

## 3.6 AC Conducted Emission Measurement

### 3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of Emission<br>(MHz) | Conducted Limit (dB $\mu$ V) |           |
|--------------------------------|------------------------------|-----------|
|                                | Quasi-Peak                   | Average   |
| 0.15-0.5                       | 66 to 56*                    | 56 to 46* |
| 0.5-5                          | 56                           | 46        |
| 5-30                           | 60                           | 50        |

\*Decreases with the logarithm of the frequency.

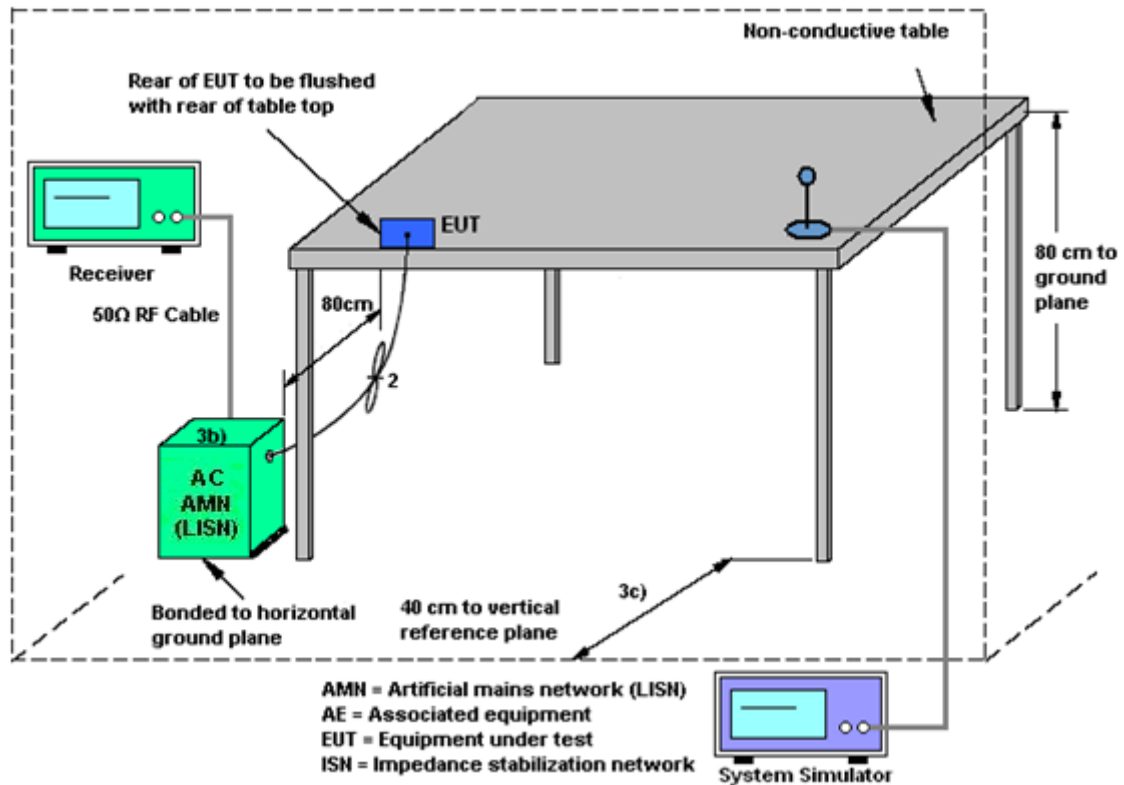
### 3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

### 3.6.4 Test Setup



### 3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

### 3.7 Antenna Requirements

#### 3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

#### 3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

#### 3.7.3 Antenna Gain

Refer to FCC KDB 662911 D01 Multiple Transmitter Output v02r01

<CDD Modes >

For power measurements on IEEE 802.11 devices,

Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows:

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ .

$G_{ANT}$  is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation follows F)2)f)ii) of KDB 662911 D01 v02r01.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

$N_{SS}$  = the number of independent spatial streams of data;

$N_{ANT}$  = the total number of antennas

$g_{j,k} = 10^{G_k/20}$  if the  $k$ th antenna is being fed by spatial stream  $j$ , or zero if it is not;

$G_k$  is the gain in dBi of the  $k$ th antenna.

As minimum  $N_{SS}=1$  is supported by EUT, the formula can be simplified as:

Directional gain =  $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$  dBi

Where  $G_1, G_2, \dots, G_N$  denote single antenna gain.

For example: If a device has two antenna,  $G_{ANT1} = 3.6$  dBi;  $G_{ANT2} = 4.2$  dBi

Directional gain of power measurement =  $\max(3.6, 4.2) + 0 = 4.2$  dBi

Directional gain of PSD measurement =  $10 \cdot \log[(10^{3.6/20} + 10^{4.2/20})^2 / 2] = 6.92$  dBi



| <CDD Modes> |        |        |       |       |           |           |
|-------------|--------|--------|-------|-------|-----------|-----------|
|             |        |        | DG    | DG    | Power     | PSD       |
|             |        |        | for   | for   | Limit     | Limit     |
|             | Ant. 4 | Ant. 3 | Power | PSD   | Reduction | Reduction |
|             | (dBi)  | (dBi)  | (dBi) | (dBi) | (dB)      | (dB)      |
| 2.4 GHz     | -2.70  | -0.20  | -0.20 | 1.65  | 0.00      | 0.00      |

Calculation example:

The DG for PSD is derived from formula is

$$10 \times \log \left\{ \left[ 10^{(-2.7\text{dBi} / 20)} + 10^{(-0.2 \text{ dBi} / 20)} \right]^2 / 2 \right\} \\ = 1.65 \text{ dBi}$$



## 4 List of Measuring Equipment

| Instrument              | Brand Name                 | Model No.                           | Serial No.                             | Characteristics            | Calibration Date | Test Date                       | Due Date      | Remark                   |
|-------------------------|----------------------------|-------------------------------------|----------------------------------------|----------------------------|------------------|---------------------------------|---------------|--------------------------|
| Loop Antenna            | Rohde & Schwarz            | HFH2-Z2                             | 100315                                 | 9 kHz~30 MHz               | Jan. 04, 2021    | Nov. 25, 2021~<br>Dec. 20, 2021 | Jan. 03, 2022 | Radiation<br>(03CH15-HY) |
| Bilog Antenna           | TESEQ                      | CBL 6111D &<br>00800N1D01N<br>-06   | 41912 & 05                             | 30MHz~1GHz                 | Feb. 08, 2021    | Nov. 25, 2021~<br>Dec. 20, 2021 | Feb. 07, 2022 | Radiation<br>(03CH15-HY) |
| Amplifier               | SONOMA                     | 310N                                | 363440                                 | 9kHz~1GHz                  | Dec. 28, 2020    | Nov. 25, 2021~<br>Dec. 20, 2021 | Dec. 27, 2021 | Radiation<br>(03CH15-HY) |
| Horn Antenna            | SCHWARZBE<br>CK            | BBHA 9120 D                         | 9120D-01620                            | 1GHz~18GHz                 | Oct. 25, 2021    | Nov. 25, 2021~<br>Dec. 20, 2021 | Oct. 24, 2022 | Radiation<br>(03CH15-HY) |
| SHF-EHF Horn<br>Antenna | SCHWARZBE<br>CK            | BBHA 9170                           | 00991                                  | 18GHz~40GHz                | May 12, 2021     | Nov. 25, 2021~<br>Dec. 20, 2021 | May 11, 2022  | Radiation<br>(03CH15-HY) |
| Preamplifier            | Jet-Power                  | JPA0118-55-30<br>3                  | 17100018000<br>55006                   | 1GHz~18GHz                 | May 06, 2021     | Nov. 25, 2021~<br>Dec. 20, 2021 | May 05, 2022  | Radiation<br>(03CH15-HY) |
| Preamplifier            | EM Electronics             | EM01G18G                            | 060802                                 | 1GHz-18GHz                 | Jul. 26, 2021    | Nov. 25, 2021~<br>Dec. 02, 2021 | Jul. 25, 2022 | Radiation<br>(03CH15-HY) |
| Preamplifier            | E-INSTRUME<br>NT TECH LTD. | ERA-10M-700<br>0-MR                 | EC1900247                              | 10MHz-7GHz                 | Dec. 03, 2021    | Dec. 03, 2021~<br>Dec. 20, 2021 | Dec. 02, 2022 | Radiation<br>(03CH15-HY) |
| Preamplifier            | EMEC                       | EM18G40G                            | 060801                                 | 18-40GHz                   | Jun. 22, 2021    | Nov. 25, 2021~<br>Dec. 20, 2021 | Jun. 21, 2022 | Radiation<br>(03CH15-HY) |
| EMI Test<br>Receiver    | Keysight                   | N9038A(MXE)                         | MY55420170                             | 20MHz~8.4GHz               | Jul. 15, 2021    | Nov. 25, 2021~<br>Dec. 20, 2021 | Jul. 14, 2022 | Radiation<br>(03CH15-HY) |
| Spectrum<br>Analyzer    | Agilent                    | E4446A                              | MY50180136                             | 3Hz~44GHz                  | May 07, 2021     | Nov. 25, 2021~<br>Dec. 20, 2021 | May 06, 2022  | Radiation<br>(03CH15-HY) |
| Antenna Mast            | ChainTek                   | MBS-520-1                           | N/A                                    | 1m~4m                      | N/A              | Nov. 25, 2021~<br>Dec. 20, 2021 | N/A           | Radiation<br>(03CH15-HY) |
| Turn Table              | ChainTek                   | T-200-S-1                           | N/A                                    | 0~360 Degree               | N/A              | Nov. 25, 2021~<br>Dec. 20, 2021 | N/A           | Radiation<br>(03CH15-HY) |
| Software                | Audix                      | E3<br>6.2009-8-24(k5<br>)           | RK-000451                              | N/A                        | N/A              | Nov. 25, 2021~<br>Dec. 20, 2021 | N/A           | Radiation<br>(03CH15-HY) |
| RF Cable                | HUBER +<br>SUHNER          | SUCOFLEX<br>104, 102E               | MY36980/4,<br>MY9838/4PE,<br>508405/2E | 30MHz~18G                  | Nov. 15, 2021    | Nov. 25, 2021~<br>Dec. 20, 2021 | Nov. 14, 2022 | Radiation<br>(03CH15-HY) |
| RF Cable                | HUBER +<br>SUHNER          | SUCOFLEX<br>102                     | 505134/2                               | 30MHz-40GHz                | Feb. 22, 2021    | Nov. 25, 2021~<br>Dec. 20, 2021 | Feb. 21, 2022 | Radiation<br>(03CH15-HY) |
| RF Cable                | HUBER +<br>SUHNER          | SUCOFLEX<br>102                     | 800740/2                               | 30MHz-40GHz                | Feb. 22, 2021    | Nov. 25, 2021~<br>Dec. 20, 2021 | Feb. 21, 2022 | Radiation<br>(03CH15-HY) |
| RF Cable                | HUBER +<br>SUHNER          | SUCOFLEX<br>104                     | MY9837/4PE                             | 9kHz~30MHz                 | Mar. 11, 2021    | Nov. 25, 2021~<br>Dec. 20, 2021 | Mar. 10, 2022 | Radiation<br>(03CH15-HY) |
| Filter                  | Wainwright                 | WLJ4-1000-15<br>30-6000-40ST        | SN4                                    | 1.53GHz Low<br>Pass Filter | Jul. 02, 2021    | Nov. 25, 2021~<br>Dec. 20, 2021 | Jul. 01, 2022 | Radiation<br>(03CH15-HY) |
| Filter                  | Wainwright                 | WHKX12-2700<br>-3000-18000-6<br>OST | SN4                                    | 3GHz High<br>Pass Filter   | Sep. 15, 2021    | Nov. 25, 2021~<br>Dec. 20, 2021 | Sep. 14, 2022 | Radiation<br>(03CH15-HY) |



| Instrument            | Brand Name      | Model No.        | Serial No.                | Characteristics | Calibration Date | Test Date                      | Due Date      | Remark               |
|-----------------------|-----------------|------------------|---------------------------|-----------------|------------------|--------------------------------|---------------|----------------------|
| Hygrometer            | TECEP           | DTM-303A         | TP201996                  | N/A             | Nov. 16, 2021    | Nov. 20, 2021<br>Dec. 23, 2021 | Nov. 15, 2022 | Conducted (TH05-HY)  |
| Power Meter           | DARE            | RPR3006W         | 13I00030SNO<br>31(NO:182) | 10MHz~6GHz      | Dec. 30, 2020    | Nov. 20, 2021<br>Dec. 23, 2021 | Dec. 29, 2021 | Conducted (TH05-HY)  |
| Signal Analyzer       | Rohde & Schwarz | FSV40            | 101566                    | 10Hz~40GHz      | Aug. 30, 2021    | Nov. 20, 2021<br>Dec. 23, 2021 | Aug. 29, 2022 | Conducted (TH05-HY)  |
| Switch Box & RF Cable | EM Electronics  | EMSW18SE         | SW191204(B<br>OX8)        | N/A             | Jan. 07, 2021    | Nov. 20, 2021<br>Dec. 23, 2021 | Jan. 06, 2022 | Conducted (TH05-HY)  |
| AC Power Source       | ChainTek        | APC-1000W        | N/A                       | N/A             | N/A              | Nov. 15, 2021                  | N/A           | Conduction (CO05-HY) |
| EMI Test Receiver     | Rohde & Schwarz | ESR3             | 102388                    | 9kHz~3.6GHz     | Nov. 30, 2020    | Nov. 15, 2021                  | Nov. 29, 2021 | Conduction (CO05-HY) |
| Hygrometer            | TECEP           | DTM-303A         | TP201973                  | N/A             | Oct. 22, 2021    | Nov. 15, 2021                  | Oct. 21, 2022 | Conduction (CO05-HY) |
| LISN                  | Rohde & Schwarz | ENV216           | 100080                    | 9kHz~30MHz      | Dec. 01, 2020    | Nov. 15, 2021                  | Nov. 30, 2021 | Conduction (CO05-HY) |
| Software              | Rohde & Schwarz | EMC32 V10.30     | N/A                       | N/A             | N/A              | Nov. 15, 2021                  | N/A           | Conduction (CO05-HY) |
| Pulse Limiter         | SCHWARZBECK     | VTSD 9561-F<br>N | 00691                     | N/A             | Jul. 28, 2021    | Nov. 15, 2021                  | Jul. 27, 2022 | Conduction (CO05-HY) |
| LISN Cable            | MVE             | RG-400           | 260260                    | N/A             | Dec. 31, 2020    | Nov. 15, 2021                  | Dec. 30, 2021 | Conduction (CO05-HY) |

## 5 Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.1 dB |
|-------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.8 dB |
|-------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.3 dB |
|-------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.6 dB |
|-------------------------------------------------------------------------|--------|

**Appendix A. Test Result of Conducted Test Items**

|                |                     |                    |       |    |
|----------------|---------------------|--------------------|-------|----|
| Test Engineer: | Benny Ku            | Temperature:       | 21~25 | °C |
| Test Date:     | 2021/11/20~2022/1/7 | Relative Humidity: | 51~54 | %  |

