency:5785 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11570     | 57.72            | 49.09             | 15.34         | 37.42             | 61.39             | 74       | -12.61 | PK               |
| V                        | 11570     | 45.61            | 49.09             | 15.34         | 37.42             | 49.28             | 54       | -4.72  | AV               |
| V                        | 17355     | 56.32            | 49.18             | 15.29         | 40.47             | 62.90             | 74       | -11.10 | PK               |
| V                        | 17355     | 44.10            | 49.18             | 15.29         | 40.47             | 50.68             | 54       | -3.32  | AV               |
| H                        | 11570     | 56.20            | 49.09             | 15.34         | 37.42             | 59.87             | 74       | -14.13 | PK               |
| H                        | 11570     | 44.30            | 49.09             | 15.34         | 37.42             | 47.97             | 54       | -6.03  | AV               |
| H                        | 17355     | 55.97            | 49.18             | 15.29         | 40.47             | 62.55             | 74       | -11.45 | PK               |
| H                        | 17355     | 43.98            | 49.18             | 15.29         | 40.47             | 50.56             | 54       | -3.44  | AV               |
| operation frequency:5825 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11650     | 58.24            | 49.11             | 15.37         | 37.46             | 61.96             | 74       | -12.04 | PK               |
| V                        | 11650     | 45.12            | 49.11             | 15.37         | 37.46             | 48.84             | 54       | -5.16  | AV               |
| V                        | 17475     | 55.38            | 49.21             | 15.34         | 40.51             | 62.02             | 74       | -11.98 | PK               |
| V                        | 17475     | 43.93            | 49.21             | 15.34         | 40.51             | 50.57             | 54       | -3.43  | AV               |
| H                        | 11650     | 58.47            | 49.11             | 15.37         | 31.31             | 56.04             | 74       | -17.96 | PK               |
| H                        | 11650     | 45.48            | 49.11             | 15.37         | 31.31             | 43.05             | 54       | -10.95 | AV               |
| H                        | 17475     | 56.09            | 49.21             | 15.34         | 40.51             | 62.73             | 74       | -11.27 | PK               |
| H                        | 17475     | 44.81            | 49.21             | 15.34         | 40.51             | 51.45             | 54       | -2.55  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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| Polar<br>(H/V)                                                                                                                                                                                                                                                                                                                                         | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Pre-<br>amplifier<br>(dB) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------------------------|--------------------|----------------|------------------|
| operation frequency:5755                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 11510              | 58.12                      | 49.07                     | 15.33                 | 37.41                       | 61.79                         | 74                 | -12.21         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 11510              | 46.49                      | 49.07                     | 15.33                 | 37.41                       | 50.16                         | 54                 | -3.84          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 17265              | 57.68                      | 49.17                     | 15.28                 | 40.46                       | 64.25                         | 74                 | -9.75          | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 17265              | 44.53                      | 49.17                     | 15.28                 | 40.46                       | 51.10                         | 54                 | -2.90          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 11510              | 57.77                      | 49.07                     | 15.33                 | 37.41                       | 61.44                         | 74                 | -12.56         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 11510              | 46.76                      | 49.07                     | 15.33                 | 37.41                       | 50.43                         | 54                 | -3.57          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 17265              | 55.86                      | 49.17                     | 15.28                 | 40.46                       | 62.43                         | 74                 | -11.57         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 17265              | 44.44                      | 49.17                     | 15.28                 | 40.46                       | 51.01                         | 54                 | -2.99          | AV               |
| operation frequency:5795                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 11590              | 59.12                      | 49.11                     | 15.37                 | 37.46                       | 62.84                         | 74                 | -11.16         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 11590              | 45.88                      | 49.11                     | 15.37                 | 37.46                       | 49.60                         | 54                 | -4.40          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 17385              | 56.04                      | 49.21                     | 15.34                 | 40.51                       | 62.68                         | 74                 | -11.32         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 17385              | 44.44                      | 49.21                     | 15.34                 | 40.51                       | 51.08                         | 54                 | -2.92          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 11590              | 59.14                      | 49.11                     | 15.37                 | 31.31                       | 56.71                         | 74                 | -17.29         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 11590              | 45.94                      | 49.11                     | 15.37                 | 31.31                       | 43.51                         | 54                 | -10.49         | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 17385              | 56.75                      | 49.21                     | 15.34                 | 40.51                       | 63.39                         | 74                 | -10.61         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 17385              | 44.21                      | 49.21                     | 15.34                 | 40.51                       | 50.85                         | 54                 | -3.15          | AV               |
| <b>Remark:</b><br>1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit<br>2. If peak below the average limit, the average emission was no test.<br>3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. |                    |                            |                           |                       |                             |                               |                    |                |                  |



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| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5755 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11510     | 57.73            | 49.07             | 15.33         | 37.41             | 61.40             | 74       | -12.60 | PK               |
| V                        | 11510     | 46.17            | 49.07             | 15.33         | 37.41             | 49.84             | 54       | -4.16  | AV               |
| V                        | 17265     | 57.29            | 49.17             | 15.28         | 40.46             | 63.86             | 74       | -10.14 | PK               |
| V                        | 17265     | 44.23            | 49.17             | 15.28         | 40.46             | 50.80             | 54       | -3.20  | AV               |
| H                        | 11510     | 57.38            | 49.07             | 15.33         | 37.41             | 61.05             | 74       | -12.95 | PK               |
| H                        | 11510     | 46.45            | 49.07             | 15.33         | 37.41             | 50.12             | 54       | -3.88  | AV               |
| H                        | 17265     | 55.48            | 49.17             | 15.28         | 40.46             | 62.05             | 74       | -11.95 | PK               |
| H                        | 17265     | 45.13            | 49.17             | 15.28         | 40.46             | 51.70             | 54       | -2.30  | AV               |
| operation frequency:5795 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11590     | 58.72            | 49.11             | 15.37         | 37.46             | 62.44             | 74       | -11.56 | PK               |
| V                        | 11590     | 45.57            | 49.11             | 15.37         | 37.46             | 49.29             | 54       | -4.71  | AV               |
| V                        | 17385     | 55.65            | 49.21             | 15.34         | 40.51             | 62.29             | 74       | -11.71 | PK               |
| V                        | 17385     | 44.14            | 49.21             | 15.34         | 40.51             | 50.78             | 54       | -3.22  | AV               |
| H                        | 11590     | 58.74            | 49.11             | 15.37         | 31.31             | 56.31             | 74       | -17.69 | PK               |
| H                        | 11590     | 45.63            | 49.11             | 15.37         | 31.31             | 43.20             | 54       | -10.80 | AV               |
| H                        | 17385     | 56.36            | 49.21             | 15.34         | 40.51             | 63.00             | 74       | -11.00 | PK               |
| H                        | 17385     | 44.90            | 49.21             | 15.34         | 40.51             | 51.54             | 54       | -2.46  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5755 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11510     | 57.50            | 49.07             | 15.33         | 37.41             | 61.17             | 74       | -12.83 | PK               |
| V                        | 11510     | 45.99            | 49.07             | 15.33         | 37.41             | 49.66             | 54       | -4.34  | AV               |
| V                        | 17265     | 57.06            | 49.17             | 15.28         | 40.46             | 63.63             | 74       | -10.37 | PK               |
| V                        | 17265     | 44.06            | 49.17             | 15.28         | 40.46             | 50.63             | 54       | -3.37  | AV               |
| H                        | 11510     | 57.16            | 49.07             | 15.33         | 37.41             | 60.83             | 74       | -13.17 | PK               |
| H                        | 11510     | 46.26            | 49.07             | 15.33         | 37.41             | 49.93             | 54       | -4.07  | AV               |
| H                        | 17265     | 55.26            | 49.17             | 15.28         | 40.46             | 61.83             | 74       | -12.17 | PK               |
| H                        | 17265     | 44.95            | 49.17             | 15.28         | 40.46             | 51.52             | 54       | -2.48  | AV               |
| operation frequency:5795 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11590     | 58.49            | 49.11             | 15.37         | 37.46             | 62.21             | 74       | -11.79 | PK               |
| V                        | 11590     | 45.39            | 49.11             | 15.37         | 37.46             | 49.11             | 54       | -4.89  | AV               |
| V                        | 17385     | 55.44            | 49.21             | 15.34         | 40.51             | 62.08             | 74       | -11.92 | PK               |
| V                        | 17385     | 43.96            | 49.21             | 15.34         | 40.51             | 50.60             | 54       | -3.40  | AV               |
| H                        | 11590     | 58.51            | 49.11             | 15.37         | 31.31             | 56.08             | 74       | -17.92 | PK               |
| H                        | 11590     | 45.45            | 49.11             | 15.37         | 31.31             | 43.02             | 54       | -10.98 | AV               |
| H                        | 17385     | 56.14            | 49.21             | 15.34         | 40.51             | 62.78             | 74       | -11.22 | PK               |
| H                        | 17385     | 44.73            | 49.21             | 15.34         | 40.51             | 51.37             | 54       | -2.63  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5210 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 10420     | 57.95            | 49.09             | 15.34         | 37.42             | 61.62             | 74       | -12.38 | PK               |
| V                        | 10420     | 46.35            | 49.09             | 15.34         | 37.42             | 50.02             | 54       | -3.98  | AV               |
| V                        | 15630     | 57.51            | 49.18             | 15.29         | 40.47             | 64.09             | 74       | -9.91  | PK               |
| V                        | 15630     | 44.40            | 49.18             | 15.29         | 40.47             | 50.98             | 54       | -3.02  | AV               |
| H                        | 10420     | 57.61            | 49.09             | 15.34         | 37.42             | 61.28             | 74       | -12.72 | PK               |
| H                        | 10420     | 46.63            | 49.09             | 15.34         | 37.42             | 50.30             | 54       | -3.70  | AV               |
| H                        | 15630     | 55.70            | 49.18             | 15.29         | 40.47             | 62.28             | 74       | -11.72 | PK               |
| H                        | 15630     | 45.31            | 49.18             | 15.29         | 40.47             | 51.89             | 54       | -2.11  | AV               |
| operation frequency:5775 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11550     | 58.95            | 49.11             | 15.37         | 37.46             | 62.67             | 74       | -11.33 | PK               |
| V                        | 11550     | 45.75            | 49.11             | 15.37         | 37.46             | 49.47             | 54       | -4.53  | AV               |
| V                        | 17325     | 55.87            | 49.21             | 15.34         | 40.51             | 62.51             | 74       | -11.49 | PK               |
| V                        | 17325     | 44.31            | 49.21             | 15.34         | 40.51             | 50.95             | 54       | -3.05  | AV               |
| H                        | 11550     | 58.97            | 49.11             | 15.37         | 31.31             | 56.54             | 74       | -17.46 | PK               |
| H                        | 11550     | 45.81            | 49.11             | 15.37         | 31.31             | 43.38             | 54       | -10.62 | AV               |
| H                        | 17325     | 56.58            | 49.21             | 15.34         | 40.51             | 63.22             | 74       | -10.78 | PK               |
| H                        | 17325     | 45.08            | 49.21             | 15.34         | 40.51             | 51.72             | 54       | -2.28  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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| Polar<br>(H/V)                                                                                                                                                                                                                                                                                                                                         | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Pre-<br>amplifier<br>(dB) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------------------------|--------------------|----------------|------------------|
| operation frequency:5210                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 10420              | 58.47                      | 49.09                     | 15.34                 | 37.42                       | 62.14                         | 74                 | -11.86         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 10420              | 46.77                      | 49.09                     | 15.34                 | 37.42                       | 50.44                         | 54                 | -3.56          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15630              | 58.03                      | 49.18                     | 15.29                 | 40.47                       | 64.61                         | 74                 | -9.39          | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15630              | 44.80                      | 49.18                     | 15.29                 | 40.47                       | 51.38                         | 54                 | -2.62          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10420              | 58.13                      | 49.09                     | 15.34                 | 37.42                       | 61.80                         | 74                 | -12.20         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10420              | 47.05                      | 49.09                     | 15.34                 | 37.42                       | 50.72                         | 54                 | -3.28          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15630              | 56.20                      | 49.18                     | 15.29                 | 40.47                       | 62.78                         | 74                 | -11.22         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15630              | 44.72                      | 49.18                     | 15.29                 | 40.47                       | 51.30                         | 54                 | -2.70          | AV               |
| operation frequency:5775                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 11550              | 59.48                      | 49.11                     | 15.37                 | 37.46                       | 63.20                         | 74                 | -10.80         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 11550              | 46.16                      | 49.11                     | 15.37                 | 37.46                       | 49.88                         | 54                 | -4.12          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 17325              | 56.37                      | 49.21                     | 15.34                 | 40.51                       | 63.01                         | 74                 | -10.99         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 17325              | 44.71                      | 49.21                     | 15.34                 | 40.51                       | 51.35                         | 54                 | -2.65          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 11550              | 59.50                      | 49.11                     | 15.37                 | 31.31                       | 57.07                         | 74                 | -16.93         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 11550              | 46.22                      | 49.11                     | 15.37                 | 31.31                       | 43.79                         | 54                 | -10.21         | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 17325              | 57.09                      | 49.21                     | 15.34                 | 40.51                       | 63.73                         | 74                 | -10.27         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 17325              | 44.49                      | 49.21                     | 15.34                 | 40.51                       | 51.13                         | 54                 | -2.87          | AV               |
| <b>Remark:</b><br>1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit<br>2. If peak below the average limit, the average emission was no test.<br>3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. |                    |                            |                           |                       |                             |                               |                    |                |                  |