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| 2.4GHz Band Single Antenna |           |     |     |             |                       |       |              |      |                    |           |
|----------------------------|-----------|-----|-----|-------------|-----------------------|-------|--------------|------|--------------------|-----------|
| Mod.                       | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW (MHz) |       | 6dB BW (MHz) |      | 6dB BW Limit (MHz) | Pass/Fail |
|                            |           |     |     |             | Ant4                  | Ant3  | Ant4         | Ant3 |                    |           |
| 11b                        | 1Mbps     | 1   | 1   | 2412        | 13.39                 | 13.29 | 8.08         | 8.58 | 0.50               | Pass      |
| 11b                        | 1Mbps     | 1   | 6   | 2437        | 13.34                 | 13.24 | 8.10         | 8.10 | 0.50               | Pass      |
| 11b                        | 1Mbps     | 1   | 11  | 2462        | 13.24                 | 13.44 | 8.10         | 8.10 | 0.50               | Pass      |
| 11b                        | 1Mbps     | 1   | 12  | 2467        | 13.39                 | 13.49 | 8.58         | 8.56 | 0.50               | Pass      |
| 11b                        | 1Mbps     | 1   | 13  | 2472        | 13.24                 | 13.24 | 7.60         | 8.10 | 0.50               | Pass      |

| 2.4GHz Band MIMO |           |     |     |             |                       |       |              |       |                    |           |
|------------------|-----------|-----|-----|-------------|-----------------------|-------|--------------|-------|--------------------|-----------|
| Mod.             | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW (MHz) |       | 6dB BW (MHz) |       | 6dB BW Limit (MHz) | Pass/Fail |
|                  |           |     |     |             | Ant4                  | Ant3  | Ant4         | Ant3  |                    |           |
| 11g              | 6Mbps     | 2   | 1   | 2412        | 18.48                 | 18.18 | 16.34        | 16.36 | 0.50               | Pass      |
| 11g              | 6Mbps     | 2   | 6   | 2437        | 19.23                 | 18.23 | 16.36        | 16.36 | 0.50               | Pass      |
| 11g              | 6Mbps     | 2   | 11  | 2462        | 18.43                 | 18.23 | 16.11        | 15.78 | 0.50               | Pass      |
| 11g              | 6Mbps     | 2   | 12  | 2467        | 18.53                 | 18.38 | 16.12        | 16.36 | 0.50               | Pass      |
| 11g              | 6Mbps     | 2   | 13  | 2472        | 18.03                 | 17.88 | 16.34        | 16.38 | 0.50               | Pass      |
| HT20             | MCS0      | 2   | 1   | 2412        | 19.18                 | 18.88 | 17.22        | 17.62 | 0.50               | Pass      |
| HT20             | MCS0      | 2   | 6   | 2437        | 19.73                 | 19.13 | 17.60        | 17.62 | 0.50               | Pass      |
| HT20             | MCS0      | 2   | 11  | 2462        | 19.18                 | 18.78 | 17.34        | 17.00 | 0.50               | Pass      |
| HT20             | MCS0      | 2   | 12  | 2467        | 19.23                 | 18.93 | 17.34        | 17.62 | 0.50               | Pass      |
| HT20             | MCS0      | 2   | 13  | 2472        | 18.78                 | 18.63 | 16.98        | 17.02 | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Average Output Power**

| 2.4GHz Band Single Antenna |           |     |     |             |                               |       |     |                             |       |          |       |                  |       |                        |       |            |
|----------------------------|-----------|-----|-----|-------------|-------------------------------|-------|-----|-----------------------------|-------|----------|-------|------------------|-------|------------------------|-------|------------|
| Mod.                       | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |     | Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power (dBm) |       | EIRP Power Limit (dBm) |       | Pass /Fail |
|                            |           |     |     |             | Ant4                          | Ant3  | SUM | Ant4                        | Ant3  | Ant4     | Ant3  | Ant4             | Ant3  | Ant4                   | Ant3  |            |
| 11b                        | 1Mbps     | 1   | 1   | 2412        | 18.65                         | 21.75 |     | 30.00                       | 30.00 | -2.70    | -0.20 | 15.95            | 21.55 | 36.00                  | 36.00 | Pass       |
| 11b                        | 1Mbps     | 1   | 6   | 2437        | 18.85                         | 21.75 |     | 30.00                       | 30.00 | -2.70    | -0.20 | 16.15            | 21.55 | 36.00                  | 36.00 | Pass       |
| 11b                        | 1Mbps     | 1   | 11  | 2462        | 19.15                         | 21.65 |     | 30.00                       | 30.00 | -2.70    | -0.20 | 16.45            | 21.45 | 36.00                  | 36.00 | Pass       |
| 11b                        | 1Mbps     | 1   | 12  | 2467        | 19.05                         | 21.75 |     | 30.00                       | 30.00 | -2.70    | -0.20 | 16.35            | 21.55 | 36.00                  | 36.00 | Pass       |
| 11b                        | 1Mbps     | 1   | 13  | 2472        | 18.55                         | 18.45 |     | 30.00                       | 30.00 | -2.70    | -0.20 | 15.85            | 18.25 | 36.00                  | 36.00 | Pass       |

| 2.4GHz Band MIMO |           |     |     |             |                               |       |       |                             |      |          |      |                  |      |                        |      |            |
|------------------|-----------|-----|-----|-------------|-------------------------------|-------|-------|-----------------------------|------|----------|------|------------------|------|------------------------|------|------------|
| Mod.             | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       | Conducted Power Limit (dBm) |      | DG (dBi) |      | EIRP Power (dBm) |      | EIRP Power Limit (dBm) |      | Pass /Fail |
|                  |           |     |     |             | Ant4                          | Ant3  | SUM   | Ant4                        | Ant3 | Ant4     | Ant3 | Ant4             | Ant3 | Ant4                   | Ant3 |            |
| 11g              | 6Mbps     | 2   | 1   | 2412        | 17.75                         | 16.75 | 20.29 | 30.00                       |      | -0.20    |      | 20.09            |      | 36.00                  |      | Pass       |
| 11g              | 6Mbps     | 2   | 6   | 2437        | 19.45                         | 19.35 | 22.41 | 30.00                       |      | -0.20    |      | 22.21            |      | 36.00                  |      | Pass       |
| 11g              | 6Mbps     | 2   | 11  | 2462        | 16.15                         | 15.85 | 19.01 | 30.00                       |      | -0.20    |      | 18.81            |      | 36.00                  |      | Pass       |
| 11g              | 6Mbps     | 2   | 12  | 2467        | 14.85                         | 14.35 | 17.62 | 30.00                       |      | -0.20    |      | 17.42            |      | 36.00                  |      | Pass       |
| 11g              | 6Mbps     | 2   | 13  | 2472        | 13.35                         | 12.45 | 15.93 | 30.00                       |      | -0.20    |      | 15.73            |      | 36.00                  |      | Pass       |
| HT20             | MCS0      | 2   | 1   | 2412        | 17.55                         | 16.65 | 20.13 | 30.00                       |      | -0.20    |      | 19.93            |      | 36.00                  |      | Pass       |
| HT20             | MCS0      | 2   | 6   | 2437        | 19.45                         | 19.15 | 22.31 | 30.00                       |      | -0.20    |      | 22.11            |      | 36.00                  |      | Pass       |
| HT20             | MCS0      | 2   | 11  | 2462        | 16.65                         | 16.35 | 19.51 | 30.00                       |      | -0.20    |      | 19.31            |      | 36.00                  |      | Pass       |
| HT20             | MCS0      | 2   | 12  | 2467        | 14.75                         | 14.35 | 17.56 | 30.00                       |      | -0.20    |      | 17.36            |      | 36.00                  |      | Pass       |
| HT20             | MCS0      | 2   | 13  | 2472        | 13.15                         | 12.15 | 15.69 | 30.00                       |      | -0.20    |      | 15.49            |      | 36.00                  |      | Pass       |
| VHT20            | MCS0      | 2   | 1   | 2412        | 17.45                         | 16.55 | 20.03 | 30.00                       |      | -0.20    |      | 19.83            |      | 36.00                  |      | Pass       |
| VHT20            | MCS0      | 2   | 6   | 2437        | 19.35                         | 19.05 | 22.21 | 30.00                       |      | -0.20    |      | 22.01            |      | 36.00                  |      | Pass       |
| VHT20            | MCS0      | 2   | 11  | 2462        | 16.55                         | 16.25 | 19.41 | 30.00                       |      | -0.20    |      | 19.21            |      | 36.00                  |      | Pass       |
| VHT20            | MCS0      | 2   | 12  | 2467        | 14.65                         | 14.25 | 17.46 | 30.00                       |      | -0.20    |      | 17.26            |      | 36.00                  |      | Pass       |
| VHT20            | MCS0      | 2   | 13  | 2472        | 13.05                         | 12.05 | 15.59 | 30.00                       |      | -0.20    |      | 15.39            |      | 36.00                  |      | Pass       |

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Peak Power Spectral Density**

| 2.4GHz Band Single Antenna |           |     |     |             |                     |       |              |          |       |                           |      |           |
|----------------------------|-----------|-----|-----|-------------|---------------------|-------|--------------|----------|-------|---------------------------|------|-----------|
| Mod.                       | Data Rate | NTX | CH. | Freq. (MHz) | Peak PSD (dBm/3kHz) |       |              | DG (dBi) |       | Peak PSD Limit (dBm/3kHz) |      | Pass/Fail |
|                            |           |     |     |             | Ant4                | Ant3  | Worse + 3.01 | Ant4     | Ant3  | Ant4                      | Ant3 |           |
| 11b                        | 1Mbps     | 1   | 1   | 2412        | -0.77               | -0.85 |              | -2.70    | -0.20 | 8.00                      | 8.00 | Pass      |
| 11b                        | 1Mbps     | 1   | 6   | 2437        | -2.47               | -0.38 |              | -2.70    | -0.20 | 8.00                      | 8.00 | Pass      |
| 11b                        | 1Mbps     | 1   | 11  | 2462        | -3.01               | -0.36 |              | -2.70    | -0.20 | 8.00                      | 8.00 | Pass      |
| 11b                        | 1Mbps     | 1   | 12  | 2467        | -2.85               | -1.06 |              | -2.70    | -0.20 | 8.00                      | 8.00 | Pass      |
| 11b                        | 1Mbps     | 1   | 13  | 2472        | -3.99               | -4.25 |              | -2.70    | -0.20 | 8.00                      | 8.00 | Pass      |

| 2.4GHz Band MIMO |           |     |     |             |                     |        |              |          |      |                           |      |           |
|------------------|-----------|-----|-----|-------------|---------------------|--------|--------------|----------|------|---------------------------|------|-----------|
| Mod.             | Data Rate | NTX | CH. | Freq. (MHz) | Peak PSD (dBm/3kHz) |        |              | DG (dBi) |      | Peak PSD Limit (dBm/3kHz) |      | Pass/Fail |
|                  |           |     |     |             | Ant4                | Ant3   | Worse + 3.01 | Ant4     | Ant3 | Ant4                      | Ant3 |           |
| 11g              | 6Mbps     | 2   | 1   | 2412        | -8.04               | -8.38  | -5.03        | 1.65     |      | 8.00                      |      | Pass      |
| 11g              | 6Mbps     | 2   | 6   | 2437        | -5.97               | -5.53  | -2.52        | 1.65     |      | 8.00                      |      | Pass      |
| 11g              | 6Mbps     | 2   | 11  | 2462        | -9.21               | -9.10  | -6.09        | 1.65     |      | 8.00                      |      | Pass      |
| 11g              | 6Mbps     | 2   | 12  | 2467        | -10.12              | -10.70 | -7.11        | 1.65     |      | 8.00                      |      | Pass      |
| 11g              | 6Mbps     | 2   | 13  | 2472        | -11.79              | -13.07 | -8.78        | 1.65     |      | 8.00                      |      | Pass      |
| HT20             | MCS0      | 2   | 1   | 2412        | -8.50               | -7.83  | -4.82        | 1.65     |      | 8.00                      |      | Pass      |
| HT20             | MCS0      | 2   | 6   | 2437        | -5.66               | -6.05  | -2.65        | 1.65     |      | 8.00                      |      | Pass      |
| HT20             | MCS0      | 2   | 11  | 2462        | -9.09               | -8.20  | -5.19        | 1.65     |      | 8.00                      |      | Pass      |
| HT20             | MCS0      | 2   | 12  | 2467        | -10.73              | -11.12 | -7.72        | 1.65     |      | 8.00                      |      | Pass      |
| HT20             | MCS0      | 2   | 13  | 2472        | -12.45              | -12.88 | -9.44        | 1.65     |      | 8.00                      |      | Pass      |

Measured power density (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| 2.4GHz Band MIMO |           |                 |     |             |           |                       |      |              |       |                    |           |
|------------------|-----------|-----------------|-----|-------------|-----------|-----------------------|------|--------------|-------|--------------------|-----------|
| Mod.             | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | RU Config | 99% Occupied BW (MHz) |      | 6dB BW (MHz) |       | 6dB BW Limit (MHz) | Pass/Fail |
|                  |           |                 |     |             |           | Ant4                  | Ant3 | Ant4         | Ant3  |                    |           |
| HE20             | MCS0      | 2               | 1   | 2412        | Full      | -                     | -    | 18.38        | 18.70 | 0.50               | Pass      |
| HE20             | MCS0      | 2               | 6   | 2437        | Full      | -                     | -    | 18.98        | 18.95 | 0.50               | Pass      |
| HE20             | MCS0      | 2               | 11  | 2462        | Full      | -                     | -    | 18.68        | 17.60 | 0.50               | Pass      |
| HE20             | MCS0      | 2               | 12  | 2467        | Full      | -                     | -    | 19.03        | 18.33 | 0.50               | Pass      |
| HE20             | MCS0      | 2               | 13  | 2472        | Full      | -                     | -    | 18.50        | 18.25 | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Average Output Power**

| 2.4GHz Band MIMO |           |     |     |             |           |                               |       |       |                             |      |          |      |                  |      |                        |      |            |
|------------------|-----------|-----|-----|-------------|-----------|-------------------------------|-------|-------|-----------------------------|------|----------|------|------------------|------|------------------------|------|------------|
| Mod.             | Data Rate | Ntx | CH. | Freq. (MHz) | RU Config | Average Conducted Power (dBm) |       |       | Conducted Power Limit (dBm) |      | DG (dBi) |      | EIRP Power (dBm) |      | EIRP Power Limit (dBm) |      | Pass /Fail |
|                  |           |     |     |             |           | Ant4                          | Ant3  | SUM   | Ant4                        | Ant3 | Ant4     | Ant3 | Ant4             | Ant3 | Ant4                   | Ant3 |            |
| HE20             | MCS0      | 2   | 1   | 2412        | Full      | 17.35                         | 16.45 | 19.93 | 30.00                       |      | -0.20    |      | 19.73            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 1   | 2412        | 26/0      | 9.55                          | 9.35  | 12.46 | 30.00                       |      | -0.20    |      | 12.26            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 1   | 2412        | 52/37     | 11.95                         | 11.65 | 14.81 | 30.00                       |      | -0.20    |      | 14.61            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 1   | 2412        | 106/53    | 14.75                         | 14.35 | 17.56 | 30.00                       |      | -0.20    |      | 17.36            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 6   | 2437        | Full      | 19.25                         | 18.95 | 22.11 | 30.00                       |      | -0.20    |      | 21.91            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 6   | 2437        | 26/4      | 11.45                         | 11.25 | 14.36 | 30.00                       |      | -0.20    |      | 14.16            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 6   | 2437        | 52/39     | 14.75                         | 14.75 | 17.76 | 30.00                       |      | -0.20    |      | 17.56            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 6   | 2437        | 106/53    | 17.05                         | 16.05 | 19.59 | 30.00                       |      | -0.20    |      | 19.39            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 11  | 2462        | Full      | 16.45                         | 16.15 | 19.31 | 30.00                       |      | -0.20    |      | 19.11            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 11  | 2462        | 26/8      | 9.45                          | 9.45  | 12.46 | 30.00                       |      | -0.20    |      | 12.26            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 11  | 2462        | 52/40     | 12.15                         | 11.95 | 15.06 | 30.00                       |      | -0.20    |      | 14.86            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 11  | 2462        | 106/54    | 14.65                         | 14.45 | 17.56 | 30.00                       |      | -0.20    |      | 17.36            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 12  | 2467        | Full      | 14.55                         | 14.15 | 17.36 | 30.00                       |      | -0.20    |      | 17.16            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 12  | 2467        | 26/8      | 7.65                          | 6.85  | 10.28 | 30.00                       |      | -0.20    |      | 10.08            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 12  | 2467        | 52/40     | 9.65                          | 9.55  | 12.61 | 30.00                       |      | -0.20    |      | 12.41            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 12  | 2467        | 106/54    | 12.15                         | 11.95 | 15.06 | 30.00                       |      | -0.20    |      | 14.86            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 13  | 2472        | Full      | 12.95                         | 11.95 | 15.49 | 30.00                       |      | -0.20    |      | 15.29            |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 13  | 2472        | 26/8      | 5.95                          | 5.05  | 8.53  | 30.00                       |      | -0.20    |      | 8.33             |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 13  | 2472        | 52/40     | 7.45                          | 5.75  | 9.69  | 30.00                       |      | -0.20    |      | 9.49             |      | 36.00                  |      | Pass       |
| HE20             | MCS0      | 2   | 13  | 2472        | 106/54    | 10.25                         | 9.55  | 12.92 | 30.00                       |      | -0.20    |      | 12.72            |      | 36.00                  |      | Pass       |

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Peak Power Spectral Density**

| 2.4GHz Band MIMO |           |                 |     |             |           |                     |        |              |          |      |                           |      |           |
|------------------|-----------|-----------------|-----|-------------|-----------|---------------------|--------|--------------|----------|------|---------------------------|------|-----------|
| Mod.             | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | RU Config | Peak PSD (dBm/3kHz) |        |              | DG (dBi) |      | Peak PSD Limit (dBm/3kHz) |      | Pass/Fail |
|                  |           |                 |     |             |           | Ant4                | Ant3   | Worse + 3.01 | Ant4     | Ant3 | Ant4                      | Ant3 |           |
| HE20             | MCS0      | 2               | 1   | 2412        | Full      | -7.64               | -7.34  | -4.33        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 1   | 2412        | 26/0      | -8.39               | -7.92  | -4.91        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 1   | 2412        | 52/37     | -7.68               | -7.55  | -4.54        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 1   | 2412        | 106/53    | -7.89               | -7.63  | -4.62        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 6   | 2437        | Full      | -4.78               | -5.00  | -1.77        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 6   | 2437        | 26/4      | -5.72               | -5.95  | -2.71        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 6   | 2437        | 52/39     | -5.08               | -5.62  | -2.07        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 6   | 2437        | 106/53    | -6.09               | -5.79  | -2.78        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 11  | 2462        | Full      | -7.35               | -8.72  | -4.34        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 11  | 2462        | 26/8      | -8.59               | -8.02  | -5.01        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 11  | 2462        | 52/40     | -8.16               | -8.33  | -5.15        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 11  | 2462        | 106/54    | -8.09               | -8.83  | -5.08        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 12  | 2467        | Full      | -10.16              | -10.15 | -7.14        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 12  | 2467        | 26/8      | -10.97              | -10.52 | -7.51        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 12  | 2467        | 52/40     | -10.57              | -10.83 | -7.56        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 12  | 2467        | 106/54    | -10.54              | -10.62 | -7.53        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 13  | 2472        | Full      | -11.55              | -12.52 | -8.54        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 13  | 2472        | 26/8      | -12.76              | -12.59 | -9.58        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 13  | 2472        | 52/40     | -12.23              | -13.59 | -9.22        | 1.65     |      | 8.00                      |      | Pass      |
| HE20             | MCS0      | 2               | 13  | 2472        | 106/54    | -12.43              | -12.26 | -9.25        | 1.65     |      | 8.00                      |      | Pass      |

Measured power density (dBm) has offset with cable loss.



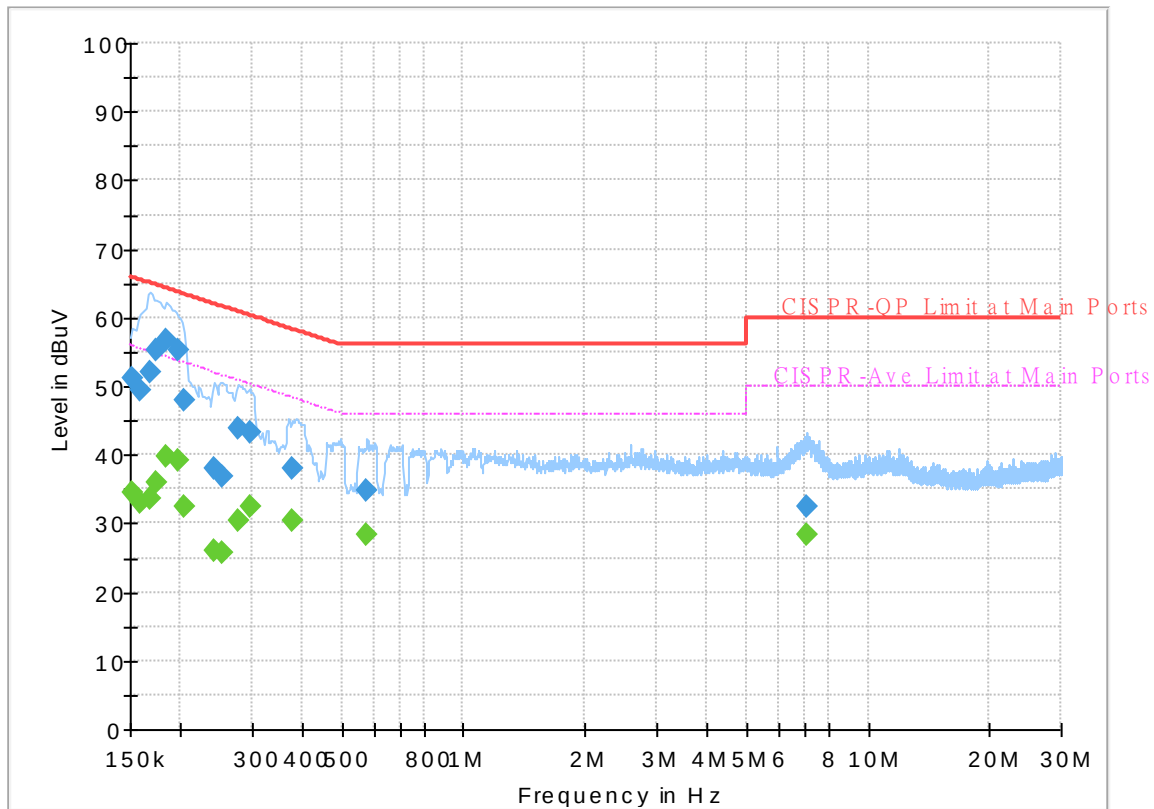
## **Appendix B. AC Conducted Emission Test Results**

|                        |         |                            |        |
|------------------------|---------|----------------------------|--------|
| <b>Test Engineer :</b> | Tom Lee | <b>Temperature :</b>       | 23~26℃ |
|                        |         | <b>Relative Humidity :</b> | 45~55% |

# EUT Information

Report NO : 161608-03  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



## Final Result

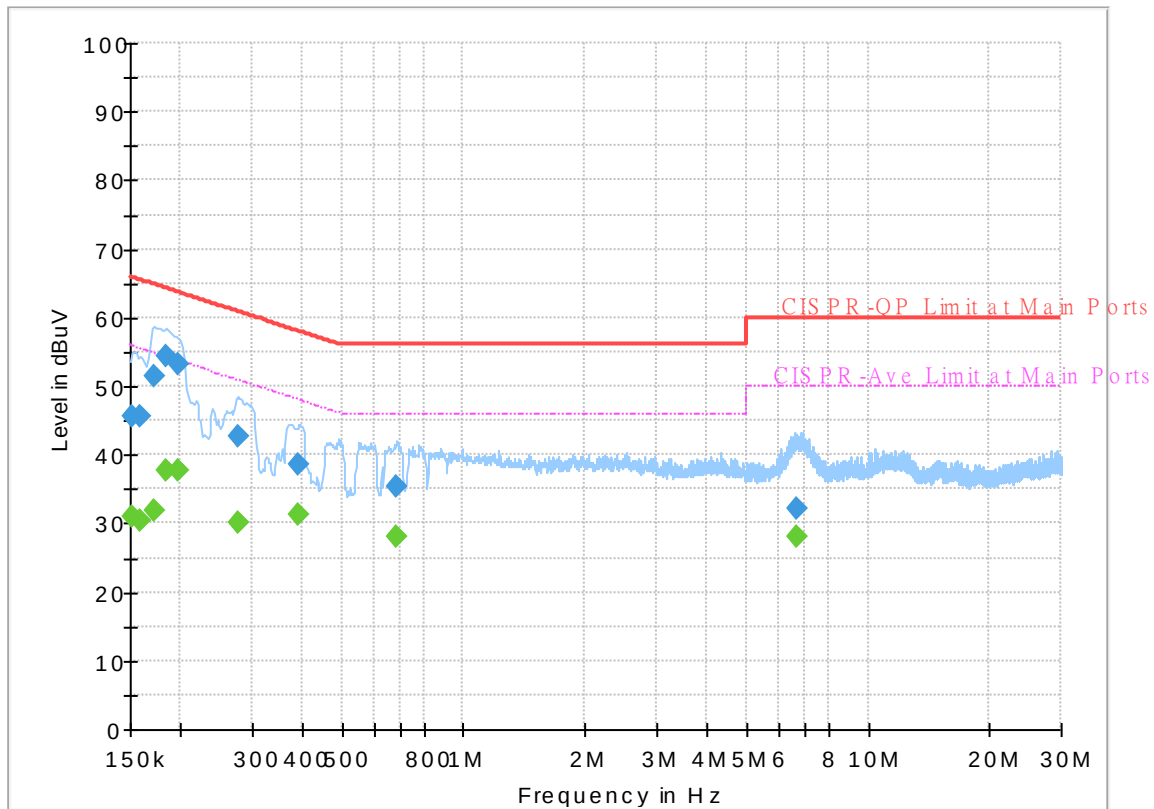
| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.152250        | ---              | 34.57           | 55.88        | 21.31       | L1   | OFF    | 19.7       |
| 0.152250        | 51.07            | ---             | 65.88        | 14.81       | L1   | OFF    | 19.7       |
| 0.159000        | ---              | 33.06           | 55.52        | 22.46       | L1   | OFF    | 19.7       |
| 0.159000        | 49.46            | ---             | 65.52        | 16.06       | L1   | OFF    | 19.7       |
| 0.168000        | ---              | 33.65           | 55.06        | 21.41       | L1   | OFF    | 19.7       |
| 0.168000        | 52.02            | ---             | 65.06        | 13.04       | L1   | OFF    | 19.7       |
| 0.174750        | ---              | 35.89           | 54.73        | 18.84       | L1   | OFF    | 19.7       |
| 0.174750        | 55.33            | ---             | 64.73        | 9.40        | L1   | OFF    | 19.7       |
| 0.183750        | ---              | 39.91           | 54.31        | 14.40       | L1   | OFF    | 19.7       |
| 0.183750        | 56.65            | ---             | 64.31        | 7.66        | L1   | OFF    | 19.7       |
| 0.197250        | ---              | 39.26           | 53.73        | 14.47       | L1   | OFF    | 19.7       |
| 0.197250        | 55.37            | ---             | 63.73        | 8.36        | L1   | OFF    | 19.7       |
| 0.204000        | ---              | 32.52           | 53.45        | 20.93       | L1   | OFF    | 19.7       |
| 0.204000        | 47.95            | ---             | 63.45        | 15.50       | L1   | OFF    | 19.7       |
| 0.242250        | ---              | 26.15           | 52.02        | 25.87       | L1   | OFF    | 19.7       |
| 0.242250        | 38.02            | ---             | 62.02        | 24.00       | L1   | OFF    | 19.7       |
| 0.253500        | ---              | 25.85           | 51.64        | 25.79       | L1   | OFF    | 19.7       |
| 0.253500        | 36.76            | ---             | 61.64        | 24.88       | L1   | OFF    | 19.7       |
| 0.278250        | ---              | 30.33           | 50.87        | 20.54       | L1   | OFF    | 19.7       |
| 0.278250        | 43.98            | ---             | 60.87        | 16.89       | L1   | OFF    | 19.7       |
| 0.296250        | ---              | 32.44           | 50.35        | 17.91       | L1   | OFF    | 19.7       |

|          |       |       |       |       |    |     |      |
|----------|-------|-------|-------|-------|----|-----|------|
| 0.296250 | 43.20 | ---   | 60.35 | 17.15 | L1 | OFF | 19.7 |
| 0.379500 | ---   | 30.34 | 48.29 | 17.95 | L1 | OFF | 19.7 |
| 0.379500 | 38.11 | ---   | 58.29 | 20.18 | L1 | OFF | 19.7 |
| 0.577500 | ---   | 28.22 | 46.00 | 17.78 | L1 | OFF | 19.9 |
| 0.577500 | 34.89 | ---   | 56.00 | 21.11 | L1 | OFF | 19.9 |
| 7.035000 | ---   | 28.42 | 50.00 | 21.58 | L1 | OFF | 20.1 |
| 7.035000 | 32.48 | ---   | 60.00 | 27.52 | L1 | OFF | 20.1 |

## EUT Information

Report NO : 161608-03  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Neutral

Full Spectrum



## Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.152250        | ---              | 31.13           | 55.88        | 24.75       | N    | OFF    | 19.7       |
| 0.152250        | 45.70            | ---             | 65.88        | 20.18       | N    | OFF    | 19.7       |
| 0.159000        | ---              | 30.45           | 55.52        | 25.07       | N    | OFF    | 19.7       |
| 0.159000        | 45.51            | ---             | 65.52        | 20.01       | N    | OFF    | 19.7       |
| 0.172500        | ---              | 31.80           | 54.84        | 23.04       | N    | OFF    | 19.7       |
| 0.172500        | 51.32            | ---             | 64.84        | 13.52       | N    | OFF    | 19.7       |
| 0.183750        | ---              | 37.68           | 54.31        | 16.63       | N    | OFF    | 19.7       |
| 0.183750        | 54.51            | ---             | 64.31        | 9.80        | N    | OFF    | 19.7       |
| 0.197250        | ---              | 37.62           | 53.73        | 16.11       | N    | OFF    | 19.7       |
| 0.197250        | 53.26            | ---             | 63.73        | 10.47       | N    | OFF    | 19.7       |
| 0.276000        | ---              | 29.98           | 50.94        | 20.96       | N    | OFF    | 19.7       |
| 0.276000        | 42.78            | ---             | 60.94        | 18.16       | N    | OFF    | 19.7       |
| 0.390750        | ---              | 31.40           | 48.05        | 16.65       | N    | OFF    | 19.7       |
| 0.390750        | 38.59            | ---             | 58.05        | 19.46       | N    | OFF    | 19.7       |
| 0.685500        | ---              | 27.99           | 46.00        | 18.01       | N    | OFF    | 20.0       |
| 0.685500        | 35.35            | ---             | 56.00        | 20.65       | N    | OFF    | 20.0       |
| 6.666000        | ---              | 27.98           | 50.00        | 22.02       | N    | OFF    | 20.1       |
| 6.666000        | 32.16            | ---             | 60.00        | 27.84       | N    | OFF    | 20.1       |



## Appendix C. Radiated Spurious Emission

|                 |                                      |                     |             |
|-----------------|--------------------------------------|---------------------|-------------|
| Test Engineer : | Leo Lee, Mancy Chou and Bigshow Wang | Temperature :       | 22.1~23.1°C |
|                 |                                      | Relative Humidity : | 55.0~60.0%  |

## 2.4GHz 2400~2483.5MHz

## WIFI 802.11b (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                        |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 4                           |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b<br>CH 01<br>2412MHz |      | 2378.86   | 49.25      | -24.75 | 74         | 46       | 27.84    | 16.55  | 41.14  | 100    | 218     | P       | H       |
|                             |      | 2387.33   | 38.94      | -15.06 | 54         | 35.69    | 27.83    | 16.56  | 41.14  | 100    | 218     | A       | H       |
|                             | *    | 2412      | 110.16     | -      | -          | 106.96   | 27.75    | 16.6   | 41.15  | 100    | 218     | P       | H       |
|                             | *    | 2412      | 107.03     | -      | -          | 103.83   | 27.75    | 16.6   | 41.15  | 100    | 218     | A       | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      | 2387.99   | 49.24      | -24.76 | 74         | 46       | 27.82    | 16.56  | 41.14  | 332    | 300     | P       | V       |
|                             |      | 2387.22   | 38.46      | -15.54 | 54         | 35.21    | 27.83    | 16.56  | 41.14  | 332    | 300     | A       | V       |
|                             | *    | 2412      | 107.93     | -      | -          | 104.73   | 27.75    | 16.6   | 41.15  | 332    | 300     | P       | V       |
|                             | *    | 2412      | 104.84     | -      | -          | 101.64   | 27.75    | 16.6   | 41.15  | 332    | 300     | A       | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11b<br>CH 06<br>2437MHz |      | 2311.44   | 48.86      | -25.14 | 74         | 45.57    | 27.98    | 16.43  | 41.12  | 100    | 215     | P       | H       |
|                             |      | 2390      | 37.57      | -16.43 | 54         | 34.33    | 27.82    | 16.56  | 41.14  | 100    | 215     | A       | H       |
|                             | *    | 2437      | 110.76     | -      | -          | 107.62   | 27.65    | 16.64  | 41.15  | 100    | 215     | P       | H       |
|                             | *    | 2437      | 107.68     | -      | -          | 104.54   | 27.65    | 16.64  | 41.15  | 100    | 215     | A       | H       |
|                             |      | 2490.01   | 49.01      | -24.99 | 74         | 45.86    | 27.6     | 16.72  | 41.17  | 100    | 215     | P       | H       |
|                             |      | 2483.53   | 37.75      | -16.25 | 54         | 34.61    | 27.6     | 16.71  | 41.17  | 100    | 215     | A       | H       |
|                             |      | 2324.56   | 49.72      | -24.28 | 74         | 46.43    | 27.95    | 16.46  | 41.12  | 331    | 300     | P       | V       |
|                             |      | 2389.84   | 37.68      | -16.32 | 54         | 34.44    | 27.82    | 16.56  | 41.14  | 331    | 300     | A       | V       |
|                             | *    | 2437      | 109.25     | -      | -          | 106.11   | 27.65    | 16.64  | 41.15  | 331    | 300     | P       | V       |
|                             | *    | 2437      | 106.13     | -      | -          | 102.99   | 27.65    | 16.64  | 41.15  | 331    | 300     | A       | V       |
|                             |      | 2489.29   | 49.38      | -24.62 | 74         | 46.23    | 27.6     | 16.72  | 41.17  | 331    | 300     | P       | V       |
|                             |      | 2483.98   | 37.72      | -16.28 | 54         | 34.58    | 27.6     | 16.71  | 41.17  | 331    | 300     | A       | V       |



|                                      |                                                                                             |         |        |        |    |        |      |       |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|------|-------|-------|-----|-----|---|---|
| <b>802.11b<br/>CH 11<br/>2462MHz</b> | *                                                                                           | 2462    | 111.8  | -      | -  | 108.68 | 27.6 | 16.68 | 41.16 | 109 | 214 | P | H |
|                                      | *                                                                                           | 2462    | 108.56 | -      | -  | 105.44 | 27.6 | 16.68 | 41.16 | 109 | 214 | A | H |
|                                      |                                                                                             | 2484.95 | 50.33  | -23.67 | 74 | 47.19  | 27.6 | 16.71 | 41.17 | 109 | 214 | P | H |
|                                      |                                                                                             | 2483.5  | 40.98  | -13.02 | 54 | 37.84  | 27.6 | 16.71 | 41.17 | 109 | 214 | A | H |
|                                      |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | H |
|                                      |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | H |
|                                      | *                                                                                           | 2462    | 109.94 | -      | -  | 106.82 | 27.6 | 16.68 | 41.16 | 355 | 306 | P | V |
|                                      | *                                                                                           | 2462    | 106.74 | -      | -  | 103.62 | 27.6 | 16.68 | 41.16 | 355 | 306 | A | V |
|                                      |                                                                                             | 2483.55 | 50.35  | -23.65 | 74 | 47.21  | 27.6 | 16.71 | 41.17 | 355 | 306 | P | V |
|                                      |                                                                                             | 2483.5  | 39.96  | -14.04 | 54 | 36.82  | 27.6 | 16.71 | 41.17 | 355 | 306 | A | V |
|                                      |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | V |
|                                      |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |      |       |       |     |     |   |   |