For MIMO mode  
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| Polar<br>(H/V)                                                                                                                           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                                                                                                                                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5745                                                                                                                 |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                        | 11490     | 59.50            | 49.05             | 15.3          | 37.39             | 63.14             | 74       | -10.86 | PK               |
| V                                                                                                                                        | 11490     | 46.93            | 49.05             | 15.3          | 37.39             | 50.57             | 54       | -3.43  | AV               |
| V                                                                                                                                        | 17235     | 58.29            | 49.16             | 15.27         | 40.45             | 64.85             | 74       | -9.15  | PK               |
| V                                                                                                                                        | 17235     | 44.41            | 49.16             | 15.27         | 40.45             | 50.97             | 54       | -3.03  | AV               |
| H                                                                                                                                        | 11490     | 57.85            | 49.05             | 15.3          | 37.39             | 61.49             | 74       | -12.51 | PK               |
| H                                                                                                                                        | 11490     | 47.16            | 49.05             | 15.3          | 37.39             | 50.80             | 54       | -3.20  | AV               |
| H                                                                                                                                        | 17235     | 61.56            | 49.16             | 15.27         | 40.45             | 68.12             | 74       | -5.88  | PK               |
| H                                                                                                                                        | 17235     | 44.87            | 49.16             | 15.27         | 40.45             | 51.43             | 54       | -2.57  | AV               |
| operation frequency:5785                                                                                                                 |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                        | 11570     | 59.70            | 49.09             | 15.34         | 37.42             | 63.37             | 74       | -10.63 | PK               |
| V                                                                                                                                        | 11570     | 46.95            | 49.09             | 15.34         | 37.42             | 50.62             | 54       | -3.38  | AV               |
| V                                                                                                                                        | 17355     | 61.66            | 49.18             | 15.29         | 40.47             | 68.24             | 74       | -5.76  | PK               |
| V                                                                                                                                        | 17355     | 44.67            | 49.18             | 15.29         | 40.47             | 51.25             | 54       | -2.75  | AV               |
| H                                                                                                                                        | 11570     | 58.79            | 49.09             | 15.34         | 37.42             | 62.46             | 74       | -11.54 | PK               |
| H                                                                                                                                        | 11570     | 47.01            | 49.09             | 15.34         | 37.42             | 50.68             | 54       | -3.32  | AV               |
| H                                                                                                                                        | 17355     | 54.11            | 49.18             | 15.29         | 40.47             | 60.69             | 74       | -13.31 | PK               |
| H                                                                                                                                        | 17355     | 45.27            | 49.18             | 15.29         | 40.47             | 51.85             | 54       | -2.15  | AV               |
| operation frequency:5825                                                                                                                 |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                        | 11650     | 60.37            | 49.11             | 15.37         | 37.46             | 64.09             | 74       | -9.91  | PK               |
| V                                                                                                                                        | 11650     | 47.25            | 49.11             | 15.37         | 37.46             | 50.97             | 54       | -3.03  | AV               |
| V                                                                                                                                        | 17475     | 61.68            | 49.21             | 15.34         | 40.51             | 68.32             | 74       | -5.68  | PK               |
| V                                                                                                                                        | 17475     | 44.96            | 49.21             | 15.34         | 40.51             | 51.60             | 54       | -2.40  | AV               |
| H                                                                                                                                        | 11650     | 59.26            | 49.11             | 15.37         | 31.31             | 56.83             | 74       | -17.17 | PK               |
| H                                                                                                                                        | 11650     | 47.25            | 49.11             | 15.37         | 31.31             | 44.82             | 54       | -9.18  | AV               |
| H                                                                                                                                        | 17475     | 59.49            | 49.21             | 15.34         | 40.51             | 66.13             | 74       | -7.87  | PK               |
| H                                                                                                                                        | 17475     | 43.95            | 49.21             | 15.34         | 40.51             | 50.59             | 54       | -3.41  | AV               |
| Remark:                                                                                                                                  |           |                  |                   |               |                   |                   |          |        |                  |
| 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit                       |           |                  |                   |               |                   |                   |          |        |                  |
| 2. If peak below the average limit, the average emission was no test.                                                                    |           |                  |                   |               |                   |                   |          |        |                  |
| 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value<br>has no need to be reported. |           |                  |                   |               |                   |                   |          |        |                  |



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| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5745 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11490     | 59.10            | 49.05             | 15.3          | 37.39             | 62.74             | 74       | -11.26 | PK               |
| V                        | 11490     | 46.61            | 49.05             | 15.3          | 37.39             | 50.25             | 54       | -3.75  | AV               |
| V                        | 17235     | 57.90            | 49.16             | 15.27         | 40.45             | 64.46             | 74       | -9.54  | PK               |
| V                        | 17235     | 45.10            | 49.16             | 15.27         | 40.45             | 51.66             | 54       | -2.34  | AV               |
| H                        | 11490     | 57.45            | 49.05             | 15.3          | 37.39             | 61.09             | 74       | -12.91 | PK               |
| H                        | 11490     | 46.84            | 49.05             | 15.3          | 37.39             | 50.48             | 54       | -3.52  | AV               |
| H                        | 17235     | 61.15            | 49.16             | 15.27         | 40.45             | 67.71             | 74       | -6.29  | PK               |
| H                        | 17235     | 44.57            | 49.16             | 15.27         | 40.45             | 51.13             | 54       | -2.87  | AV               |
| operation frequency:5785 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11570     | 59.29            | 49.09             | 15.34         | 37.42             | 62.96             | 74       | -11.04 | PK               |
| V                        | 11570     | 46.63            | 49.09             | 15.34         | 37.42             | 50.30             | 54       | -3.70  | AV               |
| V                        | 17355     | 61.25            | 49.18             | 15.29         | 40.47             | 67.83             | 74       | -6.17  | PK               |
| V                        | 17355     | 44.36            | 49.18             | 15.29         | 40.47             | 50.94             | 54       | -3.06  | AV               |
| H                        | 11570     | 58.38            | 49.09             | 15.34         | 37.42             | 62.05             | 74       | -11.95 | PK               |
| H                        | 11570     | 46.69            | 49.09             | 15.34         | 37.42             | 50.36             | 54       | -3.64  | AV               |
| H                        | 17355     | 53.74            | 49.18             | 15.29         | 40.47             | 60.32             | 74       | -13.68 | PK               |
| H                        | 17355     | 44.87            | 49.18             | 15.29         | 40.47             | 51.45             | 54       | -2.55  | AV               |
| operation frequency:5825 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11650     | 59.96            | 49.11             | 15.37         | 37.46             | 63.68             | 74       | -10.32 | PK               |
| V                        | 11650     | 46.94            | 49.11             | 15.37         | 37.46             | 50.66             | 54       | -3.34  | AV               |
| V                        | 17475     | 61.27            | 49.21             | 15.34         | 40.51             | 67.91             | 74       | -6.09  | PK               |
| V                        | 17475     | 44.66            | 49.21             | 15.34         | 40.51             | 51.30             | 54       | -2.70  | AV               |
| H                        | 11650     | 58.86            | 49.11             | 15.37         | 31.31             | 56.43             | 74       | -17.57 | PK               |
| H                        | 11650     | 46.94            | 49.11             | 15.37         | 31.31             | 44.51             | 54       | -9.49  | AV               |
| H                        | 17475     | 59.09            | 49.21             | 15.34         | 40.51             | 65.73             | 74       | -8.27  | PK               |
| H                        | 17475     | 43.65            | 49.21             | 15.34         | 40.51             | 50.29             | 54       | -3.71  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5745 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11490     | 58.34            | 49.05             | 15.3          | 37.39             | 61.98             | 74       | -12.02 | PK               |
| V                        | 11490     | 46.99            | 49.05             | 15.3          | 37.39             | 50.63             | 54       | -3.37  | AV               |
| V                        | 17235     | 57.71            | 49.16             | 15.27         | 40.45             | 64.27             | 74       | -9.73  | PK               |
| V                        | 17235     | 44.54            | 49.16             | 15.27         | 40.45             | 51.10             | 54       | -2.90  | AV               |
| H                        | 11490     | 57.99            | 49.05             | 15.3          | 37.39             | 61.63             | 74       | -12.37 | PK               |
| H                        | 11490     | 46.92            | 49.05             | 15.3          | 37.39             | 50.56             | 54       | -3.44  | AV               |
| H                        | 17235     | 55.85            | 49.16             | 15.27         | 40.45             | 62.41             | 74       | -11.59 | PK               |
| H                        | 17235     | 44.35            | 49.16             | 15.27         | 40.45             | 50.91             | 54       | -3.09  | AV               |
| operation frequency:5785 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11570     | 58.29            | 49.09             | 15.34         | 37.42             | 61.96             | 74       | -12.04 | PK               |
| V                        | 11570     | 46.06            | 49.09             | 15.34         | 37.42             | 49.73             | 54       | -4.27  | AV               |
| V                        | 17355     | 56.88            | 49.18             | 15.29         | 40.47             | 63.46             | 74       | -10.54 | PK               |
| V                        | 17355     | 44.54            | 49.18             | 15.29         | 40.47             | 51.12             | 54       | -2.88  | AV               |
| H                        | 11570     | 56.76            | 49.09             | 15.34         | 37.42             | 60.43             | 74       | -13.57 | PK               |
| H                        | 11570     | 44.74            | 49.09             | 15.34         | 37.42             | 48.41             | 54       | -5.59  | AV               |
| H                        | 17355     | 56.52            | 49.18             | 15.29         | 40.47             | 63.10             | 74       | -10.90 | PK               |
| H                        | 17355     | 44.42            | 49.18             | 15.29         | 40.47             | 51.00             | 54       | -3.00  | AV               |
| operation frequency:5825 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11650     | 58.82            | 49.11             | 15.37         | 37.46             | 62.54             | 74       | -11.46 | PK               |
| V                        | 11650     | 45.57            | 49.11             | 15.37         | 37.46             | 49.29             | 54       | -4.71  | AV               |
| V                        | 17475     | 55.93            | 49.21             | 15.34         | 40.51             | 62.57             | 74       | -11.43 | PK               |
| V                        | 17475     | 44.36            | 49.21             | 15.34         | 40.51             | 51.00             | 54       | -3.00  | AV               |
| H                        | 11650     | 59.05            | 49.11             | 15.37         | 31.31             | 56.62             | 74       | -17.38 | PK               |
| H                        | 11650     | 45.93            | 49.11             | 15.37         | 31.31             | 43.50             | 54       | -10.50 | AV               |
| H                        | 17475     | 56.65            | 49.21             | 15.34         | 40.51             | 63.29             | 74       | -10.71 | PK               |
| H                        | 17475     | 44.25            | 49.21             | 15.34         | 40.51             | 50.89             | 54       | -3.11  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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| Polar<br>(H/V)                                                                                                                                                                                                                                                                                                                                            | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                                                                                                                                                                                                                                                                                                                                                           | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5755                                                                                                                                                                                                                                                                                                                                  |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                                                                                                                                                                                                                                         | 11510     | 58.70            | 49.07             | 15.33         | 37.41             | 62.37             | 74       | -11.63 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 11510     | 46.95            | 49.07             | 15.33         | 37.41             | 50.62             | 54       | -3.38  | AV               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17265     | 58.25            | 49.17             | 15.28         | 40.46             | 64.82             | 74       | -9.18  | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17265     | 44.97            | 49.17             | 15.28         | 40.46             | 51.54             | 54       | -2.46  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11510     | 58.34            | 49.07             | 15.33         | 37.41             | 62.01             | 74       | -11.99 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11510     | 47.22            | 49.07             | 15.33         | 37.41             | 50.89             | 54       | -3.11  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17265     | 56.41            | 49.17             | 15.28         | 40.46             | 62.98             | 74       | -11.02 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17265     | 44.88            | 49.17             | 15.28         | 40.46             | 51.45             | 54       | -2.55  | AV               |
| operation frequency:5795                                                                                                                                                                                                                                                                                                                                  |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                                                                                                                                                                                                                                         | 11590     | 59.71            | 49.11             | 15.37         | 37.46             | 63.43             | 74       | -10.57 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 11590     | 46.33            | 49.11             | 15.37         | 37.46             | 50.05             | 54       | -3.95  | AV               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17385     | 56.59            | 49.21             | 15.34         | 40.51             | 63.23             | 74       | -10.77 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17385     | 44.88            | 49.21             | 15.34         | 40.51             | 51.52             | 54       | -2.48  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11590     | 59.73            | 49.11             | 15.37         | 31.31             | 57.30             | 74       | -16.70 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11590     | 46.39            | 49.11             | 15.37         | 31.31             | 43.96             | 54       | -10.04 | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17385     | 57.31            | 49.21             | 15.34         | 40.51             | 63.95             | 74       | -10.05 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17385     | 44.65            | 49.21             | 15.34         | 40.51             | 51.29             | 54       | -2.71  | AV               |
| <b>Remark:</b><br>1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit<br>2. If peak below the average limit, the average emission was no test.<br>3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value<br>has no need to be reported. |           |                  |                   |               |                   |                   |          |        |                  |