| WIFI<br>Ant.<br>4           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11b<br>CH 12<br>2467MHz | *                                                                                           | 2467                 | 111.75              | -                       | -                           | 108.63                    | 27.6                          | 16.68                  | 41.16                      | 100                  | 211                     | P                       | H               |
|                             | *                                                                                           | 2467                 | 108.43              | -                       | -                           | 105.31                    | 27.6                          | 16.68                  | 41.16                      | 100                  | 211                     | A                       | H               |
|                             |                                                                                             | 2483.5               | 57.21               | -16.79                  | 74                          | 54.07                     | 27.6                          | 16.71                  | 41.17                      | 100                  | 211                     | P                       | H               |
|                             |                                                                                             | 2483.5               | 50.49               | -3.51                   | 54                          | 47.35                     | 27.6                          | 16.71                  | 41.17                      | 100                  | 211                     | A                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             | *                                                                                           | 2467                 | 110.01              | -                       | -                           | 106.89                    | 27.6                          | 16.68                  | 41.16                      | 356                  | 302                     | P                       | V               |
|                             | *                                                                                           | 2467                 | 106.88              | -                       | -                           | 103.76                    | 27.6                          | 16.68                  | 41.16                      | 356                  | 302                     | A                       | V               |
|                             |                                                                                             | 2483.5               | 52.43               | -21.57                  | 74                          | 49.29                     | 27.6                          | 16.71                  | 41.17                      | 356                  | 302                     | P                       | V               |
|                             |                                                                                             | 2483.5               | 43.79               | -10.21                  | 54                          | 40.65                     | 27.6                          | 16.71                  | 41.17                      | 356                  | 302                     | A                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11b<br>CH 13<br>2472MHz | *                                                                                           | 2470                 | 109.7               | -                       | -                           | 106.57                    | 27.6                          | 16.69                  | 41.16                      | 100                  | 214                     | P                       | H               |
|                             | *                                                                                           | 2470                 | 106.55              | -                       | -                           | 103.42                    | 27.6                          | 16.69                  | 41.16                      | 100                  | 214                     | A                       | H               |
|                             |                                                                                             | 2485.6               | 56.71               | -17.29                  | 74                          | 53.57                     | 27.6                          | 16.71                  | 41.17                      | 100                  | 214                     | P                       | H               |
|                             |                                                                                             | 2485.8               | 51.46               | -2.54                   | 54                          | 48.32                     | 27.6                          | 16.71                  | 41.17                      | 100                  | 214                     | A                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             | *                                                                                           | 2472                 | 108.04              | -                       | -                           | 104.91                    | 27.6                          | 16.69                  | 41.16                      | 400                  | 292                     | P                       | V               |
|                             | *                                                                                           | 2472                 | 104.93              | -                       | -                           | 101.8                     | 27.6                          | 16.69                  | 41.16                      | 400                  | 292                     | A                       | V               |
|                             |                                                                                             | 2485.7               | 53.52               | -20.48                  | 74                          | 50.38                     | 27.6                          | 16.71                  | 41.17                      | 400                  | 292                     | P                       | V               |
|                             |                                                                                             | 2484.95              | 46.39               | -7.61                   | 54                          | 43.25                     | 27.6                          | 16.71                  | 41.17                      | 400                  | 292                     | A                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11b (Harmonic @ 3m)

| WIFI<br>Ant.<br>4           | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11b<br>CH 01<br>2412MHz |      | 4824                 | 40.46               | -33.54                  | 74                          | 57.87                     | 31.3                          | 10.15                  | 58.86                      | -                    | -                       | P                       | H               |
|                             |      | 10935                | 51.12               | -22.88                  | 74                          | 56.8                      | 40.47                         | 14.72                  | 60.87                      | -                    | -                       | P                       | H               |
|                             |      | 10935                | 41.19               | -12.81                  | 54                          | 46.87                     | 40.47                         | 14.72                  | 60.87                      | -                    | -                       | A                       | H               |
|                             |      | 14490                | 49.44               | -24.56                  | 74                          | 54.38                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | P                       | H               |
|                             |      | 14490                | 42.54               | -11.46                  | 54                          | 47.48                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | A                       | H               |
|                             |      | 18000                | 58.39               | -15.61                  | 74                          | 48.28                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | H               |
|                             |      | 18000                | 48.19               | -5.81                   | 54                          | 38.08                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      | 4824                 | 40.29               | -33.71                  | 74                          | 57.7                      | 31.3                          | 10.15                  | 58.86                      | -                    | -                       | P                       | V               |
|                             |      | 11040                | 50.62               | -23.38                  | 74                          | 56.22                     | 40.48                         | 14.78                  | 60.86                      | -                    | -                       | P                       | V               |
|                             |      | 11040                | 41.17               | -12.83                  | 54                          | 46.77                     | 40.48                         | 14.78                  | 60.86                      | -                    | -                       | A                       | V               |
|                             |      | 14475                | 50.22               | -23.78                  | 74                          | 55.22                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | V               |
|                             |      | 14475                | 42.22               | -11.78                  | 54                          | 47.22                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | V               |
|                             |      | 18000                | 58.03               | -15.97                  | 74                          | 47.92                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | V               |
|                             |      | 18000                | 48.24               | -5.76                   | 54                          | 38.13                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>4           | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11b<br>CH 06<br>2437MHz |      | 4874                 | 41.76               | -32.24                  | 74                          | 59.16                     | 31.3                          | 10.2                   | 58.9                       | -                    | -                       | P                       | H               |
|                             |      | 7311                 | 44.2                | -29.8                   | 74                          | 53.89                     | 36.32                         | 12.42                  | 58.43                      | -                    | -                       | P                       | H               |
|                             |      | 10920                | 50.5                | -23.5                   | 74                          | 56.22                     | 40.44                         | 14.71                  | 60.87                      | -                    | -                       | P                       | H               |
|                             |      | 10920                | 41.17               | -12.83                  | 54                          | 46.89                     | 40.44                         | 14.71                  | 60.87                      | -                    | -                       | A                       | H               |
|                             |      | 14490                | 49.19               | -24.81                  | 74                          | 54.13                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | P                       | H               |
|                             |      | 14490                | 42.23               | -11.77                  | 54                          | 47.17                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | A                       | H               |
|                             |      | 17985                | 57.62               | -16.38                  | 74                          | 47.85                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | P                       | H               |
|                             |      | 17985                | 48.18               | -5.82                   | 54                          | 38.41                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | A                       | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      | 4874                 | 40.06               | -33.94                  | 74                          | 57.46                     | 31.3                          | 10.2                   | 58.9                       | -                    | -                       | P                       | V               |
|                             |      | 7311                 | 44.54               | -29.46                  | 74                          | 54.23                     | 36.32                         | 12.42                  | 58.43                      | -                    | -                       | P                       | V               |
|                             |      | 10995                | 50.44               | -23.56                  | 74                          | 55.96                     | 40.59                         | 14.75                  | 60.86                      | -                    | -                       | P                       | V               |
|                             |      | 10995                | 41.22               | -12.78                  | 54                          | 46.74                     | 40.59                         | 14.75                  | 60.86                      | -                    | -                       | A                       | V               |
|                             |      | 14490                | 50.17               | -23.83                  | 74                          | 55.11                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | P                       | V               |
|                             |      | 14490                | 42.15               | -11.85                  | 54                          | 47.09                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | A                       | V               |
|                             |      | 18000                | 57.93               | -16.07                  | 74                          | 47.82                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | V               |
|                             |      | 18000                | 48.39               | -5.61                   | 54                          | 38.28                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>4                    | Note                                                                                                                                    | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11b<br/>CH 11<br/>2462MHz</b> |                                                                                                                                         | 4924                 | 39.8                | -34.2                   | 74                          | 57.1                      | 31.4                          | 10.25                  | 58.95                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 7386                 | 44.03               | -29.97                  | 74                          | 53.62                     | 36.26                         | 12.44                  | 58.29                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 11535                | 50.68               | -23.32                  | 74                          | 56.34                     | 40.23                         | 15.02                  | 60.91                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 11535                | 40.81               | -13.19                  | 54                          | 46.47                     | 40.23                         | 15.02                  | 60.91                      | -                    | -                       | A                       | H               |
|                                      |                                                                                                                                         | 14475                | 49.28               | -24.72                  | 74                          | 54.28                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 14475                | 41.89               | -12.11                  | 54                          | 46.89                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | H               |
|                                      |                                                                                                                                         | 18000                | 57.17               | -16.83                  | 74                          | 47.06                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 18000                | 48.28               | -5.72                   | 54                          | 38.17                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | H               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                                                                         | 4924                 | 40.18               | -33.82                  | 74                          | 57.48                     | 31.4                          | 10.25                  | 58.95                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 7386                 | 44.75               | -29.25                  | 74                          | 54.34                     | 36.26                         | 12.44                  | 58.29                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 10635                | 50.77               | -23.23                  | 74                          | 57.31                     | 39.8                          | 14.57                  | 60.91                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 10635                | 40.33               | -13.67                  | 54                          | 46.87                     | 39.8                          | 14.57                  | 60.91                      | -                    | -                       | A                       | V               |
|                                      |                                                                                                                                         | 14475                | 50.87               | -23.13                  | 74                          | 55.87                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 14475                | 42.17               | -11.83                  | 54                          | 47.17                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | V               |
|                                      |                                                                                                                                         | 18000                | 58.65               | -15.35                  | 74                          | 48.54                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 18000                | 48.2                | -5.8                    | 54                          | 38.09                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | V               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| <b>Remark</b>                        | 1. No other spurious found.                                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                      | 2. All results are PASS against Peak and Average limit line.                                                                            |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                      | 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                      | 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.                                    |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



| WIFI<br>Ant.<br>4           | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11b<br>CH 12<br>2467MHz |      | 4934                 | 43.09               | -30.91                  | 74                          | 60.38                     | 31.4                          | 10.26                  | 58.95                      | -                    | -                       | P                       | H               |
|                             |      | 7401                 | 44.19               | -29.81                  | 74                          | 53.81                     | 36.2                          | 12.45                  | 58.27                      | -                    | -                       | P                       | H               |
|                             |      | 11415                | 50.44               | -23.56                  | 74                          | 56.13                     | 40.22                         | 14.96                  | 60.87                      | -                    | -                       | P                       | H               |
|                             |      | 11415                | 41.27               | -12.73                  | 54                          | 46.96                     | 40.22                         | 14.96                  | 60.87                      | -                    | -                       | A                       | H               |
|                             |      | 14490                | 50.63               | -23.37                  | 74                          | 55.57                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | P                       | H               |
|                             |      | 14490                | 42.23               | -11.77                  | 54                          | 47.17                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | A                       | H               |
|                             |      | 17985                | 58.08               | -15.92                  | 74                          | 48.31                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | P                       | H               |
|                             |      | 17985                | 48.21               | -5.79                   | 54                          | 38.44                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | A                       | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      | 4934                 | 42.08               | -31.92                  | 74                          | 59.37                     | 31.4                          | 10.26                  | 58.95                      | -                    | -                       | P                       | V               |
|                             |      | 7401                 | 45.94               | -28.06                  | 74                          | 55.56                     | 36.2                          | 12.45                  | 58.27                      | -                    | -                       | P                       | V               |
|                             |      | 10875                | 50.6                | -23.4                   | 74                          | 56.44                     | 40.35                         | 14.69                  | 60.88                      | -                    | -                       | P                       | V               |
|                             |      | 10875                | 40.86               | -13.14                  | 54                          | 46.7                      | 40.35                         | 14.69                  | 60.88                      | -                    | -                       | A                       | V               |
|                             |      | 14490                | 49.88               | -24.12                  | 74                          | 54.82                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | P                       | V               |
|                             |      | 14490                | 42.31               | -11.69                  | 54                          | 47.25                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | A                       | V               |
|                             |      | 18000                | 58.26               | -15.74                  | 74                          | 48.15                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | V               |
|                             |      | 18000                | 48.43               | -5.57                   | 54                          | 38.32                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>4                    | Note                                                                                                                                    | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11b<br/>CH 13<br/>2472MHz</b> |                                                                                                                                         | 4944                 | 41.33               | -32.67                  | 74                          | 58.63                     | 31.4                          | 10.26                  | 58.96                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 7416                 | 44.83               | -29.17                  | 74                          | 54.35                     | 36.26                         | 12.46                  | 58.24                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 10995                | 50.57               | -23.43                  | 74                          | 56.09                     | 40.59                         | 14.75                  | 60.86                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 10995                | 41.07               | -12.93                  | 54                          | 46.59                     | 40.59                         | 14.75                  | 60.86                      | -                    | -                       | A                       | H               |
|                                      |                                                                                                                                         | 14475                | 49.66               | -24.34                  | 74                          | 54.66                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 14475                | 42.32               | -11.68                  | 54                          | 47.32                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | H               |
|                                      |                                                                                                                                         | 18000                | 57.54               | -16.46                  | 74                          | 47.43                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 18000                | 48.23               | -5.77                   | 54                          | 38.12                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | H               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                                                                         | 4944                 | 39.47               | -34.53                  | 74                          | 56.77                     | 31.4                          | 10.26                  | 58.96                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 7416                 | 44.3                | -29.7                   | 74                          | 53.82                     | 36.26                         | 12.46                  | 58.24                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 11025                | 50.6                | -23.4                   | 74                          | 56.17                     | 40.52                         | 14.77                  | 60.86                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 11025                | 41.21               | -12.79                  | 54                          | 46.78                     | 40.52                         | 14.77                  | 60.86                      | -                    | -                       | A                       | V               |
|                                      |                                                                                                                                         | 14475                | 49.4                | -24.6                   | 74                          | 54.4                      | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 14475                | 42.22               | -11.78                  | 54                          | 47.22                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | V               |
|                                      |                                                                                                                                         | 18000                | 58.72               | -15.28                  | 74                          | 48.61                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 18000                | 48.23               | -5.77                   | 54                          | 38.12                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | V               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| <b>Remark</b>                        | 1. No other spurious found.                                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                      | 2. All results are PASS against Peak and Average limit line.                                                                            |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                      | 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                      | 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.                                    |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |

## Emission above 18GHz

## 2.4GHz WIFI 802.11b (SHF)

[illegible]



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11b (Band Edge @ 3m)

| WIFI<br>Ant.<br>3           | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11b<br>CH 01<br>2412MHz |      | 2383.08              | 49.35               | -24.65                  | 74                          | 46.11                     | 27.83                         | 16.55                  | 41.14                      | 140                  | 115                     | P                       | H               |
|                             |      | 2387.175             | 38.92               | -15.08                  | 54                          | 35.67                     | 27.83                         | 16.56                  | 41.14                      | 140                  | 115                     | A                       | H               |
|                             | *    | 2412                 | 107.58              | -                       | -                           | 104.38                    | 27.75                         | 16.6                   | 41.15                      | 140                  | 115                     | P                       | H               |
|                             | *    | 2412                 | 104.72              | -                       | -                           | 101.52                    | 27.75                         | 16.6                   | 41.15                      | 140                  | 115                     | A                       | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      | 2384.865             | 49.74               | -24.26                  | 74                          | 46.49                     | 27.83                         | 16.56                  | 41.14                      | 381                  | 226                     | P                       | V               |
|                             |      | 2386.965             | 38.1                | -15.9                   | 54                          | 34.85                     | 27.83                         | 16.56                  | 41.14                      | 381                  | 226                     | A                       | V               |
|                             | *    | 2412                 | 103.62              | -                       | -                           | 100.42                    | 27.75                         | 16.6                   | 41.15                      | 381                  | 226                     | P                       | V               |
|                             | *    | 2412                 | 100.52              | -                       | -                           | 97.32                     | 27.75                         | 16.6                   | 41.15                      | 381                  | 226                     | A                       | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11b<br>CH 06<br>2437MHz |      | 2362.48              | 48.47               | -25.53                  | 74                          | 45.2                      | 27.88                         | 16.52                  | 41.13                      | 100                  | 109                     | P                       | H               |
|                             |      | 2318.16              | 37.21               | -16.79                  | 54                          | 33.93                     | 27.96                         | 16.44                  | 41.12                      | 100                  | 109                     | A                       | H               |
|                             | *    | 2437                 | 104.75              | -                       | -                           | 101.61                    | 27.65                         | 16.64                  | 41.15                      | 100                  | 109                     | P                       | H               |
|                             | *    | 2437                 | 101.36              | -                       | -                           | 98.22                     | 27.65                         | 16.64                  | 41.15                      | 100                  | 109                     | A                       | H               |
|                             |      | 2492.26              | 47.72               | -26.28                  | 74                          | 44.57                     | 27.6                          | 16.72                  | 41.17                      | 100                  | 109                     | P                       | H               |
|                             |      | 2483.53              | 37.14               | -16.86                  | 54                          | 34                        | 27.6                          | 16.71                  | 41.17                      | 100                  | 109                     | A                       | H               |
|                             |      | 2311.76              | 48.79               | -25.21                  | 74                          | 45.5                      | 27.98                         | 16.43                  | 41.12                      | 374                  | 227                     | P                       | V               |
|                             |      | 2322.32              | 37.22               | -16.78                  | 54                          | 33.93                     | 27.96                         | 16.45                  | 41.12                      | 374                  | 227                     | A                       | V               |
|                             | *    | 2437                 | 101.08              | -                       | -                           | 97.94                     | 27.65                         | 16.64                  | 41.15                      | 374                  | 227                     | P                       | V               |
|                             | *    | 2437                 | 97.63               | -                       | -                           | 94.49                     | 27.65                         | 16.64                  | 41.15                      | 374                  | 227                     | A                       | V               |
|                             |      | 2488.84              | 47.3                | -26.7                   | 74                          | 44.15                     | 27.6                          | 16.72                  | 41.17                      | 374                  | 227                     | P                       | V               |
|                             |      | 2483.53              | 37.2                | -16.8                   | 54                          | 34.06                     | 27.6                          | 16.71                  | 41.17                      | 374                  | 227                     | A                       | V               |



|                                                  |                                                                                             |         |        |        |    |        |      |       |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|------|-------|-------|-----|-----|---|---|
| <b>802.11b</b><br><b>CH 11</b><br><b>2462MHz</b> | *                                                                                           | 2462    | 104.19 | -      | -  | 101.07 | 27.6 | 16.68 | 41.16 | 132 | 117 | P | H |
|                                                  | *                                                                                           | 2462    | 100.94 | -      | -  | 97.82  | 27.6 | 16.68 | 41.16 | 132 | 117 | A | H |
|                                                  |                                                                                             | 2496.05 | 48.75  | -25.25 | 74 | 45.59  | 27.6 | 16.73 | 41.17 | 132 | 117 | P | H |
|                                                  |                                                                                             | 2486.75 | 37.49  | -16.51 | 54 | 34.35  | 27.6 | 16.71 | 41.17 | 132 | 117 | A | H |
|                                                  |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | H |
|                                                  |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | H |
|                                                  | *                                                                                           | 2462    | 100.32 | -      | -  | 97.2   | 27.6 | 16.68 | 41.16 | 359 | 227 | P | V |
|                                                  | *                                                                                           | 2462    | 96.85  | -      | -  | 93.73  | 27.6 | 16.68 | 41.16 | 359 | 227 | A | V |
|                                                  |                                                                                             | 2484.3  | 49.06  | -24.94 | 74 | 45.92  | 27.6 | 16.71 | 41.17 | 359 | 227 | P | V |
|                                                  |                                                                                             | 2487.5  | 37.38  | -16.62 | 54 | 34.23  | 27.6 | 16.72 | 41.17 | 359 | 227 | A | V |
|                                                  |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | V |
|                                                  |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | V |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |      |       |       |     |     |   |   |



| WIFI<br>Ant.<br>3           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11b<br>CH 12<br>2467MHz | *                                                                                           | 2467                 | 104.67              | -                       | -                           | 101.55                    | 27.6                          | 16.68                  | 41.16                      | 225                  | 113                     | P                       | H               |
|                             | *                                                                                           | 2467                 | 101.28              | -                       | -                           | 98.16                     | 27.6                          | 16.68                  | 41.16                      | 225                  | 113                     | A                       | H               |
|                             |                                                                                             | 2483.88              | 49.43               | -24.57                  | 74                          | 46.29                     | 27.6                          | 16.71                  | 41.17                      | 225                  | 113                     | P                       | H               |
|                             |                                                                                             | 2484.32              | 41.29               | -12.71                  | 54                          | 38.15                     | 27.6                          | 16.71                  | 41.17                      | 225                  | 113                     | A                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             | *                                                                                           | 2467                 | 100.23              | -                       | -                           | 97.11                     | 27.6                          | 16.68                  | 41.16                      | 173                  | 189                     | P                       | V               |
|                             | *                                                                                           | 2467                 | 96.64               | -                       | -                           | 93.52                     | 27.6                          | 16.68                  | 41.16                      | 173                  | 189                     | A                       | V               |
|                             |                                                                                             | 2483.84              | 48.56               | -25.44                  | 74                          | 45.42                     | 27.6                          | 16.71                  | 41.17                      | 173                  | 189                     | P                       | V               |
|                             |                                                                                             | 2484.32              | 39.21               | -14.79                  | 54                          | 36.07                     | 27.6                          | 16.71                  | 41.17                      | 173                  | 189                     | A                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
| 802.11b<br>CH 13<br>2472MHz | *                                                                                           | 2472                 | 104.2               | -                       | -                           | 101.07                    | 27.6                          | 16.69                  | 41.16                      | 100                  | 115                     | P                       | H               |
|                             | *                                                                                           | 2472                 | 100.98              | -                       | -                           | 97.85                     | 27.6                          | 16.69                  | 41.16                      | 100                  | 115                     | A                       | H               |
|                             |                                                                                             | 2486.56              | 51.14               | -22.86                  | 74                          | 48                        | 27.6                          | 16.71                  | 41.17                      | 100                  | 115                     | P                       | H               |
|                             |                                                                                             | 2485.92              | 43.43               | -10.57                  | 54                          | 40.29                     | 27.6                          | 16.71                  | 41.17                      | 100                  | 115                     | A                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             | *                                                                                           | 2472                 | 100.22              | -                       | -                           | 97.09                     | 27.6                          | 16.69                  | 41.16                      | 400                  | 192                     | P                       | V               |
|                             | *                                                                                           | 2472                 | 97.05               | -                       | -                           | 93.92                     | 27.6                          | 16.69                  | 41.16                      | 400                  | 192                     | A                       | V               |
|                             |                                                                                             | 2484.52              | 49.13               | -24.87                  | 74                          | 45.99                     | 27.6                          | 16.71                  | 41.17                      | 400                  | 192                     | P                       | V               |
|                             |                                                                                             | 2485.76              | 39.99               | -14.01                  | 54                          | 36.85                     | 27.6                          | 16.71                  | 41.17                      | 400                  | 192                     | A                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11b (Harmonic @ 3m)

| WIFI<br>Ant.<br>3           | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11b<br>CH 01<br>2412MHz |      | 4824                 | 51.14               | -22.86                  | 74                          | 68.55                     | 31.3                          | 10.15                  | 58.86                      | 100                  | 76                      | P                       | H               |
|                             |      | 4824                 | 48.58               | -5.42                   | 54                          | 65.99                     | 31.3                          | 10.15                  | 58.86                      | 100                  | 76                      | A                       | H               |
|                             |      | 10950                | 50.1                | -23.9                   | 74                          | 55.74                     | 40.5                          | 14.73                  | 60.87                      | -                    | -                       | P                       | H               |
|                             |      | 10950                | 41.13               | -12.87                  | 54                          | 46.77                     | 40.5                          | 14.73                  | 60.87                      | -                    | -                       | A                       | H               |
|                             |      | 14475                | 49.56               | -24.44                  | 74                          | 54.56                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | H               |
|                             |      | 14475                | 42.18               | -11.82                  | 54                          | 47.18                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | H               |
|                             |      | 18000                | 58.06               | -15.94                  | 74                          | 47.95                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | H               |
|                             |      | 18000                | 48.33               | -5.67                   | 54                          | 38.22                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      | 4824                 | 47.52               | -26.48                  | 74                          | 64.93                     | 31.3                          | 10.15                  | 58.86                      | 100                  | 38                      | P                       | V               |
|                             |      | 10980                | 50.41               | -23.59                  | 74                          | 55.97                     | 40.56                         | 14.74                  | 60.86                      | -                    | -                       | P                       | V               |
|                             |      | 10980                | 41.35               | -12.65                  | 54                          | 46.91                     | 40.56                         | 14.74                  | 60.86                      | -                    | -                       | A                       | V               |
|                             |      | 14475                | 49.25               | -24.75                  | 74                          | 54.25                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | V               |
|                             |      | 14475                | 42.29               | -11.71                  | 54                          | 47.29                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | V               |
|                             |      | 17970                | 58.11               | -15.89                  | 74                          | 48.69                     | 47.8                          | 18.93                  | 57.31                      | -                    | -                       | P                       | V               |
|                             |      | 17970                | 47.8                | -6.2                    | 54                          | 38.38                     | 47.8                          | 18.93                  | 57.31                      | -                    | -                       | A                       | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>3           | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11b<br>CH 06<br>2437MHz |      | 4874                 | 43.72               | -30.28                  | 74                          | 61.12                     | 31.3                          | 10.2                   | 58.9                       | 100                  | 89                      | P                       | H               |
|                             |      | 7311                 | 53.98               | -20.02                  | 74                          | 63.67                     | 36.32                         | 12.42                  | 58.43                      | 100                  | 139                     | P                       | H               |
|                             |      | 7311                 | 49.05               | -4.95                   | 54                          | 58.74                     | 36.32                         | 12.42                  | 58.43                      | 100                  | 139                     | A                       | H               |
|                             |      | 11145                | 51.1                | -22.9                   | 74                          | 56.96                     | 40.17                         | 14.83                  | 60.86                      | -                    | -                       | P                       | H               |
|                             |      | 11145                | 40.9                | -13.1                   | 54                          | 46.76                     | 40.17                         | 14.83                  | 60.86                      | -                    | -                       | A                       | H               |
|                             |      | 14475                | 49.07               | -24.93                  | 74                          | 54.07                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | H               |
|                             |      | 14475                | 42.32               | -11.68                  | 54                          | 47.32                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | H               |
|                             |      | 17985                | 57.46               | -16.54                  | 74                          | 47.69                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | P                       | H               |
|                             |      | 17985                | 47.94               | -6.06                   | 54                          | 38.17                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | A                       | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      | 4874                 | 41.27               | -32.73                  | 74                          | 58.67                     | 31.3                          | 10.2                   | 58.9                       | 100                  | 121                     | P                       | V               |
|                             |      | 7311                 | 53.73               | -20.27                  | 74                          | 63.42                     | 36.32                         | 12.42                  | 58.43                      | 100                  | 260                     | P                       | V               |
|                             |      | 7311                 | 48.85               | -5.15                   | 54                          | 58.54                     | 36.32                         | 12.42                  | 58.43                      | 100                  | 260                     | A                       | V               |
|                             |      | 11040                | 50.47               | -23.53                  | 74                          | 56.07                     | 40.48                         | 14.78                  | 60.86                      | -                    | -                       | P                       | V               |
|                             |      | 11040                | 41.28               | -12.72                  | 54                          | 46.88                     | 40.48                         | 14.78                  | 60.86                      | -                    | -                       | A                       | V               |
|                             |      | 14475                | 49.2                | -24.8                   | 74                          | 54.2                      | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | V               |
|                             |      | 14475                | 42.09               | -11.91                  | 54                          | 47.09                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | V               |
|                             |      | 18000                | 58.57               | -15.43                  | 74                          | 48.46                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | V               |
|                             |      | 18000                | 48.14               | -5.86                   | 54                          | 38.03                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |

| WIFI<br>Ant.<br>3                                                                                                                       | Note   | Frequency<br><br>( MHz )                                     | Level<br><br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br><br>(H/V) |   |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------|-------------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|-------------------|---|
| 802.11b<br>CH 11<br>2462MHz                                                                                                             |        | 4924                                                         | 46.17                   | -27.83                  | 74                          | 63.47                     | 31.4                          | 10.25                  | 58.95                      | 100                  | 121                     | P                     | H                 |   |
|                                                                                                                                         |        | 7386                                                         | 54.72                   | -19.28                  | 74                          | 64.31                     | 36.26                         | 12.44                  | 58.29                      | 100                  | 300                     | P                     | H                 |   |
|                                                                                                                                         |        | 7386                                                         | 50.84                   | -3.16                   | 54                          | 60.43                     | 36.26                         | 12.44                  | 58.29                      | 100                  | 300                     | A                     | H                 |   |
|                                                                                                                                         |        | 11205                                                        | 50.73                   | -23.27                  | 74                          | 56.73                     | 40                            | 14.86                  | 60.86                      | -                    | -                       | P                     | H                 |   |
|                                                                                                                                         |        | 11205                                                        | 40.81                   | -13.19                  | 54                          | 46.81                     | 40                            | 14.86                  | 60.86                      | -                    | -                       | A                     | H                 |   |
|                                                                                                                                         |        | 14490                                                        | 49.56                   | -24.44                  | 74                          | 54.5                      | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | P                     | H                 |   |
|                                                                                                                                         |        | 14490                                                        | 42.14                   | -11.86                  | 54                          | 47.08                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | A                     | H                 |   |
|                                                                                                                                         |        | 18000                                                        | 57.81                   | -16.19                  | 74                          | 47.7                      | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                     | H                 |   |
|                                                                                                                                         |        | 18000                                                        | 48.32                   | -5.68                   | 54                          | 38.21                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                     | H                 |   |
|                                                                                                                                         |        |                                                              |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | H                 |   |
|                                                                                                                                         |        |                                                              |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | H                 |   |
|                                                                                                                                         |        |                                                              |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | H                 |   |
|                                                                                                                                         |        | 4924                                                         | 45.77                   | -28.23                  | 74                          | 63.07                     | 31.4                          | 10.25                  | 58.95                      | 100                  | 67                      | P                     | V                 |   |
|                                                                                                                                         |        | 7386                                                         | 53.24                   | -20.76                  | 74                          | 62.83                     | 36.26                         | 12.44                  | 58.29                      | 100                  | 262                     | P                     | V                 |   |
|                                                                                                                                         |        | 7386                                                         | 47.99                   | -6.01                   | 54                          | 57.58                     | 36.26                         | 12.44                  | 58.29                      | 100                  | 262                     | A                     | V                 |   |
|                                                                                                                                         |        | 11250                                                        | 49.9                    | -24.1                   | 74                          | 55.88                     | 40                            | 14.88                  | 60.86                      | -                    | -                       | P                     | V                 |   |
|                                                                                                                                         |        | 11250                                                        | 40.92                   | -13.08                  | 54                          | 46.9                      | 40                            | 14.88                  | 60.86                      | -                    | -                       | A                     | V                 |   |
|                                                                                                                                         |        | 14475                                                        | 49.11                   | -24.89                  | 74                          | 54.11                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                     | V                 |   |
|                                                                                                                                         |        | 14475                                                        | 42.08                   | -11.92                  | 54                          | 47.08                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                     | V                 |   |
|                                                                                                                                         |        | 18000                                                        | 57.86                   | -16.14                  | 74                          | 47.75                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                     | V                 |   |
|                                                                                                                                         |        | 18000                                                        | 48.1                    | -5.9                    | 54                          | 37.99                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                     | V                 |   |
|                                                                                                                                         |        |                                                              |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |                   | V |
|                                                                                                                                         |        |                                                              |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |                   | V |
|                                                                                                                                         |        |                                                              |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |                   | V |
|                                                                                                                                         | Remark | 1. No other spurious found.                                  |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |                   |   |
|                                                                                                                                         |        | 2. All results are PASS against Peak and Average limit line. |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |                   |   |
| 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |        |                                                              |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |                   |   |
| 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.                                    |        |                                                              |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |                   |   |



| WIFI<br>Ant.<br>3                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11b<br/>CH 12<br/>2467MHz</b> |      | 4934                 | 46.63               | -27.37                  | 74                          | 63.92                     | 31.4                          | 10.26                  | 58.95                      | 100                  | 121                     | P                       | H               |
|                                      |      | 7401                 | 55.43               | -18.57                  | 74                          | 65.05                     | 36.2                          | 12.45                  | 58.27                      | 100                  | 300                     | P                       | H               |
|                                      |      | 7401                 | 50.95               | -3.05                   | 54                          | 60.57                     | 36.2                          | 12.45                  | 58.27                      | 100                  | 300                     | A                       | H               |
|                                      |      | 11070                | 50.68               | -23.32                  | 74                          | 56.36                     | 40.39                         | 14.79                  | 60.86                      | -                    | -                       | P                       | H               |
|                                      |      | 11070                | 41.06               | -12.94                  | 54                          | 46.74                     | 40.39                         | 14.79                  | 60.86                      | -                    | -                       | A                       | H               |
|                                      |      | 14475                | 49.97               | -24.03                  | 74                          | 54.97                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | H               |
|                                      |      | 14475                | 42.08               | -11.92                  | 54                          | 47.08                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | H               |
|                                      |      | 18000                | 58.27               | -15.73                  | 74                          | 48.16                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | H               |
|                                      |      | 18000                | 48.28               | -5.72                   | 54                          | 38.17                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      | 4934                 | 44.6                | -29.4                   | 74                          | 61.89                     | 31.4                          | 10.26                  | 58.95                      | 100                  | 57                      | P                       | V               |
|                                      |      | 7395                 | 53.59               | -20.41                  | 74                          | 63.2                      | 36.22                         | 12.45                  | 58.28                      | 100                  | 265                     | P                       | V               |
|                                      |      | 7395                 | 49.77               | -4.23                   | 54                          | 59.38                     | 36.22                         | 12.45                  | 58.28                      | 100                  | 265                     | A                       | V               |
|                                      |      | 10740                | 50.5                | -23.5                   | 74                          | 56.82                     | 39.96                         | 14.62                  | 60.9                       | -                    | -                       | P                       | V               |
|                                      |      | 10740                | 40.6                | -13.4                   | 54                          | 46.92                     | 39.96                         | 14.62                  | 60.9                       | -                    | -                       | A                       | V               |
|                                      |      | 14490                | 50.62               | -23.38                  | 74                          | 55.56                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | P                       | V               |
|                                      |      | 14490                | 42.28               | -11.72                  | 54                          | 47.22                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | A                       | V               |
|                                      |      | 17970                | 58.26               | -15.74                  | 74                          | 48.84                     | 47.8                          | 18.93                  | 57.31                      | -                    | -                       | P                       | V               |
|                                      |      | 17970                | 47.64               | -6.36                   | 54                          | 38.22                     | 47.8                          | 18.93                  | 57.31                      | -                    | -                       | A                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |