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| Polar<br>(H/V)                                                                                                                                                                                                                                                                                                                                            | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                                                                                                                                                                                                                                                                                                                                                           | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5755                                                                                                                                                                                                                                                                                                                                  |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                                                                                                                                                                                                                                         | 11510     | 58.30            | 49.07             | 15.33         | 37.41             | 61.97             | 74       | -12.03 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 11510     | 46.63            | 49.07             | 15.33         | 37.41             | 50.30             | 54       | -3.70  | AV               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17265     | 57.86            | 49.17             | 15.28         | 40.46             | 64.43             | 74       | -9.57  | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17265     | 44.67            | 49.17             | 15.28         | 40.46             | 51.24             | 54       | -2.76  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11510     | 57.95            | 49.07             | 15.33         | 37.41             | 61.62             | 74       | -12.38 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11510     | 46.91            | 49.07             | 15.33         | 37.41             | 50.58             | 54       | -3.42  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17265     | 56.03            | 49.17             | 15.28         | 40.46             | 62.60             | 74       | -11.40 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17265     | 44.58            | 49.17             | 15.28         | 40.46             | 51.15             | 54       | -2.85  | AV               |
| operation frequency:5795                                                                                                                                                                                                                                                                                                                                  |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                                                                                                                                                                                                                                         | 11590     | 59.30            | 49.11             | 15.37         | 37.46             | 63.02             | 74       | -10.98 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 11590     | 46.02            | 49.11             | 15.37         | 37.46             | 49.74             | 54       | -4.26  | AV               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17385     | 56.20            | 49.21             | 15.34         | 40.51             | 62.84             | 74       | -11.16 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17385     | 44.58            | 49.21             | 15.34         | 40.51             | 51.22             | 54       | -2.78  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11590     | 59.32            | 49.11             | 15.37         | 31.31             | 56.89             | 74       | -17.11 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11590     | 46.08            | 49.11             | 15.37         | 31.31             | 43.65             | 54       | -10.35 | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17385     | 56.92            | 49.21             | 15.34         | 40.51             | 63.56             | 74       | -10.44 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17385     | 44.34            | 49.21             | 15.34         | 40.51             | 50.98             | 54       | -3.02  | AV               |
| <b>Remark:</b><br>1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit<br>2. If peak below the average limit, the average emission was no test.<br>3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value<br>has no need to be reported. |           |                  |                   |               |                   |                   |          |        |                  |



802.11n HT40

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5755 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11510     | 58.07            | 49.07             | 15.33         | 37.41             | 61.74             | 74       | -12.26 | PK               |
| V                        | 11510     | 46.45            | 49.07             | 15.33         | 37.41             | 50.12             | 54       | -3.88  | AV               |
| V                        | 17265     | 57.62            | 49.17             | 15.28         | 40.46             | 64.19             | 74       | -9.81  | PK               |
| V                        | 17265     | 44.50            | 49.17             | 15.28         | 40.46             | 51.07             | 54       | -2.93  | AV               |
| H                        | 11510     | 57.73            | 49.07             | 15.33         | 37.41             | 61.40             | 74       | -12.60 | PK               |
| H                        | 11510     | 46.72            | 49.07             | 15.33         | 37.41             | 50.39             | 54       | -3.61  | AV               |
| H                        | 17265     | 55.81            | 49.17             | 15.28         | 40.46             | 62.38             | 74       | -11.62 | PK               |
| H                        | 17265     | 44.40            | 49.17             | 15.28         | 40.46             | 50.97             | 54       | -3.03  | AV               |
| operation frequency:5795 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 11590     | 59.07            | 49.11             | 15.37         | 37.46             | 62.79             | 74       | -11.21 | PK               |
| V                        | 11590     | 45.84            | 49.11             | 15.37         | 37.46             | 49.56             | 54       | -4.44  | AV               |
| V                        | 17385     | 55.99            | 49.21             | 15.34         | 40.51             | 62.63             | 74       | -11.37 | PK               |
| V                        | 17385     | 44.40            | 49.21             | 15.34         | 40.51             | 51.04             | 54       | -2.96  | AV               |
| H                        | 11590     | 59.09            | 49.11             | 15.37         | 31.31             | 56.66             | 74       | -17.34 | PK               |
| H                        | 11590     | 45.90            | 49.11             | 15.37         | 31.31             | 43.47             | 54       | -10.53 | AV               |
| H                        | 17385     | 56.70            | 49.21             | 15.34         | 40.51             | 63.34             | 74       | -10.66 | PK               |
| H                        | 17385     | 44.17            | 49.21             | 15.34         | 40.51             | 50.81             | 54       | -3.19  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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| Polar<br>(H/V)                                                                                                                                                                                                                                                                                                                                            | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                                                                                                                                                                                                                                                                                                                                                           | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:5210                                                                                                                                                                                                                                                                                                                                  |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                                                                                                                                                                                                                                         | 10420     | 58.52            | 49.09             | 15.34         | 37.42             | 62.19             | 74       | -11.81 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 10420     | 46.81            | 49.09             | 15.34         | 37.42             | 50.48             | 54       | -3.52  | AV               |
| V                                                                                                                                                                                                                                                                                                                                                         | 15630     | 58.08            | 49.18             | 15.29         | 40.47             | 64.66             | 74       | -9.34  | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 15630     | 44.84            | 49.18             | 15.29         | 40.47             | 51.42             | 54       | -2.58  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 10420     | 58.18            | 49.09             | 15.34         | 37.42             | 61.85             | 74       | -12.15 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 10420     | 47.09            | 49.09             | 15.34         | 37.42             | 50.76             | 54       | -3.24  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 15630     | 56.25            | 49.18             | 15.29         | 40.47             | 62.83             | 74       | -11.17 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 15630     | 44.76            | 49.18             | 15.29         | 40.47             | 51.34             | 54       | -2.66  | AV               |
| operation frequency:5775                                                                                                                                                                                                                                                                                                                                  |           |                  |                   |               |                   |                   |          |        |                  |
| V                                                                                                                                                                                                                                                                                                                                                         | 11550     | 59.53            | 49.11             | 15.37         | 37.46             | 63.25             | 74       | -10.75 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 11550     | 46.20            | 49.11             | 15.37         | 37.46             | 49.92             | 54       | -4.08  | AV               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17325     | 56.42            | 49.21             | 15.34         | 40.51             | 63.06             | 74       | -10.94 | PK               |
| V                                                                                                                                                                                                                                                                                                                                                         | 17325     | 44.75            | 49.21             | 15.34         | 40.51             | 51.39             | 54       | -2.61  | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11550     | 59.55            | 49.11             | 15.37         | 31.31             | 57.12             | 74       | -16.88 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 11550     | 46.26            | 49.11             | 15.37         | 31.31             | 43.83             | 54       | -10.17 | AV               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17325     | 57.14            | 49.21             | 15.34         | 40.51             | 63.78             | 74       | -10.22 | PK               |
| H                                                                                                                                                                                                                                                                                                                                                         | 17325     | 44.53            | 49.21             | 15.34         | 40.51             | 51.17             | 54       | -2.83  | AV               |
| <b>Remark:</b><br>1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit<br>2. If peak below the average limit, the average emission was no test.<br>3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value<br>has no need to be reported. |           |                  |                   |               |                   |                   |          |        |                  |



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| Polar<br>(H/V)                                                                                                                                                                                                                                                                                                                                         | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Pre-<br>amplifier<br>(dB) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------------------------|--------------------|----------------|------------------|
| operation frequency:5210                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 10420              | 59.05                      | 49.09                     | 15.34                 | 37.42                       | 62.72                         | 74                 | -11.28         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 10420              | 47.23                      | 49.09                     | 15.34                 | 37.42                       | 50.90                         | 54                 | -3.10          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15630              | 58.60                      | 49.18                     | 15.29                 | 40.47                       | 65.18                         | 74                 | -8.82          | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 15630              | 45.24                      | 49.18                     | 15.29                 | 40.47                       | 51.82                         | 54                 | -2.18          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10420              | 58.71                      | 49.09                     | 15.34                 | 37.42                       | 62.38                         | 74                 | -11.62         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 10420              | 47.52                      | 49.09                     | 15.34                 | 37.42                       | 51.19                         | 54                 | -2.81          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15630              | 56.76                      | 49.18                     | 15.29                 | 40.47                       | 63.34                         | 74                 | -10.66         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 15630              | 45.16                      | 49.18                     | 15.29                 | 40.47                       | 51.74                         | 54                 | -2.26          | AV               |
| operation frequency:5775                                                                                                                                                                                                                                                                                                                               |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                                                                                                                                                                                                                                                                                                                                                      | 11550              | 60.07                      | 49.11                     | 15.37                 | 37.46                       | 63.79                         | 74                 | -10.21         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 11550              | 46.62                      | 49.11                     | 15.37                 | 37.46                       | 50.34                         | 54                 | -3.66          | AV               |
| V                                                                                                                                                                                                                                                                                                                                                      | 17325              | 56.93                      | 49.21                     | 15.34                 | 40.51                       | 63.57                         | 74                 | -10.43         | PK               |
| V                                                                                                                                                                                                                                                                                                                                                      | 17325              | 45.15                      | 49.21                     | 15.34                 | 40.51                       | 51.79                         | 54                 | -2.21          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 11550              | 60.09                      | 49.11                     | 15.37                 | 31.31                       | 57.66                         | 74                 | -16.34         | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 11550              | 46.68                      | 49.11                     | 15.37                 | 31.31                       | 44.25                         | 54                 | -9.75          | AV               |
| H                                                                                                                                                                                                                                                                                                                                                      | 17325              | 57.66                      | 49.21                     | 15.34                 | 40.51                       | 64.30                         | 74                 | -9.70          | PK               |
| H                                                                                                                                                                                                                                                                                                                                                      | 17325              | 44.93                      | 49.21                     | 15.34                 | 40.51                       | 51.57                         | 54                 | -2.43          | AV               |
| <b>Remark:</b><br>1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,<br>Margin= Emission Level - Limit<br>2. If peak below the average limit, the average emission was no test.<br>3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. |                    |                            |                           |                       |                             |                               |                    |                |                  |

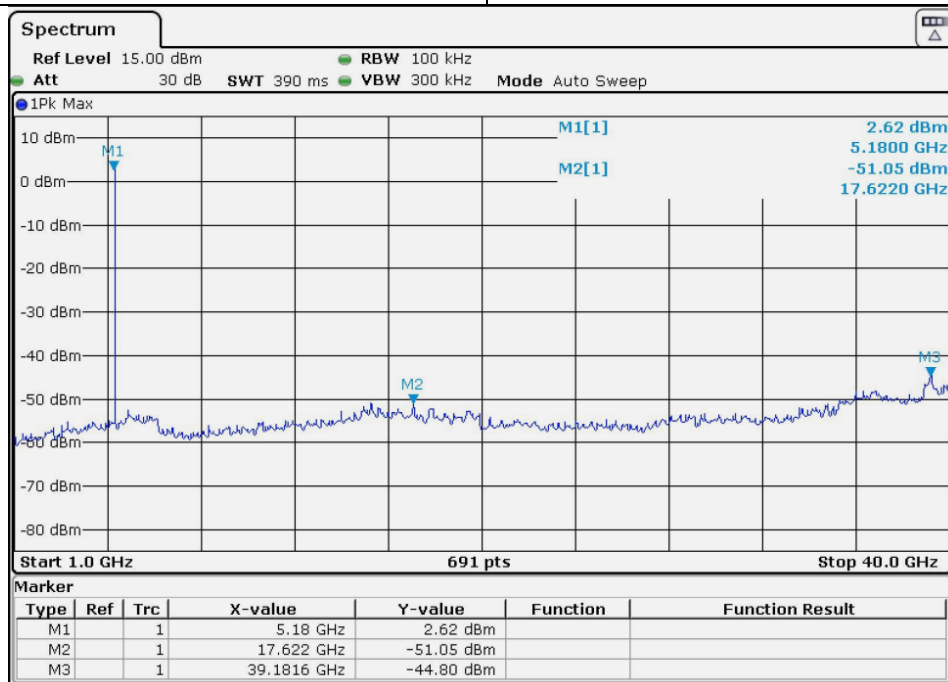


For Conducted

During the test, pre-scan the all modulation and all antenna , the 802.11a, antenna 1 were found to have the worst test results, as reflected in the report.

Test channel:

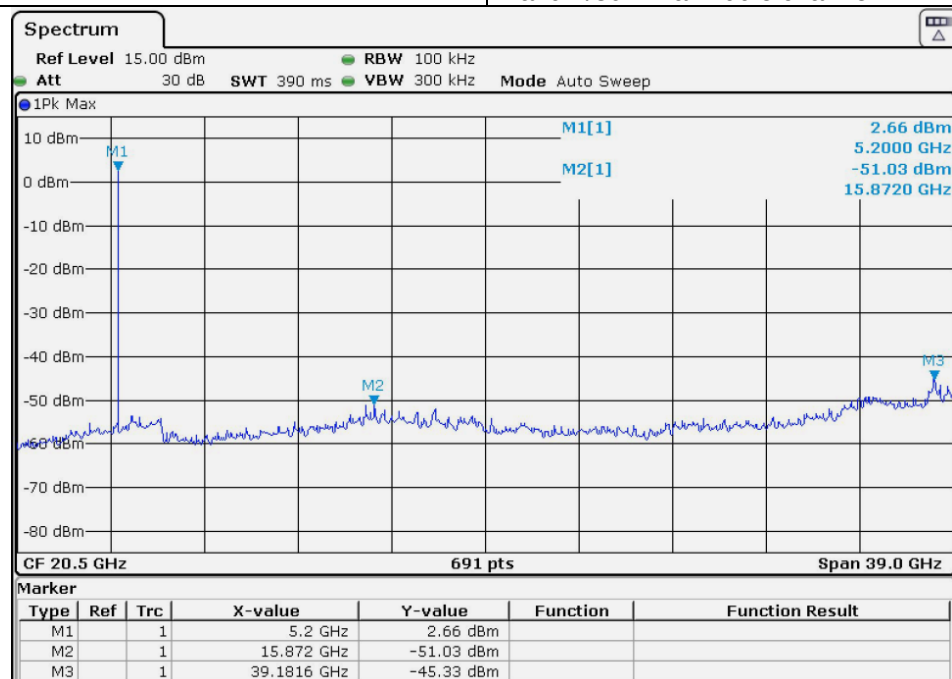
Band 1/802.11a Lowest channel



0.03Hz~40GHz

Test channel:

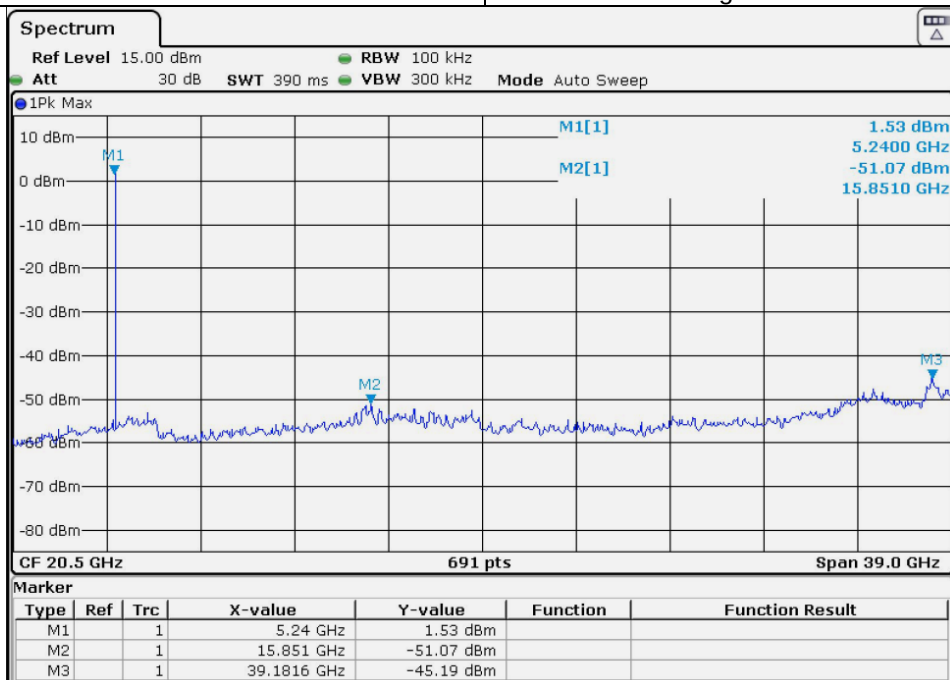
Band 1/802.11a Middle channel



0.03GHz~40GHz



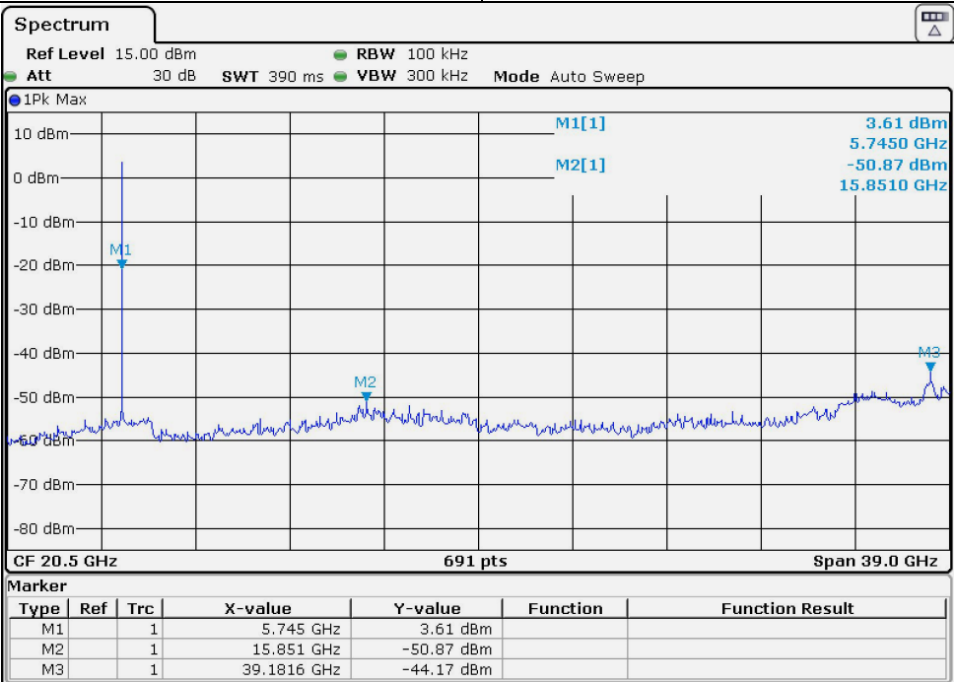
Test channel: Band 1/802.11a Highest channel