| WIFI<br>Ant.<br>3                   | Note                                                                                                                                    | Frequency<br><br>( MHz ) | Level<br><br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11b<br><br>CH 13<br><br>2472MHz |                                                                                                                                         | 4944                     | 46.26                   | -27.74                  | 74                          | 63.56                     | 31.4                          | 10.26                  | 58.96                      | 100                  | 129                     | P                     | H             |
|                                     |                                                                                                                                         | 7416                     | 54.44                   | -19.56                  | 74                          | 63.96                     | 36.26                         | 12.46                  | 58.24                      | 100                  | 300                     | P                     | H             |
|                                     |                                                                                                                                         | 7416                     | 49.85                   | -4.15                   | 54                          | 59.37                     | 36.26                         | 12.46                  | 58.24                      | 100                  | 300                     | A                     | H             |
|                                     |                                                                                                                                         | 11070                    | 50.73                   | -23.27                  | 74                          | 56.41                     | 40.39                         | 14.79                  | 60.86                      | -                    | -                       | P                     | H             |
|                                     |                                                                                                                                         | 11070                    | 41.2                    | -12.8                   | 54                          | 46.88                     | 40.39                         | 14.79                  | 60.86                      | -                    | -                       | A                     | H             |
|                                     |                                                                                                                                         | 14490                    | 49.35                   | -24.65                  | 74                          | 54.29                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | P                     | H             |
|                                     |                                                                                                                                         | 14490                    | 42                      | -12                     | 54                          | 46.94                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | A                     | H             |
|                                     |                                                                                                                                         | 18000                    | 58.96                   | -15.04                  | 74                          | 48.85                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                     | H             |
|                                     |                                                                                                                                         | 18000                    | 48.28                   | -5.72                   | 54                          | 38.17                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                     | H             |
|                                     |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                                                                         | 4944                     | 45.21                   | -28.79                  | 74                          | 62.51                     | 31.4                          | 10.26                  | 58.96                      | 100                  | 21                      | P                     | V             |
|                                     |                                                                                                                                         | 7416                     | 52.95                   | -21.05                  | 74                          | 62.47                     | 36.26                         | 12.46                  | 58.24                      | 100                  | 256                     | P                     | V             |
|                                     |                                                                                                                                         | 7416                     | 48.89                   | -5.11                   | 54                          | 58.41                     | 36.26                         | 12.46                  | 58.24                      | 100                  | 256                     | A                     | V             |
|                                     |                                                                                                                                         | 11385                    | 50.38                   | -23.62                  | 74                          | 56.13                     | 40.17                         | 14.95                  | 60.87                      | -                    | -                       | P                     | V             |
|                                     |                                                                                                                                         | 11385                    | 41.04                   | -12.96                  | 54                          | 46.79                     | 40.17                         | 14.95                  | 60.87                      | -                    | -                       | A                     | V             |
|                                     |                                                                                                                                         | 14475                    | 50.01                   | -23.99                  | 74                          | 55.01                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                     | V             |
|                                     |                                                                                                                                         | 14475                    | 42.28                   | -11.72                  | 54                          | 47.28                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                     | V             |
|                                     |                                                                                                                                         | 18000                    | 57.7                    | -16.3                   | 74                          | 47.59                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                     | V             |
|                                     |                                                                                                                                         | 18000                    | 48.32                   | -5.68                   | 54                          | 38.21                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                     | V             |
|                                     |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.                                                                                                             |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |               |
|                                     | 2. All results are PASS against Peak and Average limit line.                                                                            |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |               |
|                                     | 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |               |
|                                     | 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.                                    |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |               |

## Emission above 18GHz

## 2.4GHz WIFI 802.11b (SHF)

| WIFI                         | Note | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|------------------------------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                         |      |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 3                            |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br>802.11b<br><br>SHF |      | 23352     | 41.68      | -32.32 | 74         | 59.9   | 38.86    | -3.05  | 54.03  | -      | -       | P     | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         | H     |       |
|                              |      |           |            |        |            |        |          |        |        |        |         |       |       |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11g (Band Edge @ 3m)

| WIFI<br>Ant.<br>4+3         | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11g<br>CH 01<br>2412MHz |      | 2389.485             | 64.3                | -9.7                    | 74                          | 61.06                     | 27.82                         | 16.56                  | 41.14                      | 100                  | 205                     | P                       | H               |
|                             |      | 2390                 | 51.92               | -2.08                   | 54                          | 48.68                     | 27.82                         | 16.56                  | 41.14                      | 100                  | 205                     | A                       | H               |
|                             | *    | 2412                 | 109.88              | -                       | -                           | 106.68                    | 27.75                         | 16.6                   | 41.15                      | 100                  | 205                     | P                       | H               |
|                             | *    | 2412                 | 102.38              | -                       | -                           | 99.18                     | 27.75                         | 16.6                   | 41.15                      | 100                  | 205                     | A                       | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      | 2389.38              | 54.54               | -19.46                  | 74                          | 51.3                      | 27.82                         | 16.56                  | 41.14                      | 377                  | 233                     | P                       | V               |
|                             |      | 2390                 | 44.43               | -9.57                   | 54                          | 41.19                     | 27.82                         | 16.56                  | 41.14                      | 377                  | 233                     | A                       | V               |
|                             | *    | 2412                 | 106.38              | -                       | -                           | 103.18                    | 27.75                         | 16.6                   | 41.15                      | 377                  | 233                     | P                       | V               |
|                             | *    | 2412                 | 98.54               | -                       | -                           | 95.34                     | 27.75                         | 16.6                   | 41.15                      | 377                  | 233                     | A                       | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11g<br>CH 06<br>2437MHz |      | 2390                 | 52.07               | -21.93                  | 74                          | 48.83                     | 27.82                         | 16.56                  | 41.14                      | 100                  | 208                     | P                       | H               |
|                             |      | 2378                 | 38.29               | -15.71                  | 54                          | 35.05                     | 27.84                         | 16.54                  | 41.14                      | 100                  | 208                     | A                       | H               |
|                             | *    | 2437                 | 110.97              | -                       | -                           | 107.83                    | 27.65                         | 16.64                  | 41.15                      | 100                  | 208                     | P                       | H               |
|                             | *    | 2437                 | 103.67              | -                       | -                           | 100.53                    | 27.65                         | 16.64                  | 41.15                      | 100                  | 208                     | A                       | H               |
|                             |      | 2484.07              | 49.41               | -24.59                  | 74                          | 46.27                     | 27.6                          | 16.71                  | 41.17                      | 100                  | 208                     | P                       | H               |
|                             |      | 2483.98              | 38.46               | -15.54                  | 54                          | 35.32                     | 27.6                          | 16.71                  | 41.17                      | 100                  | 208                     | A                       | H               |
|                             |      | 2310.16              | 49.11               | -24.89                  | 74                          | 45.82                     | 27.98                         | 16.43                  | 41.12                      | 400                  | 300                     | P                       | V               |
|                             |      | 2388.4               | 38.48               | -15.52                  | 54                          | 35.24                     | 27.82                         | 16.56                  | 41.14                      | 400                  | 300                     | A                       | V               |
|                             | *    | 2437                 | 107.28              | -                       | -                           | 104.14                    | 27.65                         | 16.64                  | 41.15                      | 400                  | 300                     | P                       | V               |
|                             | *    | 2437                 | 98.59               | -                       | -                           | 95.45                     | 27.65                         | 16.64                  | 41.15                      | 400                  | 300                     | A                       | V               |
|                             |      | 2483.89              | 49.19               | -24.81                  | 74                          | 46.05                     | 27.6                          | 16.71                  | 41.17                      | 400                  | 300                     | P                       | V               |
|                             |      | 2483.98              | 38.56               | -15.44                  | 54                          | 35.42                     | 27.6                          | 16.71                  | 41.17                      | 400                  | 300                     | A                       | V               |



|                                                  |                                                                                             |         |        |        |    |        |      |       |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|------|-------|-------|-----|-----|---|---|
| <b>802.11g</b><br><b>CH 11</b><br><b>2462MHz</b> | *                                                                                           | 2462    | 110.87 | -      | -  | 107.75 | 27.6 | 16.68 | 41.16 | 111 | 217 | P | H |
|                                                  | *                                                                                           | 2462    | 103.18 | -      | -  | 100.06 | 27.6 | 16.68 | 41.16 | 111 | 217 | A | H |
|                                                  |                                                                                             | 2483.76 | 63.59  | -10.41 | 74 | 60.45  | 27.6 | 16.71 | 41.17 | 111 | 217 | P | H |
|                                                  |                                                                                             | 2483.64 | 51.44  | -2.56  | 54 | 48.3   | 27.6 | 16.71 | 41.17 | 111 | 217 | A | H |
|                                                  |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | H |
|                                                  |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | H |
|                                                  | *                                                                                           | 2462    | 103.76 | -      | -  | 100.64 | 27.6 | 16.68 | 41.16 | 184 | 306 | P | V |
|                                                  | *                                                                                           | 2462    | 96.01  | -      | -  | 92.89  | 27.6 | 16.68 | 41.16 | 184 | 306 | A | V |
|                                                  |                                                                                             | 2483.92 | 51.62  | -22.38 | 74 | 48.48  | 27.6 | 16.71 | 41.17 | 184 | 306 | P | V |
|                                                  |                                                                                             | 2483.68 | 40.39  | -13.61 | 54 | 37.25  | 27.6 | 16.71 | 41.17 | 184 | 306 | A | V |
|                                                  |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | V |
|                                                  |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | V |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |      |       |       |     |     |   |   |



| WIFI<br>Ant.<br>4+3         | Note                                                         | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|--------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11g<br>CH 12<br>2467MHz | *                                                            | 2467                 | 109.55              | -                       | -                           | 106.43                    | 27.6                          | 16.68                  | 41.16                      | 106                  | 218                     | P                       | H               |
|                             | *                                                            | 2467                 | 101.75              | -                       | -                           | 98.63                     | 27.6                          | 16.68                  | 41.16                      | 106                  | 218                     | A                       | H               |
|                             |                                                              | 2484.32              | 62.01               | -11.99                  | 74                          | 58.87                     | 27.6                          | 16.71                  | 41.17                      | 106                  | 218                     | P                       | H               |
|                             |                                                              | 2483.68              | 52.13               | -1.87                   | 54                          | 48.99                     | 27.6                          | 16.71                  | 41.17                      | 106                  | 218                     | A                       | H               |
|                             |                                                              |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                              |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             | *                                                            | 2467                 | 98.59               | -                       | -                           | 95.47                     | 27.6                          | 16.68                  | 41.16                      | 247                  | 304                     | P                       | V               |
|                             | *                                                            | 2467                 | 90.52               | -                       | -                           | 87.4                      | 27.6                          | 16.68                  | 41.16                      | 247                  | 304                     | A                       | V               |
|                             |                                                              | 2484.28              | 48.71               | -25.29                  | 74                          | 45.57                     | 27.6                          | 16.71                  | 41.17                      | 247                  | 304                     | P                       | V               |
|                             |                                                              | 2483.64              | 39.49               | -14.51                  | 54                          | 36.35                     | 27.6                          | 16.71                  | 41.17                      | 247                  | 304                     | A                       | V               |
|                             |                                                              |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                              |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                              |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
| 802.11g<br>CH 13<br>2472MHz | *                                                            | 2472                 | 107.47              | -                       | -                           | 104.34                    | 27.6                          | 16.69                  | 41.16                      | 100                  | 212                     | P                       | H               |
|                             | *                                                            | 2472                 | 100.12              | -                       | -                           | 96.99                     | 27.6                          | 16.69                  | 41.16                      | 100                  | 212                     | A                       | H               |
|                             |                                                              | 2485.28              | 62.66               | -11.34                  | 74                          | 59.52                     | 27.6                          | 16.71                  | 41.17                      | 100                  | 212                     | P                       | H               |
|                             |                                                              | 2483.8               | 51.04               | -2.96                   | 54                          | 47.9                      | 27.6                          | 16.71                  | 41.17                      | 100                  | 212                     | A                       | H               |
|                             |                                                              |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                              |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             | *                                                            | 2472                 | 103.59              | -                       | -                           | 100.46                    | 27.6                          | 16.69                  | 41.16                      | 354                  | 303                     | P                       | V               |
|                             | *                                                            | 2472                 | 95.75               | -                       | -                           | 92.62                     | 27.6                          | 16.69                  | 41.16                      | 354                  | 303                     | A                       | V               |
|                             |                                                              | 2483.8               | 52.26               | -21.74                  | 74                          | 49.12                     | 27.6                          | 16.71                  | 41.17                      | 354                  | 303                     | P                       | V               |
|                             |                                                              | 2483.52              | 42.55               | -11.45                  | 54                          | 39.41                     | 27.6                          | 16.71                  | 41.17                      | 354                  | 303                     | A                       | V               |
|                             |                                                              |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                              |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                              |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
| Remark                      | 1. No other spurious found.                                  |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                             | 2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11g (Harmonic @ 3m)

| WIFI<br>Ant.<br>4+3         | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11g<br>CH 01<br>2412MHz |      | 4824                 | 40.15               | -33.85                  | 74                          | 57.56                     | 31.3                          | 10.15                  | 58.86                      | -                    | -                       | P                       | H               |
|                             |      | 7250                 | 52.27               | -21.73                  | 74                          | 62.1                      | 36.3                          | 12.4                   | 58.53                      | 100                  | 301                     | P                       | H               |
|                             |      | 7250                 | 39.88               | -14.12                  | 54                          | 49.71                     | 36.3                          | 12.4                   | 58.53                      | 100                  | 301                     | A                       | H               |
|                             |      | 10965                | 52.12               | -21.88                  | 74                          | 57.71                     | 40.53                         | 14.74                  | 60.86                      | -                    | -                       | P                       | H               |
|                             |      | 10965                | 42.05               | -11.95                  | 54                          | 47.64                     | 40.53                         | 14.74                  | 60.86                      | -                    | -                       | A                       | H               |
|                             |      | 14500                | 51.18               | -22.82                  | 74                          | 56.09                     | 41.4                          | 16.86                  | 63.17                      | -                    | -                       | P                       | H               |
|                             |      | 14500                | 41.16               | -12.84                  | 54                          | 46.07                     | 41.4                          | 16.86                  | 63.17                      | -                    | -                       | A                       | H               |
|                             |      | 18000                | 58.87               | -15.13                  | 74                          | 48.76                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | H               |
|                             |      | 18000                | 48.83               | -5.17                   | 54                          | 38.72                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |      | 4824                 | 39.3                | -34.7                   | 74                          | 56.71                     | 31.3                          | 10.15                  | 58.86                      | -                    | -                       | P                       | V               |
|                             |      | 7250                 | 53.51               | -20.49                  | 74                          | 63.34                     | 36.3                          | 12.4                   | 58.53                      | 100                  | 260                     | P                       | V               |
|                             |      | 7250                 | 39.73               | -14.27                  | 54                          | 49.56                     | 36.3                          | 12.4                   | 58.53                      | 100                  | 260                     | A                       | V               |
|                             |      | 10605                | 50.62               | -23.38                  | 74                          | 57.18                     | 39.8                          | 14.56                  | 60.92                      | -                    | -                       | P                       | V               |
|                             |      | 10605                | 40.66               | -13.34                  | 54                          | 47.22                     | 39.8                          | 14.56                  | 60.92                      | -                    | -                       | A                       | V               |
|                             |      | 14500                | 51.77               | -22.23                  | 74                          | 56.68                     | 41.4                          | 16.86                  | 63.17                      | -                    | -                       | P                       | V               |
|                             |      | 14505                | 41.71               | -12.29                  | 54                          | 46.61                     | 41.4                          | 16.87                  | 63.17                      | -                    | -                       | A                       | V               |
|                             |      | 18000                | 59.24               | -14.76                  | 74                          | 49.13                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | V               |
|                             |      | 18000                | 49.22               | -4.78                   | 54                          | 39.11                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>4+3                  | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11g<br/>CH 06<br/>2437MHz</b> |      | 4874                 | 50.32               | -23.68                  | 74                          | 67.72                     | 31.3                          | 10.2                   | 58.9                       | 100                  | 97                      | P                       | H               |
|                                      |      | 4874                 | 38.89               | -15.11                  | 54                          | 56.29                     | 31.3                          | 10.2                   | 58.9                       | 100                  | 97                      | A                       | H               |
|                                      |      | 7311                 | 62.06               | -11.94                  | 74                          | 71.75                     | 36.32                         | 12.42                  | 58.43                      | 100                  | 139                     | P                       | H               |
|                                      |      | 7311                 | 49.1                | -4.9                    | 54                          | 58.79                     | 36.32                         | 12.42                  | 58.43                      | 100                  | 139                     | A                       | H               |
|                                      |      | 10980                | 51.32               | -22.68                  | 74                          | 56.88                     | 40.56                         | 14.74                  | 60.86                      | -                    | -                       | P                       | H               |
|                                      |      | 10980                | 40.28               | -13.72                  | 54                          | 45.84                     | 40.56                         | 14.74                  | 60.86                      | -                    | -                       | A                       | H               |
|                                      |      | 14490                | 50.82               | -23.18                  | 74                          | 55.76                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | P                       | H               |
|                                      |      | 14490                | 40.8                | -13.2                   | 54                          | 45.74                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | A                       | H               |
|                                      |      | 17985                | 58.53               | -15.47                  | 74                          | 48.76                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | P                       | H               |
|                                      |      | 17985                | 48.48               | -5.52                   | 54                          | 38.71                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | A                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |      | 4874                 | 47.82               | -26.18                  | 74                          | 65.22                     | 31.3                          | 10.2                   | 58.9                       | 400                  | 200                     | P                       | V               |
|                                      |      | 4874                 | 36.22               | -17.78                  | 54                          | 53.62                     | 31.3                          | 10.2                   | 58.9                       | 400                  | 200                     | A                       | V               |
|                                      |      | 7311                 | 60.85               | -13.15                  | 74                          | 70.54                     | 36.32                         | 12.42                  | 58.43                      | 100                  | 257                     | P                       | V               |
|                                      |      | 7311                 | 47.46               | -6.54                   | 54                          | 57.15                     | 36.32                         | 12.42                  | 58.43                      | 100                  | 257                     | A                       | V               |
|                                      |      | 10935                | 51.6                | -22.4                   | 74                          | 57.28                     | 40.47                         | 14.72                  | 60.87                      | -                    | -                       | P                       | V               |
|                                      |      | 10935                | 41.59               | -12.41                  | 54                          | 47.27                     | 40.47                         | 14.72                  | 60.87                      | -                    | -                       | A                       | V               |
|                                      |      | 14490                | 50.62               | -23.38                  | 74                          | 55.56                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | P                       | V               |
|                                      |      | 14490                | 40.6                | -13.4                   | 54                          | 45.54                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | A                       | V               |
|                                      |      | 18000                | 59.27               | -14.73                  | 74                          | 49.16                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | V               |
|                                      |      | 18000                | 49.26               | -4.74                   | 54                          | 39.15                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |

| WIFI<br>Ant.<br>4+3         | Note                                                                                                                                    | Frequency<br><br>( MHz ) | Level<br><br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br><br>(H/V) |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|-------------------|
| 802.11g<br>CH 11<br>2462MHz |                                                                                                                                         | 4924                     | 40.96                   | -33.04                  | 74                          | 58.26                     | 31.4                          | 10.25                  | 58.95                      | -                    | -                       | P                     | H                 |
|                             |                                                                                                                                         | 7386                     | 46.77                   | -27.23                  | 74                          | 56.36                     | 36.26                         | 12.44                  | 58.29                      | -                    | -                       | P                     | H                 |
|                             |                                                                                                                                         | 10995                    | 52.1                    | -21.9                   | 74                          | 57.62                     | 40.59                         | 14.75                  | 60.86                      | -                    | -                       | P                     | H                 |
|                             |                                                                                                                                         | 10995                    | 42.09                   | -11.91                  | 54                          | 47.61                     | 40.59                         | 14.75                  | 60.86                      | -                    | -                       | A                     | H                 |
|                             |                                                                                                                                         | 14475                    | 51.54                   | -22.46                  | 74                          | 56.54                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                     | H                 |
|                             |                                                                                                                                         | 14475                    | 41.52                   | -12.48                  | 54                          | 46.52                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                     | H                 |
|                             |                                                                                                                                         | 17985                    | 59.13                   | -14.87                  | 74                          | 49.36                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | P                     | H                 |
|                             |                                                                                                                                         | 17985                    | 49.12                   | -4.88                   | 54                          | 39.35                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | A                     | H                 |
|                             |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                             |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                             |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                             |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | H                 |
|                             |                                                                                                                                         | 4924                     | 41.32                   | -32.68                  | 74                          | 58.62                     | 31.4                          | 10.25                  | 58.95                      | -                    | -                       | P                     | V                 |
|                             |                                                                                                                                         | 7386                     | 46.64                   | -27.36                  | 74                          | 56.23                     | 36.26                         | 12.44                  | 58.29                      | -                    | -                       | P                     | V                 |
|                             |                                                                                                                                         | 10920                    | 51.06                   | -22.94                  | 74                          | 56.78                     | 40.44                         | 14.71                  | 60.87                      | -                    | -                       | P                     | V                 |
|                             |                                                                                                                                         | 10920                    | 41.02                   | -12.98                  | 54                          | 46.74                     | 40.44                         | 14.71                  | 60.87                      | -                    | -                       | A                     | V                 |
|                             |                                                                                                                                         | 14500                    | 51.26                   | -22.74                  | 74                          | 56.17                     | 41.4                          | 16.86                  | 63.17                      | -                    | -                       | P                     | V                 |
|                             |                                                                                                                                         | 14500                    | 41.23                   | -12.77                  | 54                          | 46.14                     | 41.4                          | 16.86                  | 63.17                      | -                    | -                       | A                     | V                 |
|                             |                                                                                                                                         | 18000                    | 59.27                   | -14.73                  | 74                          | 49.16                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                     | V                 |
|                             |                                                                                                                                         | 18000                    | 49.24                   | -4.76                   | 54                          | 39.13                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                     | V                 |
|                             |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | V                 |
|                             |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | V                 |
|                             |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | V                 |
|                             |                                                                                                                                         |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       | V                 |
| Remark                      | 1. No other spurious found.                                                                                                             |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |                   |
|                             | 2. All results are PASS against Peak and Average limit line.                                                                            |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |                   |
|                             | 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |                   |
|                             | 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.                                    |                          |                         |                         |                             |                           |                               |                        |                            |                      |                         |                       |                   |



| WIFI<br>Ant.<br>4+3          | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| i802.11g<br>CH 12<br>2467MHz |      | 4934                 | 40.4                | -33.6                   | 74                          | 57.69                     | 31.4                          | 10.26                  | 58.95                      | -                    | -                       | P                       | H               |
|                              |      | 7401                 | 45.63               | -28.37                  | 74                          | 55.25                     | 36.2                          | 12.45                  | 58.27                      | -                    | -                       | P                       | H               |
|                              |      | 10770                | 51.96               | -22.04                  | 74                          | 58.13                     | 40.08                         | 14.64                  | 60.89                      | -                    | -                       | P                       | H               |
|                              |      | 10770                | 41.94               | -12.06                  | 54                          | 48.11                     | 40.08                         | 14.64                  | 60.89                      | -                    | -                       | A                       | H               |
|                              |      | 14500                | 50.68               | -23.32                  | 74                          | 55.59                     | 41.4                          | 16.86                  | 63.17                      | -                    | -                       | P                       | H               |
|                              |      | 14500                | 40.66               | -13.34                  | 54                          | 45.57                     | 41.4                          | 16.86                  | 63.17                      | -                    | -                       | A                       | H               |
|                              |      | 18000                | 58.54               | -15.46                  | 74                          | 48.43                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | H               |
|                              |      | 18000                | 48.66               | -5.34                   | 54                          | 38.55                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                              |      | 4934                 | 40.66               | -33.34                  | 74                          | 57.95                     | 31.4                          | 10.26                  | 58.95                      | -                    | -                       | P                       | V               |
|                              |      | 7401                 | 45.22               | -28.78                  | 74                          | 54.84                     | 36.2                          | 12.45                  | 58.27                      | -                    | -                       | P                       | V               |
|                              |      | 10950                | 51.51               | -22.49                  | 74                          | 57.15                     | 40.5                          | 14.73                  | 60.87                      | -                    | -                       | P                       | V               |
|                              |      | 10950                | 41.5                | -12.5                   | 54                          | 47.14                     | 40.5                          | 14.73                  | 60.87                      | -                    | -                       | A                       | V               |
|                              |      | 14500                | 51.93               | -22.07                  | 74                          | 56.84                     | 41.4                          | 16.86                  | 63.17                      | -                    | -                       | P                       | V               |
|                              |      | 14500                | 41.91               | -12.09                  | 54                          | 46.82                     | 41.4                          | 16.86                  | 63.17                      | -                    | -                       | A                       | V               |
|                              |      | 18000                | 58.86               | -15.14                  | 74                          | 48.75                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | V               |
|                              |      | 18000                | 48.87               | -5.13                   | 54                          | 38.76                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>4+3                  | Note                                                                                                                                    | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11g<br/>CH 13<br/>2472MHz</b> |                                                                                                                                         | 4944                 | 40.57               | -33.43                  | 74                          | 57.87                     | 31.4                          | 10.26                  | 58.96                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 7416                 | 45.28               | -28.72                  | 74                          | 54.8                      | 36.26                         | 12.46                  | 58.24                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 10890                | 51.76               | -22.24                  | 74                          | 57.56                     | 40.38                         | 14.7                   | 60.88                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 10890                | 41.73               | -12.27                  | 54                          | 47.53                     | 40.38                         | 14.7                   | 60.88                      | -                    | -                       | A                       | H               |
|                                      |                                                                                                                                         | 14500                | 51                  | -23                     | 74                          | 55.91                     | 41.4                          | 16.86                  | 63.17                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 14500                | 40.98               | -13.02                  | 54                          | 45.89                     | 41.4                          | 16.86                  | 63.17                      | -                    | -                       | A                       | H               |
|                                      |                                                                                                                                         | 17985                | 59.16               | -14.84                  | 74                          | 49.39                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | P                       | H               |
|                                      |                                                                                                                                         | 17985                | 49.09               | -4.91                   | 54                          | 39.32                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | A                       | H               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                                                                         | 4944                 | 40.23               | -33.77                  | 74                          | 57.53                     | 31.4                          | 10.26                  | 58.96                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 7416                 | 44.83               | -29.17                  | 74                          | 54.35                     | 36.26                         | 12.46                  | 58.24                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 10635                | 51.22               | -22.78                  | 74                          | 57.76                     | 39.8                          | 14.57                  | 60.91                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 10635                | 41.18               | -12.82                  | 54                          | 47.72                     | 39.8                          | 14.57                  | 60.91                      | -                    | -                       | A                       | V               |
|                                      |                                                                                                                                         | 14475                | 51.13               | -22.87                  | 74                          | 56.13                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 14475                | 41.1                | -12.9                   | 54                          | 46.1                      | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | V               |
|                                      |                                                                                                                                         | 18000                | 59.74               | -14.26                  | 74                          | 49.63                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | V               |
|                                      |                                                                                                                                         | 18000                | 49.72               | -4.28                   | 54                          | 39.61                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | V               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| <b>Remark</b>                        | 1. No other spurious found.                                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                      | 2. All results are PASS against Peak and Average limit line.                                                                            |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                      | 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                      | 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.                                    |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>4+3                 | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 01<br>2412MHz |      | 2389.905             | 64.69               | -9.31                   | 74                          | 61.45                     | 27.82                         | 16.56                  | 41.14                      | 100                  | 209                     | P                       | H               |
|                                     |      | 2389.905             | 51.41               | -2.59                   | 54                          | 48.17                     | 27.82                         | 16.56                  | 41.14                      | 100                  | 209                     | A                       | H               |
|                                     | *    | 2412                 | 108.75              | -                       | -                           | 105.55                    | 27.75                         | 16.6                   | 41.15                      | 100                  | 209                     | P                       | H               |
|                                     | *    | 2412                 | 101.32              | -                       | -                           | 98.12                     | 27.75                         | 16.6                   | 41.15                      | 100                  | 209                     | A                       | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |      | 2390                 | 52.35               | -21.65                  | 74                          | 49.11                     | 27.82                         | 16.56                  | 41.14                      | 259                  | 322                     | P                       | V               |
|                                     |      | 2390                 | 41.27               | -12.73                  | 54                          | 38.03                     | 27.82                         | 16.56                  | 41.14                      | 259                  | 322                     | A                       | V               |
|                                     | *    | 2412                 | 99.28               | -                       | -                           | 96.08                     | 27.75                         | 16.6                   | 41.15                      | 259                  | 322                     | P                       | V               |
|                                     | *    | 2412                 | 91.22               | -                       | -                           | 88.02                     | 27.75                         | 16.6                   | 41.15                      | 259                  | 322                     | A                       | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 06<br>2437MHz |      | 2389.04              | 53.54               | -20.46                  | 74                          | 50.3                      | 27.82                         | 16.56                  | 41.14                      | 125                  | 209                     | P                       | H               |
|                                     |      | 2389.36              | 38.66               | -15.34                  | 54                          | 35.42                     | 27.82                         | 16.56                  | 41.14                      | 125                  | 209                     | A                       | H               |
|                                     | *    | 2437                 | 111.05              | -                       | -                           | 107.91                    | 27.65                         | 16.64                  | 41.15                      | 125                  | 209                     | P                       | H               |
|                                     | *    | 2437                 | 103.79              | -                       | -                           | 100.65                    | 27.65                         | 16.64                  | 41.15                      | 125                  | 209                     | A                       | H               |
|                                     |      | 2484.07              | 50.69               | -23.31                  | 74                          | 47.55                     | 27.6                          | 16.71                  | 41.17                      | 125                  | 209                     | P                       | H               |
|                                     |      | 2483.62              | 38.95               | -15.05                  | 54                          | 35.81                     | 27.6                          | 16.71                  | 41.17                      | 125                  | 209                     | A                       | H               |
|                                     |      | 2364.88              | 48.79               | -25.21                  | 74                          | 45.53                     | 27.87                         | 16.52                  | 41.13                      | 400                  | 298                     | P                       | V               |
|                                     |      | 2367.76              | 38.44               | -15.56                  | 54                          | 35.19                     | 27.86                         | 16.53                  | 41.14                      | 400                  | 298                     | A                       | V               |
|                                     | *    | 2437                 | 105.17              | -                       | -                           | 102.03                    | 27.65                         | 16.64                  | 41.15                      | 400                  | 298                     | P                       | V               |
|                                     | *    | 2437                 | 96.62               | -                       | -                           | 93.48                     | 27.65                         | 16.64                  | 41.15                      | 400                  | 298                     | A                       | V               |
|                                     |      | 2483.53              | 50.01               | -23.99                  | 74                          | 46.87                     | 27.6                          | 16.71                  | 41.17                      | 400                  | 298                     | P                       | V               |
|                                     |      | 2484.88              | 38.75               | -15.25                  | 54                          | 35.61                     | 27.6                          | 16.71                  | 41.17                      | 400                  | 298                     | A                       | V               |



|                                               |                                                                                             |         |        |        |    |        |      |       |       |     |     |   |   |
|-----------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|------|-------|-------|-----|-----|---|---|
| <b>802.11n<br/>HT20<br/>CH 11<br/>2462MHz</b> | *                                                                                           | 2462    | 110.81 | -      | -  | 107.69 | 27.6 | 16.68 | 41.16 | 110 | 219 | P | H |
|                                               | *                                                                                           | 2462    | 102.46 | -      | -  | 99.34  | 27.6 | 16.68 | 41.16 | 110 | 219 | A | H |
|                                               |                                                                                             | 2484.84 | 63.11  | -10.89 | 74 | 59.97  | 27.6 | 16.71 | 41.17 | 110 | 219 | P | H |
|                                               |                                                                                             | 2483.56 | 51.13  | -2.87  | 54 | 47.99  | 27.6 | 16.71 | 41.17 | 110 | 219 | A | H |
|                                               |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | H |
|                                               |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | H |
|                                               | *                                                                                           | 2462    | 106.37 | -      | -  | 103.25 | 27.6 | 16.68 | 41.16 | 400 | 303 | P | V |
|                                               | *                                                                                           | 2462    | 98.61  | -      | -  | 95.49  | 27.6 | 16.68 | 41.16 | 400 | 303 | A | V |
|                                               |                                                                                             | 2483.6  | 55.61  | -18.39 | 74 | 52.47  | 27.6 | 16.71 | 41.17 | 400 | 303 | P | V |
|                                               |                                                                                             | 2483.56 | 44.67  | -9.33  | 54 | 41.53  | 27.6 | 16.71 | 41.17 | 400 | 303 | A | V |
|                                               |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | V |
|                                               |                                                                                             |         |        |        |    |        |      |       |       |     |     |   | V |
| <b>Remark</b>                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |      |       |       |     |     |   |   |