0.03GHz~40GHz

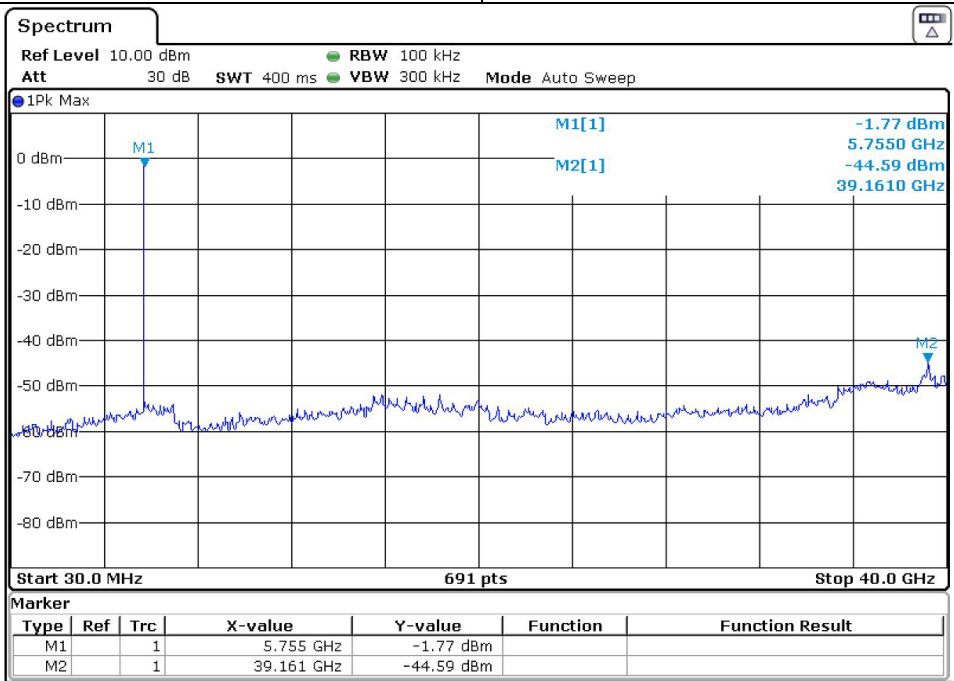


Test channel: Band 4/802.11a Lowest channel



0.03Hz~40GHz

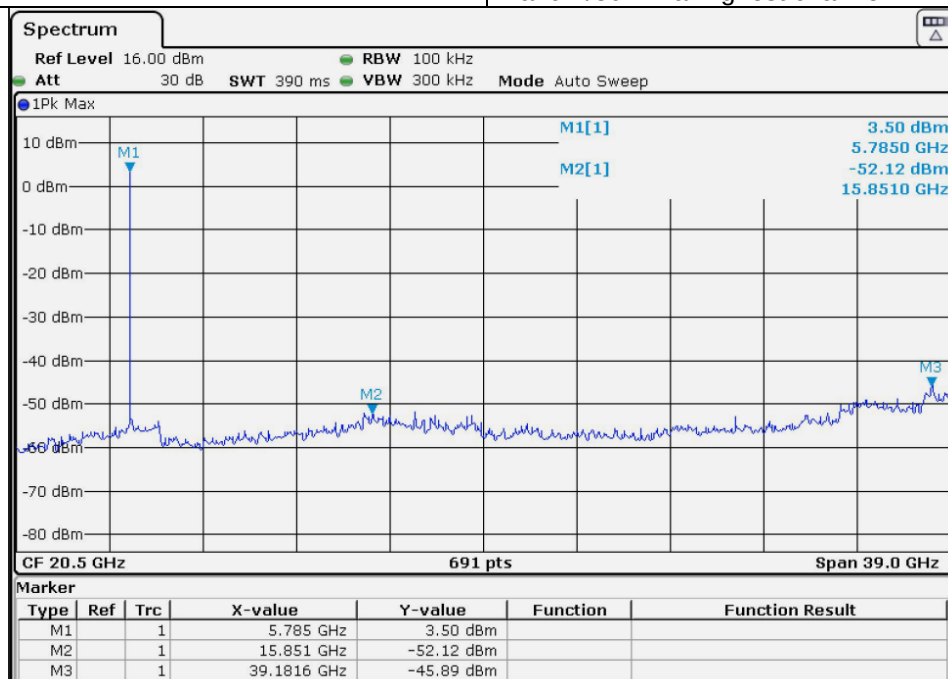
Test channel: Band 4/802.11a Middle channel



0.03GHz~40GHz



Test channel: Band 4/802.11a Highest channel



0.03GHz~40GHz



### 3.3 CONDUCTED BAND EMISSION MEASUREMENT

#### 3.3.1 TEST REQUIREMENT:

FCC Part15 C Section 15.209 and 15.407

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

| Spectrum Parameter                    | Setting                                          |         |
|---------------------------------------|--------------------------------------------------|---------|
| Attenuation                           | Auto                                             |         |
| Start Frequency                       | 5150MHz                                          | 5725MHz |
| Stop Frequency                        | 5250MHz                                          | 5850MHz |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |         |

#### 3.3.2 TEST PROCEDURE

Test method: FCC KDB 789033 G)& Parts 15.407(b)(4) & 15.209(a)

#### 3.3.3 DEVIATION FROM TEST STANDARD

No deviation

#### 3.3.4 TEST SETUP



#### 3.3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 3.3.6 TEST RESULT

For Conducted

Please see annex 2

The test result of ANT1 & ANT 2 are all attenuated 3dB below the limit. So the MIMO mode is passed.



#### 4. PEAK OUTPUT POWER

##### 4.1 APPLIED PROCEDURES / LIMIT

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

##### 4.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.  
(ii) Set RBW = 1 MHz.  
(iii) Set VBW  $\geq$  3 MHz.  
(iv) Number of points in sweep  $\geq 2 \times \text{span} / \text{RBW}$ . (This ensures that bin-to-bin spacing is  $\leq \text{RBW}/2$ , so that narrowband signals are not lost between frequency bins.)  
(v) Sweep time = auto.  
(vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.  
(vii) If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq$  98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."  
(viii) Trace average at least 100 traces in power averaging (rms) mode.  
(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

##### 4.1.2 DEVIATION FROM STANDARD

No deviation.

##### 4.1.3 TEST SETUP



##### 4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



#### **4.1.5 TEST RESULTS**

Please see annex 2



## 5. POWER SPECTRAL DENSITY TEST

### 5.1 APPLIED PROCEDURES / LIMIT

|                                                                                                  |
|--------------------------------------------------------------------------------------------------|
| In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. |
| In addition, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band.     |

| Spectrum Parameters | Setting                                                    |
|---------------------|------------------------------------------------------------|
| Attenuation         | Auto                                                       |
| Span Frequency      | = the frequency band of operation                          |
| RB                  | RBW $\geq$ 1MHz for band 1<br>RBW $\geq$ 510KHz for band 4 |
| VB                  | VBW $\geq$ 3RBW                                            |
| Detector            | AVG                                                        |
| Trace               | Max Hold                                                   |
| Sweep Time          | Auto                                                       |

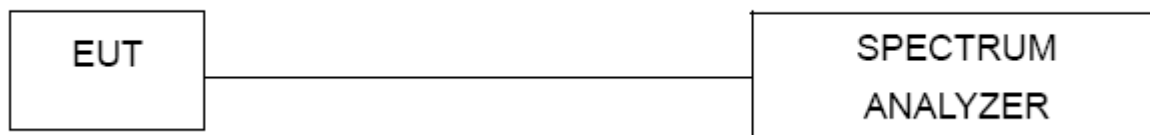
#### 5.1.1 TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. For U-NII1, U-NII-2A, U-NII-2C Band:  
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)  
For U-NII-3 Band:  
Set RBW=510 kHz, VBW=3\*RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).  
we test all antennas, the antenna 1 was worst mode and the data recording in the report.
7. Duty factor Reference is made to the test results in Section 7.1.5.

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



#### **5.1.5 TEST RESULTS**

Please see annex 2



## 6. 6DB&26DB&99% BANDWIDTH TEST

### 6.1 APPLIED PROCEDURES / LIMIT

The 26 dB bandwidth is used to determine the conducted power limits.

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

#### 6.1.1 TEST PROCEDURE

| 6dB Bandwidth       |                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------|
| Spectrum Parameters | Setting                                                                                    |
| RBW                 | 100KHz                                                                                     |
| VBW                 | 300KHz                                                                                     |
| Span                | 30MHz(20MHz Bandwidth mode)<br>60MHz(40MHz Bandwidth mode)<br>120MHz(80MHz Bandwidth mode) |
| Sweep Time          | Auto                                                                                       |
| Detector            | Peak                                                                                       |
| Trace Mode          | Max Hold                                                                                   |

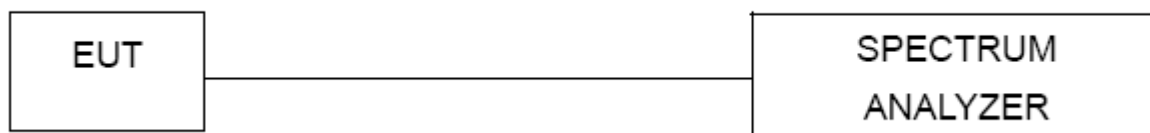
| 26dB Bandwidth      |                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------|
| Spectrum Parameters | Setting                                                                                    |
| RBW                 | approximately 1% of the emission bandwidth                                                 |
| VBW                 | >RBW                                                                                       |
| Span                | 30MHz(20MHz Bandwidth mode)<br>60MHz(40MHz Bandwidth mode)<br>120MHz(80MHz Bandwidth mode) |
| Sweep Time          | Auto                                                                                       |
| Detector            | Peak                                                                                       |
| Trace Mode          | Max Hold                                                                                   |

| 99% Occupied Bandwidth |                                         |
|------------------------|-----------------------------------------|
| Spectrum Parameters    | Setting                                 |
| RBW                    | 1% to 5% of the OBW                     |
| VBW                    | Approximately three times the RBW       |
| Span                   | between 1.5 times and 5.0 times the OBW |
| Sweep Time             | Auto                                    |
| Detector               | Peak                                    |
| Trace Mode             | Max Hold                                |

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP





#### **6.1.4 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

#### **6.1.5 TEST RESULTS**

Please see annex 2



## 7. DUTY CYCLE TEST SIGNAL

### 7.1 APPLIED PROCEDURES / LIMIT

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

#### 7.1.1 TEST PROCEDURE

1. Set RBW = 1 MHz.
2. Set the video bandwidth (VBW)  $\geq$  RBW.
3. Detector = Peak.
4. Sweep = auto couple.
5. Allow the trace to stabilize.
6. Span=0

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 7.1.5 TEST RESULTS

Please see annex 2



## 8. FREQUENCY STABILITY

### 8.1 APPLIED PROCEDURES / LIMIT

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

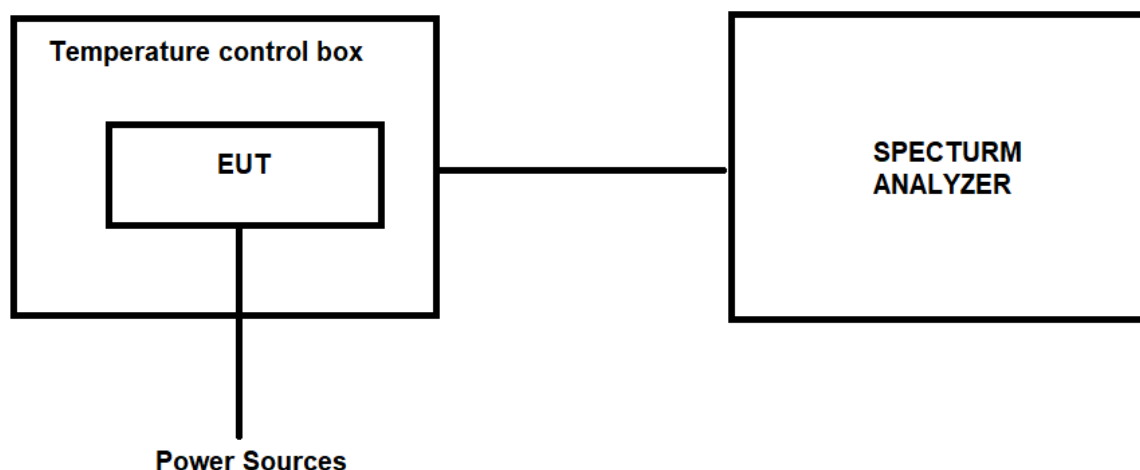
#### 8.1.1 TEST PROCEDURE

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

**8.1.5 TEST RESULTS**

ANT1

| Test Voltage | Test Temp. | Measured Frequency (MHz) | Spectrum Frequency (MHz) |              | Δ Frequency (MHz) |              |
|--------------|------------|--------------------------|--------------------------|--------------|-------------------|--------------|
|              |            |                          | 802.11a                  | 802.11n HT20 | 802.11a           | 802.11n HT20 |
| 132V         | -20℃       | 5180.0000                | 5180.0276                | 5180.0156    | -0.0276           | -0.0156      |
|              |            | 5220.0000                | 5220.0317                | 5220.0232    | -0.0317           | -0.0232      |
|              |            | 5240.0000                | 5240.0267                | 5240.0132    | -0.0267           | -0.0132      |
|              |            | 5745.0000                | 5745.0287                | 5745.0154    | -0.0287           | -0.0154      |
|              |            | 5785.0000                | 5785.0276                | 5785.0342    | -0.0276           | -0.0342      |
|              |            | 5825.0000                | 5825.0256                | 5825.0235    | -0.0256           | -0.0235      |
| 108V         | -20℃       | 5180.0000                | 5180.0346                | 5180.0176    | -0.0346           | -0.0176      |
|              |            | 5220.0000                | 5220.0276                | 5220.0765    | -0.0276           | -0.0765      |
|              |            | 5240.0000                | 5240.0211                | 5240.0432    | -0.0211           | -0.0432      |
|              |            | 5745.0000                | 5745.0278                | 5745.0453    | -0.0278           | -0.0453      |
|              |            | 5785.0000                | 5785.0294                | 5785.0542    | -0.0294           | -0.0542      |
|              |            | 5825.0000                | 5825.0189                | 5825.0325    | -0.0189           | -0.0325      |
| 120V         | 25℃        | 5180.0000                | 5180.0277                | 5180.0342    | -0.0277           | -0.0342      |
|              |            | 5220.0000                | 5220.0326                | 5220.0432    | -0.0326           | -0.0432      |
|              |            | 5240.0000                | 5240.0278                | 5240.0321    | -0.0278           | -0.0321      |
|              |            | 5745.0000                | 5745.0297                | 5745.0267    | -0.0297           | -0.0267      |
|              |            | 5785.0000                | 5785.0278                | 5785.0287    | -0.0278           | -0.0287      |
|              |            | 5825.0000                | 5825.0277                | 5825.0342    | -0.0277           | -0.0342      |
| 132V         | 50℃        | 5180.0000                | 5180.0298                | 5180.0267    | -0.0298           | -0.0267      |
|              |            | 5220.0000                | 5220.0278                | 5220.0154    | -0.0278           | -0.0154      |
|              |            | 5240.0000                | 5240.0297                | 5240.0178    | -0.0297           | -0.0178      |
|              |            | 5745.0000                | 5745.0187                | 5745.0256    | -0.0187           | -0.0256      |
|              |            | 5785.0000                | 5785.0267                | 5785.0342    | -0.0267           | -0.0342      |
|              |            | 5825.0000                | 5825.0563                | 5825.0367    | -0.0563           | -0.0367      |
| 108V         | 50℃        | 5180.0000                | 5180.0278                | 5180.0321    | -0.0278           | -0.0321      |
|              |            | 5220.0000                | 5220.0297                | 5220.0187    | -0.0297           | -0.0187      |
|              |            | 5240.0000                | 5240.0178                | 5240.0167    | -0.0178           | -0.0167      |
|              |            | 5745.0000                | 5745.0265                | 5745.0267    | -0.0265           | -0.0267      |
|              |            | 5785.0000                | 5785.0387                | 5785.0365    | -0.0387           | -0.0365      |
|              |            | 5825.0000                | 5825.0367                | 5825.0278    | -0.0367           | -0.0278      |



| Test Voltage | Test Temp. | Measured Frequency (MHz) | Spectrum Frequency (MHz) |             | Δ Frequency (MHz) |             |
|--------------|------------|--------------------------|--------------------------|-------------|-------------------|-------------|
|              |            |                          | 802.11ac 20              | 802.11ax 20 | 802.11ac 20       | 802.11ax 20 |
| 132V         | -20℃       | 5180.0000                | 5180.0245                | 5180.0123   | -0.0245           | -0.0123     |
|              |            | 5220.0000                | 5220.0202                | 5220.0227   | -0.0202           | -0.0227     |
|              |            | 5240.0000                | 5240.0053                | 5240.0187   | -0.0053           | -0.0187     |
|              |            | 5745.0000                | 5745.0184                | 5745.0227   | -0.0184           | -0.0227     |
|              |            | 5785.0000                | 5785.0162                | 5785.0287   | -0.0162           | -0.0287     |
|              |            | 5825.0000                | 5825.0163                | 5825.0168   | -0.0163           | -0.0168     |
| 108V         | -20℃       | 5180.0000                | 5180.0134                | 5180.0093   | -0.0134           | -0.0093     |
|              |            | 5220.0000                | 5220.0242                | 5220.0185   | -0.0242           | -0.0185     |
|              |            | 5240.0000                | 5240.0253                | 5240.0268   | -0.0253           | -0.0268     |
|              |            | 5745.0000                | 5745.0324                | 5745.0274   | -0.0324           | -0.0274     |
|              |            | 5785.0000                | 5785.0323                | 5785.0388   | -0.0323           | -0.0388     |
|              |            | 5825.0000                | 5825.0426                | 5825.0506   | -0.0426           | -0.0506     |
| 120V         | 25℃        | 5180.0000                | 5180.0444                | 5180.0418   | -0.0444           | -0.0418     |
|              |            | 5220.0000                | 5220.0123                | 5220.0094   | -0.0123           | -0.0094     |
|              |            | 5240.0000                | 5240.0122                | 5240.0197   | -0.0122           | -0.0197     |
|              |            | 5745.0000                | 5745.0165                | 5745.0194   | -0.0165           | -0.0194     |
|              |            | 5785.0000                | 5785.0243                | 5785.0308   | -0.0243           | -0.0308     |
|              |            | 5825.0000                | 5825.0076                | 5825.0126   | -0.0076           | -0.0126     |
| 132V         | 50℃        | 5180.0000                | 5180.0243                | 5180.0183   | -0.0243           | -0.0183     |
|              |            | 5220.0000                | 5220.0174                | 5220.0068   | -0.0174           | -0.0068     |
|              |            | 5240.0000                | 5240.0342                | 5240.0363   | -0.0342           | -0.0363     |
|              |            | 5745.0000                | 5745.0286                | 5745.0625   | -0.0286           | -0.0625     |
|              |            | 5785.0000                | 5785.0446                | 5785.0463   | -0.0446           | -0.0463     |
|              |            | 5825.0000                | 5825.0654                | 5825.0688   | -0.0654           | -0.0688     |
| 108V         | 50℃        | 5180.0000                | 5180.0345                | 5180.0363   | -0.0345           | -0.0363     |
|              |            | 5220.0000                | 5220.0296                | 5220.0322   | -0.0296           | -0.0322     |
|              |            | 5240.0000                | 5240.0345                | 5240.0234   | -0.0345           | -0.0234     |
|              |            | 5745.0000                | 5745.0436                | 5745.0454   | -0.0436           | -0.0454     |
|              |            | 5785.0000                | 5785.0275                | 5785.0257   | -0.0275           | -0.0257     |
|              |            | 5825.0000                | 5825.0745                | 5825.0787   | -0.0745           | -0.0787     |



| Test Voltage | Test Temp. | Measured Frequency (MHz) | Spectrum Frequency (MHz) |             |              | Δ Frequency (MHz) |              |              |
|--------------|------------|--------------------------|--------------------------|-------------|--------------|-------------------|--------------|--------------|
|              |            |                          | 802.11ac 40              | 802.11ax 40 | 802.11n HT40 | 802.11ac 40       | 802.11 ax 40 | 802.11n HT40 |
| 132V         | -20℃       | 5190.000                 | 5190.0198                | 5190.0214   | 5190.0356    | -0.0198           | -0.0214      | -0.0356      |
|              |            | 5230.000                 | 5230.0339                | 5230.0276   | 5230.0467    | -0.0339           | -0.0276      | -0.0467      |
|              |            | 5755.000                 | 5755.0568                | 5755.0367   | 5755.0542    | -0.0568           | -0.0367      | -0.0542      |
|              |            | 5795.000                 | 5795.0600                | 5795.0354   | 5795.0578    | -0.0600           | -0.0354      | -0.0578      |
| 108V         |            | 5190.000                 | 5190.0247                | 5190.0276   | 5190.0387    | -0.0247           | -0.0276      | -0.0387      |
|              |            | 5230.000                 | 5230.0312                | 5230.0367   | 5230.0289    | -0.0312           | -0.0367      | -0.0289      |
|              |            | 5755.000                 | 5755.0229                | 5755.0287   | 5755.0543    | -0.0229           | -0.0287      | -0.0543      |
|              |            | 5795.000                 | 5795.0422                | 5795.0456   | 5795.0345    | -0.0422           | -0.0456      | -0.0345      |
| 120V         | 25℃        | 5190.000                 | 5190.0231                | 5190.045    | 5190.0467    | -0.0231           | -0.0450      | -0.0467      |
|              |            | 5230.000                 | 5230.0650                | 5230.0672   | 5230.0533    | -0.0650           | -0.0672      | -0.0533      |
|              |            | 5755.000                 | 5755.0200                | 5755.0367   | 5755.0514    | -0.0200           | -0.0367      | -0.0514      |
|              |            | 5795.000                 | 5795.0546                | 5795.0486   | 5795.0612    | -0.0546           | -0.0486      | -0.0612      |
| 132V         | 50℃        | 5190.000                 | 5190.0631                | 5190.0513   | 5190.0654    | -0.0631           | -0.0513      | -0.0654      |
|              |            | 5230.000                 | 5230.0543                | 5230.0557   | 5230.0511    | -0.0543           | -0.0557      | -0.0511      |
|              |            | 5755.000                 | 5755.0446                | 5755.0485   | 5755.0475    | -0.0446           | -0.0485      | -0.0475      |
|              |            | 5795.000                 | 5795.0300                | 5795.0478   | 5795.0278    | -0.0300           | -0.0478      | -0.0278      |
| 108V         | 50℃        | 5190.000                 | 5190.0533                | 5190.0558   | 5190.0378    | -0.0533           | -0.0558      | -0.0378      |
|              |            | 5230.000                 | 5230.0342                | 5230.0397   | 5230.0411    | -0.0342           | -0.0397      | -0.0411      |
|              |            | 5755.000                 | 5755.0297                | 5755.0423   | 5755.0376    | -0.0297           | -0.0423      | -0.0376      |
|              |            | 5795.000                 | 5795.0449                | 5795.0478   | 5795.0412    | -0.0449           | -0.0478      | -0.0412      |



| Test Voltage | Test Temp. | Measured Frequency (MHz) | Spectrum Frequency (MHz) |             | Δ Frequency (MHz) |             |
|--------------|------------|--------------------------|--------------------------|-------------|-------------------|-------------|
|              |            |                          | 802.11ac 80              | 802.11ax 80 | 802.11ac 80       | 802.11ax 80 |
| 132V         | -20℃       | 5210.0000                | 5210.0265                | 5210.0476   | -0.0265           | -0.0476     |
|              |            | 5775.0000                | 5775.0387                | 5775.0569   | -0.0387           | -0.0569     |
| 108V         |            | 5210.0000                | 5210.0378                | 5210.0653   | -0.0378           | -0.0653     |
|              |            | 5775.0000                | 5775.0587                | 5775.0735   | -0.0587           | -0.0735     |
| 120V         | 25℃        | 5210.0000                | 5210.0657                | 5210.0646   | -0.0657           | -0.0646     |
|              |            | 5775.0000                | 5775.0589                | 5775.0632   | -0.0589           | -0.0632     |
| 132V         | 50℃        | 5210.0000                | 5210.0685                | 5210.0598   | -0.0685           | -0.0598     |
|              |            | 5775.0000                | 5775.0656                | 5775.0612   | -0.0656           | -0.0612     |
| 108V         | 50℃        | 5210.0000                | 5210.0459                | 5210.0589   | -0.0459           | -0.0589     |
|              |            | 5775.0000                | 5775.0723                | 5775.0767   | -0.0723           | -0.0767     |



## ANT2

| Test Voltage | Test Temp. | Measured Frequency (MHz) | Spectrum Frequency (MHz) |              | Δ Frequency (MHz) |              |
|--------------|------------|--------------------------|--------------------------|--------------|-------------------|--------------|
|              |            |                          | 802.11a                  | 802.11n HT20 | 802.11a           | 802.11n HT20 |
| 132V         | -20℃       | 5180.0000                | 5180.0286                | 5180.0166    | -0.0286           | -0.0166      |
|              |            | 5220.0000                | 5220.0327                | 5220.0242    | -0.0327           | -0.0242      |
|              |            | 5240.0000                | 5240.0277                | 5240.0142    | -0.0277           | -0.0142      |
|              |            | 5745.0000                | 5745.0298                | 5745.0165    | -0.0298           | -0.0165      |
|              |            | 5785.0000                | 5785.0288                | 5785.0354    | -0.0288           | -0.0354      |
|              |            | 5825.0000                | 5825.0268                | 5825.0247    | -0.0268           | -0.0247      |
| 108V         |            | 5180.0000                | 5180.0356                | 5180.0186    | -0.0356           | -0.0186      |
|              |            | 5220.0000                | 5220.0286                | 5220.0775    | -0.0286           | -0.0775      |
|              |            | 5240.0000                | 5240.0221                | 5240.0442    | -0.0221           | -0.0442      |
|              |            | 5745.0000                | 5745.0289                | 5745.0464    | -0.0289           | -0.0464      |
|              |            | 5785.0000                | 5785.0306                | 5785.0554    | -0.0306           | -0.0554      |
|              |            | 5825.0000                | 5825.0201                | 5825.0337    | -0.0201           | -0.0337      |
| 120V         | 25℃        | 5180.0000                | 5180.0287                | 5180.0352    | -0.0287           | -0.0352      |
|              |            | 5220.0000                | 5220.0336                | 5220.0442    | -0.0336           | -0.0442      |
|              |            | 5240.0000                | 5240.0288                | 5240.0331    | -0.0288           | -0.0331      |
|              |            | 5745.0000                | 5745.0308                | 5745.0278    | -0.0308           | -0.0278      |
|              |            | 5785.0000                | 5785.0290                | 5785.0299    | -0.0290           | -0.0299      |
|              |            | 5825.0000                | 5825.0289                | 5825.0354    | -0.0289           | -0.0354      |
| 132V         | 50℃        | 5180.0000                | 5180.0308                | 5180.0277    | -0.0308           | -0.0277      |
|              |            | 5220.0000                | 5220.0288                | 5220.0164    | -0.0288           | -0.0164      |
|              |            | 5240.0000                | 5240.0307                | 5240.0188    | -0.0307           | -0.0188      |
|              |            | 5745.0000                | 5745.0198                | 5745.0267    | -0.0198           | -0.0267      |
|              |            | 5785.0000                | 5785.0279                | 5785.0354    | -0.0279           | -0.0354      |
|              |            | 5825.0000                | 5825.0575                | 5825.0379    | -0.0575           | -0.0379      |
| 108V         | 50℃        | 5180.0000                | 5180.0288                | 5180.0331    | -0.0288           | -0.0331      |
|              |            | 5220.0000                | 5220.0307                | 5220.0197    | -0.0307           | -0.0197      |
|              |            | 5240.0000                | 5240.0188                | 5240.0177    | -0.0188           | -0.0177      |
|              |            | 5745.0000                | 5745.0276                | 5745.0278    | -0.0276           | -0.0278      |
|              |            | 5785.0000                | 5785.0399                | 5785.0377    | -0.0399           | -0.0377      |
|              |            | 5825.0000                | 5825.0379                | 5825.0290    | -0.0379           | -0.0290      |



| Test Voltage | Test Temp. | Measured Frequency (MHz) | Spectrum Frequency (MHz) |             | Δ Frequency (MHz) |             |
|--------------|------------|--------------------------|--------------------------|-------------|-------------------|-------------|
|              |            |                          | 802.11ac 20              | 802.11ax 20 | 802.11ac 20       | 802.11ax 20 |
| 132V         | -20℃       | 5180.0000                | 5180.0255                | 5180.0133   | -0.0255           | -0.0133     |
|              |            | 5220.0000                | 5220.0212                | 5220.0237   | -0.0212           | -0.0237     |
|              |            | 5240.0000                | 5240.0063                | 5240.0197   | -0.0063           | -0.0197     |
|              |            | 5745.0000                | 5745.0195                | 5745.0238   | -0.0195           | -0.0238     |
|              |            | 5785.0000                | 5785.0174                | 5785.0299   | -0.0174           | -0.0299     |
|              |            | 5825.0000                | 5825.0175                | 5825.0180   | -0.0175           | -0.0180     |
| 108V         | -20℃       | 5180.0000                | 5180.0144                | 5180.0103   | -0.0144           | -0.0103     |
|              |            | 5220.0000                | 5220.0252                | 5220.0195   | -0.0252           | -0.0195     |
|              |            | 5240.0000                | 5240.0263                | 5240.0278   | -0.0263           | -0.0278     |
|              |            | 5745.0000                | 5745.0335                | 5745.0285   | -0.0335           | -0.0285     |
|              |            | 5785.0000                | 5785.0335                | 5785.0400   | -0.0335           | -0.0400     |
|              |            | 5825.0000                | 5825.0438                | 5825.0518   | -0.0438           | -0.0518     |
| 120V         | 25℃        | 5180.0000                | 5180.0454                | 5180.0428   | -0.0454           | -0.0428     |
|              |            | 5220.0000                | 5220.0133                | 5220.0104   | -0.0133           | -0.0104     |
|              |            | 5240.0000                | 5240.0132                | 5240.0207   | -0.0132           | -0.0207     |
|              |            | 5745.0000                | 5745.0176                | 5745.0205   | -0.0176           | -0.0205     |
|              |            | 5785.0000                | 5785.0255                | 5785.0320   | -0.0255           | -0.0320     |
|              |            | 5825.0000                | 5825.0088                | 5825.0138   | -0.0088           | -0.0138     |
| 132V         | 50℃        | 5180.0000                | 5180.0253                | 5180.0193   | -0.0253           | -0.0193     |
|              |            | 5220.0000                | 5220.0184                | 5220.0078   | -0.0184           | -0.0078     |
|              |            | 5240.0000                | 5240.0352                | 5240.0373   | -0.0352           | -0.0373     |
|              |            | 5745.0000                | 5745.0297                | 5745.0636   | -0.0297           | -0.0636     |
|              |            | 5785.0000                | 5785.0458                | 5785.0475   | -0.0458           | -0.0475     |
|              |            | 5825.0000                | 5825.0666                | 5825.0700   | -0.0666           | -0.0700     |
| 108V         | 50℃        | 5180.0000                | 5180.0355                | 5180.0373   | -0.0355           | -0.0373     |
|              |            | 5220.0000                | 5220.0306                | 5220.0332   | -0.0306           | -0.0332     |
|              |            | 5240.0000                | 5240.0355                | 5240.0244   | -0.0355           | -0.0244     |
|              |            | 5745.0000                | 5745.0447                | 5745.0465   | -0.0447           | -0.0465     |
|              |            | 5785.0000                | 5785.0287                | 5785.0269   | -0.0287           | -0.0269     |
|              |            | 5825.0000                | 5825.0757                | 5825.0799   | -0.0757           | -0.0799     |



| Test Voltage | Test Temp. | Measured Frequency (MHz) | Spectrum Frequency (MHz) |             |              | Δ Frequency (MHz) |              |              |
|--------------|------------|--------------------------|--------------------------|-------------|--------------|-------------------|--------------|--------------|
|              |            |                          | 802.11ac 40              | 802.11ax 40 | 802.11n HT40 | 802.11ac 40       | 802.11 ax 40 | 802.11n HT40 |
| 132V         | -20℃       | 5190.000                 | 5190.0208                | 5190.0224   | 5190.0366    | -0.0208           | -0.0224      | -0.0366      |
|              |            | 5230.000                 | 5230.0349                | 5230.0286   | 5230.0477    | -0.0349           | -0.0286      | -0.0477      |
|              |            | 5755.000                 | 5755.0580                | 5755.0379   | 5755.0554    | -0.0580           | -0.0379      | -0.0554      |
|              |            | 5795.000                 | 5795.0612                | 5795.0366   | 5795.0590    | -0.0612           | -0.0366      | -0.0590      |
| 108V         |            | 5190.000                 | 5190.0257                | 5190.0286   | 5190.0397    | -0.0257           | -0.0286      | -0.0397      |
|              |            | 5230.000                 | 5230.0322                | 5230.0377   | 5230.0299    | -0.0322           | -0.0377      | -0.0299      |
|              |            | 5755.000                 | 5755.0241                | 5755.0299   | 5755.0555    | -0.0241           | -0.0299      | -0.0555      |
|              |            | 5795.000                 | 5795.0434                | 5795.0468   | 5795.0357    | -0.0434           | -0.0468      | -0.0357      |
| 120V         | 25℃        | 5190.000                 | 5190.0241                | 5190.0460   | 5190.0477    | -0.0241           | -0.0460      | -0.0477      |
|              |            | 5230.000                 | 5230.0660                | 5230.0682   | 5230.0543    | -0.0660           | -0.0682      | -0.0543      |
|              |            | 5755.000                 | 5755.0212                | 5755.0379   | 5755.0526    | -0.0212           | -0.0379      | -0.0526      |
|              |            | 5795.000                 | 5795.0558                | 5795.0498   | 5795.0624    | -0.0558           | -0.0498      | -0.0624      |
| 132V         | 50℃        | 5190.000                 | 5190.0641                | 5190.0523   | 5190.0664    | -0.0641           | -0.0523      | -0.0664      |
|              |            | 5230.000                 | 5230.0553                | 5230.0567   | 5230.0521    | -0.0553           | -0.0567      | -0.0521      |
|              |            | 5755.000                 | 5755.0458                | 5755.0497   | 5755.0487    | -0.0458           | -0.0497      | -0.0487      |
|              |            | 5795.000                 | 5795.0312                | 5795.0490   | 5795.0290    | -0.0312           | -0.0490      | -0.0290      |
| 108V         | 50℃        | 5190.000                 | 5190.0543                | 5190.0568   | 5190.0388    | -0.0543           | -0.0568      | -0.0388      |
|              |            | 5230.000                 | 5230.0352                | 5230.0407   | 5230.0421    | -0.0352           | -0.0407      | -0.0421      |
|              |            | 5755.000                 | 5755.0309                | 5755.0435   | 5755.0388    | -0.0309           | -0.0435      | -0.0388      |
|              |            | 5795.000                 | 5795.0461                | 5795.0490   | 5795.0424    | -0.0461           | -0.0490      | -0.0424      |



| Test Voltage | Test Temp. | Measured Frequency (MHz) | Spectrum Frequency (MHz) |             | Δ Frequency (MHz) |             |
|--------------|------------|--------------------------|--------------------------|-------------|-------------------|-------------|
|              |            |                          | 802.11ac 80              | 802.11ax 80 | 802.11ac 80       | 802.11ax 80 |
| 132V         | -20℃       | 5210.0000                | 5210.0275                | 5210.0486   | -0.0275           | -0.0486     |
|              |            | 5775.0000                | 5775.0399                | 5775.0581   | -0.0399           | -0.0581     |
| 108V         |            | 5210.0000                | 5210.0388                | 5210.0663   | -0.0388           | -0.0663     |
|              |            | 5785.0000                | 5775.0599                | 5775.0747   | -0.0599           | -0.0747     |
| 120V         | 25℃        | 5210.0000                | 5210.0667                | 5210.0656   | -0.0667           | -0.0656     |
|              |            | 5775.0000                | 5775.0601                | 5775.0644   | -0.0601           | -0.0644     |
| 132V         | 50℃        | 5210.0000                | 5210.0695                | 5210.0608   | -0.0695           | -0.0608     |
|              |            | 5775.0000                | 5775.0668                | 5775.0624   | -0.0668           | -0.0624     |
| 108V         | 50℃        | 5210.0000                | 5210.0469                | 5210.0599   | -0.0469           | -0.0599     |
|              |            | 5775.0000                | 5775.0735                | 5775.0779   | -0.0735           | -0.0779     |



## **9. TRANSMISSION IN THE ABSENCE OF DATA**

### **9.1 STANDARD REQUIREMENT**

According to §15.407(c)

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

### **9.2 TEST RESULT**

No non-compliance noted:  
Refer to the theory of operation.

## **10. ANTENNA REQUIREMENT**

### **10.1 STANDARD REQUIREMENT**

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

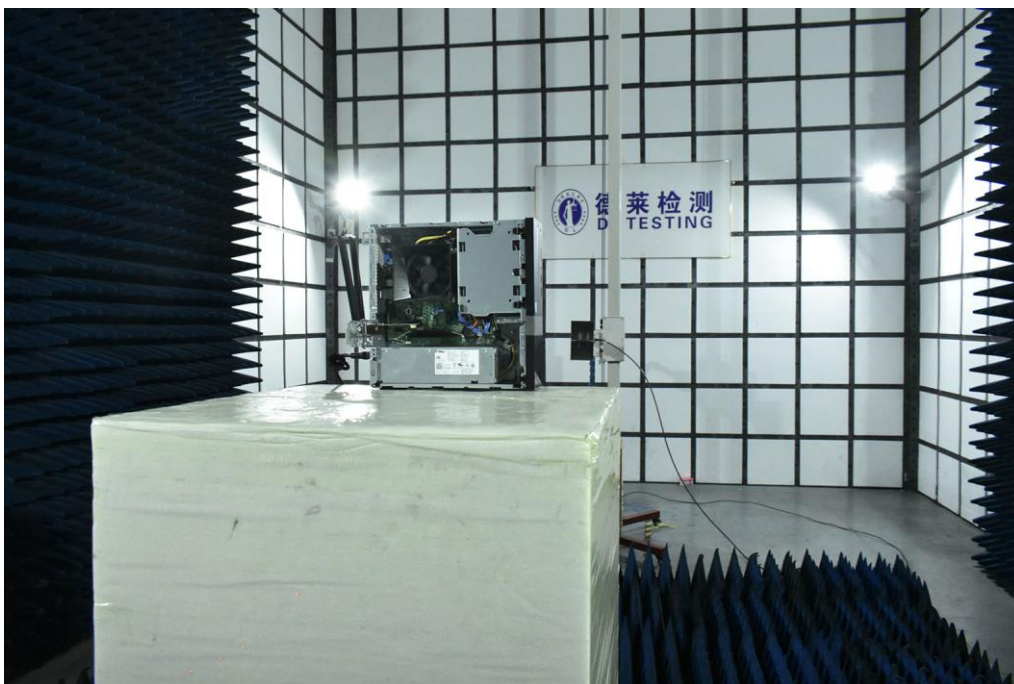
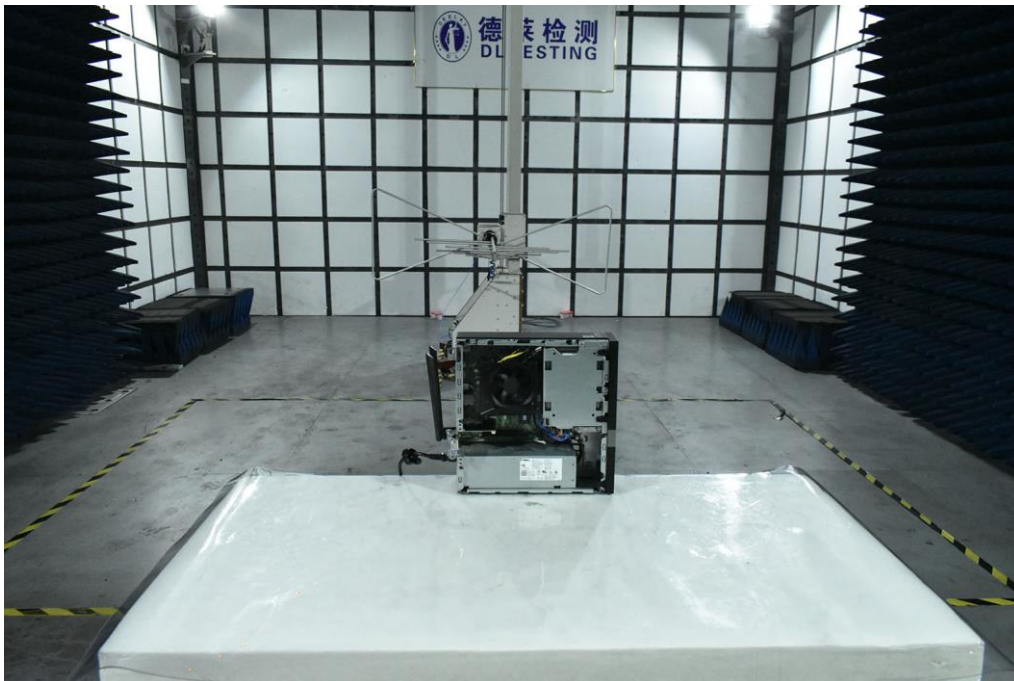
### **10.2 EUT ANTENNA**

The EUT antenna is equipped unique antenna connector and antenna gain less than 6dBi, It comply with the standard requirement.



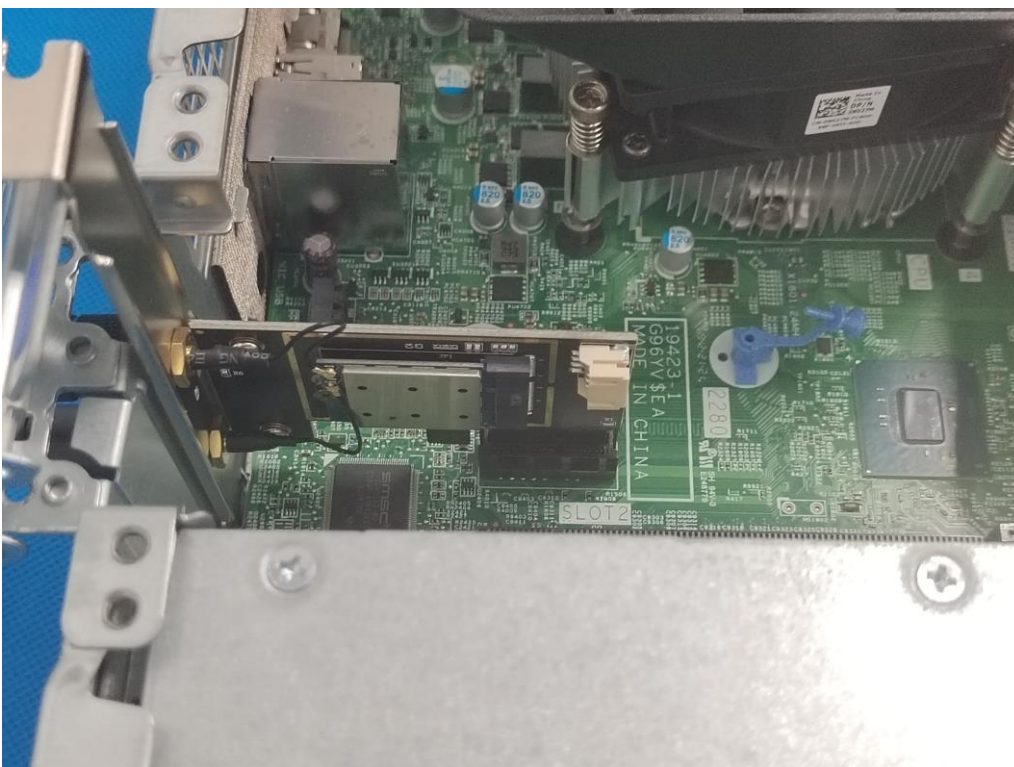
## 11. TEST SEUUP PHOTO

Radiated Measurement Photos



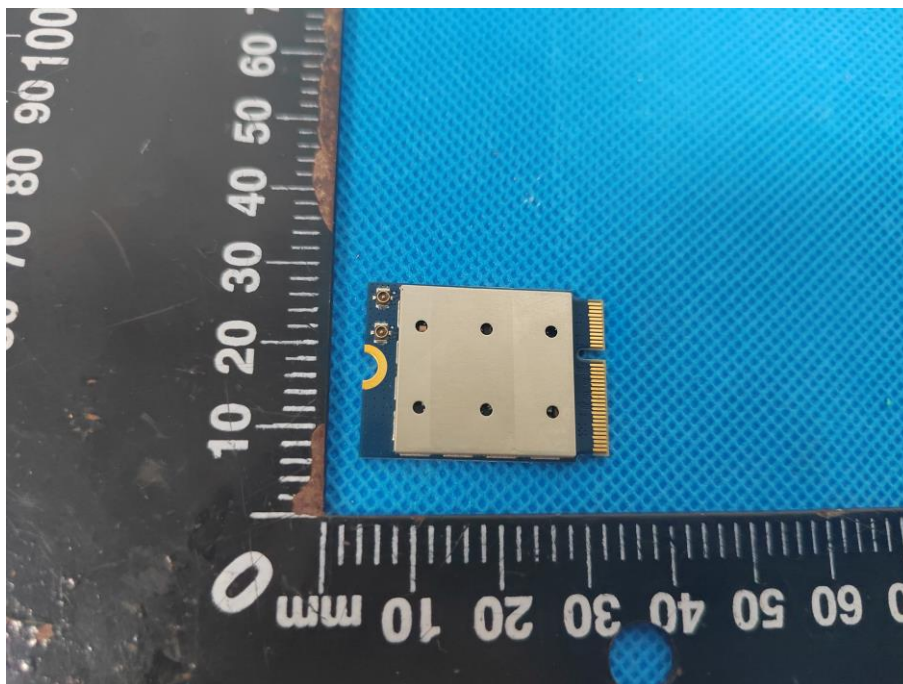


### Conducted Measurement Photos





## 12. EUT PHOTO



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