| WIFI<br>Ant.<br>4+3                 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 12<br>2467MHz | *                                                                                           | 2467                 | 108.52              | -                       | -                           | 105.4                     | 27.6                          | 16.68                  | 41.16                      | 100                  | 214                     | P                       | H               |
|                                     | *                                                                                           | 2467                 | 100.63              | -                       | -                           | 97.51                     | 27.6                          | 16.68                  | 41.16                      | 100                  | 214                     | A                       | H               |
|                                     |                                                                                             | 2485.04              | 62.86               | -11.14                  | 74                          | 59.72                     | 27.6                          | 16.71                  | 41.17                      | 100                  | 214                     | P                       | H               |
|                                     |                                                                                             | 2485.04              | 51.57               | -2.43                   | 54                          | 48.43                     | 27.6                          | 16.71                  | 41.17                      | 100                  | 214                     | A                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     | *                                                                                           | 2467                 | 102.16              | -                       | -                           | 99.04                     | 27.6                          | 16.68                  | 41.16                      | 244                  | 316                     | P                       | V               |
|                                     | *                                                                                           | 2467                 | 93.98               | -                       | -                           | 90.86                     | 27.6                          | 16.68                  | 41.16                      | 244                  | 316                     | A                       | V               |
|                                     |                                                                                             | 2483.6               | 50.17               | -23.83                  | 74                          | 47.03                     | 27.6                          | 16.71                  | 41.17                      | 244                  | 316                     | P                       | V               |
|                                     |                                                                                             | 2484.4               | 40.68               | -13.32                  | 54                          | 37.54                     | 27.6                          | 16.71                  | 41.17                      | 244                  | 316                     | A                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 13<br>2472MHz | *                                                                                           | 2472                 | 107.35              | -                       | -                           | 104.22                    | 27.6                          | 16.69                  | 41.16                      | 100                  | 214                     | P                       | H               |
|                                     | *                                                                                           | 2472                 | 99.23               | -                       | -                           | 96.1                      | 27.6                          | 16.69                  | 41.16                      | 100                  | 214                     | A                       | H               |
|                                     |                                                                                             | 2486.12              | 62.2                | -11.8                   | 74                          | 59.06                     | 27.6                          | 16.71                  | 41.17                      | 100                  | 214                     | P                       | H               |
|                                     |                                                                                             | 2483.6               | 51.06               | -2.94                   | 54                          | 47.92                     | 27.6                          | 16.71                  | 41.17                      | 100                  | 214                     | A                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     | *                                                                                           | 2472                 | 103.87              | -                       | -                           | 100.74                    | 27.6                          | 16.69                  | 41.16                      | 400                  | 297                     | P                       | V               |
|                                     | *                                                                                           | 2472                 | 95.6                | -                       | -                           | 92.47                     | 27.6                          | 16.69                  | 41.16                      | 400                  | 297                     | A                       | V               |
|                                     |                                                                                             | 2483.6               | 52.66               | -21.34                  | 74                          | 49.52                     | 27.6                          | 16.71                  | 41.17                      | 400                  | 297                     | P                       | V               |
|                                     |                                                                                             | 2483.52              | 43.89               | -10.11                  | 54                          | 40.75                     | 27.6                          | 16.71                  | 41.17                      | 400                  | 297                     | A                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>4+3                           | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11n<br/>HT20<br/>CH 01<br/>2412MHz</b> |      | 4824                 | 41.35               | -32.65                  | 74                          | 58.76                     | 31.3                          | 10.15                  | 58.86                      | -                    | -                       | P                       | H               |
|                                               |      | 10890                | 51.34               | -22.66                  | 74                          | 57.14                     | 40.38                         | 14.7                   | 60.88                      | -                    | -                       | P                       | H               |
|                                               |      | 10890                | 41.33               | -12.67                  | 54                          | 47.13                     | 40.38                         | 14.7                   | 60.88                      | -                    | -                       | A                       | H               |
|                                               |      | 14490                | 50.68               | -23.32                  | 74                          | 55.62                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | P                       | H               |
|                                               |      | 14490                | 40.67               | -13.33                  | 54                          | 45.61                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | A                       | H               |
|                                               |      | 18000                | 59.02               | -14.98                  | 74                          | 48.91                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | H               |
|                                               |      | 18000                | 49.01               | -4.99                   | 54                          | 38.9                      | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | H               |
|                                               |      |                      |                     |                         |                             |                           |                               |                        |                            | -                    | -                       |                         | H               |
|                                               |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                               |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                               |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                               |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                               |      | 4824                 | 40.16               | -33.84                  | 74                          | 57.57                     | 31.3                          | 10.15                  | 58.86                      | -                    | -                       | P                       | V               |
|                                               |      | 10890                | 52.13               | -21.87                  | 74                          | 57.93                     | 40.38                         | 14.7                   | 60.88                      | -                    | -                       | P                       | V               |
|                                               |      | 10890                | 42.11               | -11.89                  | 54                          | 47.91                     | 40.38                         | 14.7                   | 60.88                      | -                    | -                       | A                       | V               |
|                                               |      | 14475                | 51.28               | -22.72                  | 74                          | 56.28                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | V               |
|                                               |      | 14475                | 41.26               | -12.74                  | 54                          | 46.26                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | V               |
|                                               |      | 17985                | 58.69               | -15.31                  | 74                          | 48.92                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | P                       | V               |
|                                               |      | 17985                | 48.73               | -5.27                   | 54                          | 38.96                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | A                       | V               |
|                                               |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                               |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                               |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                               |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                               |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>4+3                 | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 06<br>2437MHz |      | 4874                 | 50.66               | -23.34                  | 74                          | 68.06                     | 31.3                          | 10.2                   | 58.9                       | 100                  | 72                      | P                       | H               |
|                                     |      | 4874                 | 39.37               | -14.63                  | 54                          | 56.77                     | 31.3                          | 10.2                   | 58.9                       | 100                  | 72                      | A                       | H               |
|                                     |      | 7311                 | 63.54               | -10.46                  | 74                          | 73.23                     | 36.32                         | 12.42                  | 58.43                      | 100                  | 138                     | P                       | H               |
|                                     |      | 7311                 | 50.23               | -3.77                   | 54                          | 59.92                     | 36.32                         | 12.42                  | 58.43                      | 100                  | 138                     | A                       | H               |
|                                     |      | 10815                | 51.54               | -22.46                  | 74                          | 57.54                     | 40.23                         | 14.66                  | 60.89                      | -                    | -                       | P                       | H               |
|                                     |      | 10815                | 41.53               | -12.47                  | 54                          | 47.53                     | 40.23                         | 14.66                  | 60.89                      | -                    | -                       | A                       | H               |
|                                     |      | 14490                | 51.07               | -22.93                  | 74                          | 56.01                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | P                       | H               |
|                                     |      | 14490                | 41.08               | -12.92                  | 54                          | 46.02                     | 41.37                         | 16.86                  | 63.17                      | -                    | -                       | A                       | H               |
|                                     |      | 18000                | 59.54               | -14.46                  | 74                          | 49.43                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | H               |
|                                     |      | 18000                | 49.53               | -4.47                   | 54                          | 39.42                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |      | 4874                 | 48.23               | -25.77                  | 74                          | 65.63                     | 31.3                          | 10.2                   | 58.9                       | 400                  | 252                     | P                       | V               |
|                                     |      | 4874                 | 35.97               | -18.03                  | 54                          | 53.37                     | 31.3                          | 10.2                   | 58.9                       | 400                  | 252                     | A                       | V               |
|                                     |      | 7311                 | 60.8                | -13.2                   | 74                          | 70.49                     | 36.32                         | 12.42                  | 58.43                      | 100                  | 264                     | P                       | V               |
|                                     |      | 7311                 | 48.67               | -5.33                   | 54                          | 58.36                     | 36.32                         | 12.42                  | 58.43                      | 100                  | 264                     | A                       | V               |
|                                     |      | 10800                | 51.2                | -22.8                   | 74                          | 57.24                     | 40.2                          | 14.65                  | 60.89                      | -                    | -                       | P                       | V               |
|                                     |      | 10800                | 41.19               | -12.81                  | 54                          | 47.23                     | 40.2                          | 14.65                  | 60.89                      | -                    | -                       | A                       | V               |
|                                     |      | 14475                | 51.88               | -22.12                  | 74                          | 56.88                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | V               |
|                                     |      | 14475                | 41.87               | -12.13                  | 54                          | 46.87                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | V               |
|                                     |      | 17985                | 59.4                | -14.6                   | 74                          | 49.63                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | P                       | V               |
|                                     |      | 17985                | 49.38               | -4.62                   | 54                          | 39.61                     | 48.1                          | 18.94                  | 57.27                      | -                    | -                       | A                       | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>4+3                 | Note                                                                                                                                    | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 11<br>2462MHz |                                                                                                                                         | 4924                 | 42.11               | -31.89                  | 74                          | 59.41                     | 31.4                          | 10.25                  | 58.95                      | -                    | -                       | P                       | H               |
|                                     |                                                                                                                                         | 7386                 | 47.52               | -26.48                  | 74                          | 57.11                     | 36.26                         | 12.44                  | 58.29                      | -                    | -                       | P                       | H               |
|                                     |                                                                                                                                         | 10875                | 51.3                | -22.7                   | 74                          | 57.14                     | 40.35                         | 14.69                  | 60.88                      | -                    | -                       | P                       | H               |
|                                     |                                                                                                                                         | 10875                | 41.33               | -12.67                  | 54                          | 47.17                     | 40.35                         | 14.69                  | 60.88                      | -                    | -                       | A                       | H               |
|                                     |                                                                                                                                         | 14475                | 50.94               | -23.06                  | 74                          | 55.94                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | H               |
|                                     |                                                                                                                                         | 14475                | 40.93               | -13.07                  | 54                          | 45.93                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | H               |
|                                     |                                                                                                                                         | 18000                | 58.92               | -15.08                  | 74                          | 48.81                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | H               |
|                                     |                                                                                                                                         | 18000                | 48.93               | -5.07                   | 54                          | 38.82                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | H               |
|                                     |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                                                                         | 4924                 | 41.48               | -32.52                  | 74                          | 58.78                     | 31.4                          | 10.25                  | 58.95                      | -                    | -                       | P                       | V               |
|                                     |                                                                                                                                         | 7386                 | 46.76               | -27.24                  | 74                          | 56.35                     | 36.26                         | 12.44                  | 58.29                      | -                    | -                       | P                       | V               |
|                                     |                                                                                                                                         | 10650                | 52.31               | -21.69                  | 74                          | 58.84                     | 39.8                          | 14.58                  | 60.91                      | -                    | -                       | P                       | V               |
|                                     |                                                                                                                                         | 10650                | 42.3                | -11.7                   | 54                          | 48.83                     | 39.8                          | 14.58                  | 60.91                      | -                    | -                       | A                       | V               |
|                                     |                                                                                                                                         | 14475                | 50.77               | -23.23                  | 74                          | 55.77                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | V               |
|                                     |                                                                                                                                         | 14475                | 40.75               | -13.25                  | 54                          | 45.75                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | V               |
|                                     |                                                                                                                                         | 18000                | 59.04               | -14.96                  | 74                          | 48.93                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | V               |
|                                     |                                                                                                                                         | 18000                | 49.03               | -4.97                   | 54                          | 38.92                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | V               |
|                                     |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| <b>Remark</b>                       | 1. No other spurious found.                                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                     | 2. All results are PASS against Peak and Average limit line.                                                                            |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                     | 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                     | 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.                                    |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



| WIFI<br>Ant.<br>4+3                 | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 12<br>2467MHz |      | 4934                 | 40.52               | -33.48                  | 74                          | 57.81                     | 31.4                          | 10.26                  | 58.95                      | -                    | -                       | P                       | H               |
|                                     |      | 7401                 | 45.1                | -28.9                   | 74                          | 54.72                     | 36.2                          | 12.45                  | 58.27                      | -                    | -                       | P                       | H               |
|                                     |      | 10890                | 51.85               | -22.15                  | 74                          | 57.65                     | 40.38                         | 14.7                   | 60.88                      | -                    | -                       | P                       | H               |
|                                     |      | 10890                | 41.57               | -12.43                  | 54                          | 47.37                     | 40.38                         | 14.7                   | 60.88                      | -                    | -                       | A                       | H               |
|                                     |      | 14475                | 50.76               | -23.24                  | 74                          | 55.76                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | H               |
|                                     |      | 14475                | 40.74               | -13.26                  | 54                          | 45.74                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | H               |
|                                     |      | 18000                | 60.03               | -13.97                  | 74                          | 49.92                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | H               |
|                                     |      | 18000                | 50.02               | -3.98                   | 54                          | 39.91                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |      | 4934                 | 40.74               | -33.26                  | 74                          | 58.03                     | 31.4                          | 10.26                  | 58.95                      | -                    | -                       | P                       | V               |
|                                     |      | 7401                 | 44.88               | -29.12                  | 74                          | 54.5                      | 36.2                          | 12.45                  | 58.27                      | -                    | -                       | P                       | V               |
|                                     |      | 10965                | 51.22               | -22.78                  | 74                          | 56.81                     | 40.53                         | 14.74                  | 60.86                      | -                    | -                       | P                       | V               |
|                                     |      | 10965                | 41.2                | -12.8                   | 54                          | 46.79                     | 40.53                         | 14.74                  | 60.86                      | -                    | -                       | A                       | V               |
|                                     |      | 14475                | 50.68               | -23.32                  | 74                          | 55.68                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | V               |
|                                     |      | 14475                | 40.62               | -13.38                  | 54                          | 45.62                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | V               |
|                                     |      | 18000                | 59.24               | -14.76                  | 74                          | 49.13                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | V               |
|                                     |      | 18000                | 49.23               | -4.77                   | 54                          | 39.12                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>4+3                           | Note                                                                                                                                    | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11n<br/>HT20<br/>CH 13<br/>2472MHz</b> |                                                                                                                                         | 4944                 | 40.15               | -33.85                  | 74                          | 57.45                     | 31.4                          | 10.26                  | 58.96                      | -                    | -                       | P                       | H               |
|                                               |                                                                                                                                         | 7416                 | 46.31               | -27.69                  | 74                          | 55.83                     | 36.26                         | 12.46                  | 58.24                      | -                    | -                       | P                       | H               |
|                                               |                                                                                                                                         | 10935                | 51.7                | -22.3                   | 74                          | 57.38                     | 40.47                         | 14.72                  | 60.87                      | -                    | -                       | P                       | H               |
|                                               |                                                                                                                                         | 10935                | 41.68               | -12.32                  | 54                          | 47.36                     | 40.47                         | 14.72                  | 60.87                      | -                    | -                       | A                       | H               |
|                                               |                                                                                                                                         | 14475                | 51.48               | -22.52                  | 74                          | 56.48                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | H               |
|                                               |                                                                                                                                         | 14475                | 41.43               | -12.57                  | 54                          | 46.43                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | H               |
|                                               |                                                                                                                                         | 18000                | 58.72               | -15.28                  | 74                          | 48.61                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | H               |
|                                               |                                                                                                                                         | 18000                | 48.78               | -5.22                   | 54                          | 38.67                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | H               |
|                                               |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                               |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                               |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                               |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                               |                                                                                                                                         | 4944                 | 40.63               | -33.37                  | 74                          | 57.93                     | 31.4                          | 10.26                  | 58.96                      | -                    | -                       | P                       | V               |
|                                               |                                                                                                                                         | 7416                 | 45.76               | -28.24                  | 74                          | 55.28                     | 36.26                         | 12.46                  | 58.24                      | -                    | -                       | P                       | V               |
|                                               |                                                                                                                                         | 10830                | 51.43               | -22.57                  | 74                          | 57.38                     | 40.26                         | 14.67                  | 60.88                      | -                    | -                       | P                       | V               |
|                                               |                                                                                                                                         | 10830                | 41.41               | -12.59                  | 54                          | 47.36                     | 40.26                         | 14.67                  | 60.88                      | -                    | -                       | A                       | V               |
|                                               |                                                                                                                                         | 14475                | 50.56               | -23.44                  | 74                          | 55.56                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | P                       | V               |
|                                               |                                                                                                                                         | 14475                | 40.54               | -13.46                  | 54                          | 45.54                     | 41.33                         | 16.85                  | 63.18                      | -                    | -                       | A                       | V               |
|                                               |                                                                                                                                         | 18000                | 60.24               | -13.76                  | 74                          | 50.13                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | P                       | V               |
|                                               |                                                                                                                                         | 18000                | 50.22               | -3.78                   | 54                          | 40.11                     | 48.4                          | 18.95                  | 57.24                      | -                    | -                       | A                       | V               |
|                                               |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                               |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                               |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                               |                                                                                                                                         |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| <b>Remark</b>                                 | 1. No other spurious found.                                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                               | 2. All results are PASS against Peak and Average limit line.                                                                            |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                               | 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
|                                               | 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.                                    |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |

## Emission above 18GHz

## 2.4GHz WIFI 802.11g (SHF)

[illegible]

## Emission below 1GHz

## 2.4GHz WIFI 802.11g (LF)

| WIFI                    | Note                                                                                                                                                                                | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                    |                                                                                                                                                                                     | ( MHz )   | ( dBμV/m ) | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 4+3                     |                                                                                                                                                                                     |           |            | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 2.4GHz<br>802.11g<br>LF |                                                                                                                                                                                     | 30        | 23.04      | -16.96 | 40         | 30.33  | 24.59    | 0.61   | 32.49  | -      | -       | P     | H     |
|                         |                                                                                                                                                                                     | 95.96     | 33.21      | -10.29 | 43.5       | 48.95  | 15.45    | 1.29   | 32.48  | -      | -       | P     | H     |
|                         |                                                                                                                                                                                     | 171.62    | 27.26      | -16.24 | 43.5       | 42.46  | 15.48    | 1.81   | 32.49  | -      | -       | P     | H     |
|                         |                                                                                                                                                                                     | 208.48    | 25.04      | -18.46 | 43.5       | 40.34  | 15.14    | 1.99   | 32.43  | -      | -       | P     | H     |
|                         |                                                                                                                                                                                     | 713.85    | 31.1       | -14.9  | 46         | 33.35  | 26.6     | 3.6    | 32.45  | -      | -       | P     | H     |
|                         |                                                                                                                                                                                     | 935.01    | 32.33      | -13.67 | 46         | 29.65  | 29.86    | 4.22   | 31.4   | -      | -       | P     | H     |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         |       | H     |
|                         |                                                                                                                                                                                     | 34.85     | 31.04      | -8.96  | 40         | 40.7   | 22.21    | 0.67   | 32.54  | -      | -       | P     | V     |
|                         |                                                                                                                                                                                     | 65.89     | 26.14      | -13.86 | 40         | 45.67  | 11.92    | 1.09   | 32.54  | -      | -       | P     | V     |
|                         |                                                                                                                                                                                     | 94.02     | 27.12      | -16.38 | 43.5       | 43.22  | 15.11    | 1.27   | 32.48  | -      | -       | P     | V     |
|                         |                                                                                                                                                                                     | 171.62    | 22.35      | -21.15 | 43.5       | 37.55  | 15.48    | 1.81   | 32.49  | -      | -       | P     | V     |
|                         |                                                                                                                                                                                     | 665.35    | 28.23      | -17.77 | 46         | 30.95  | 26.2     | 3.47   | 32.39  | -      | -       | P     | V     |
|                         |                                                                                                                                                                                     | 913.67    | 32.32      | -13.68 | 46         | 30.51  | 29.2     | 4.15   | 31.54  | -      | -       | P     | V     |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         |       | V     |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         | V     |       |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         | V     |       |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         | V     |       |
|                         |                                                                                                                                                                                     |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark                  | 1. No other spurious found.<br>2. All results are PASS against limit line.<br>3. The emission level is with at least 6 dB margin against limit line, the position is marked as “-”. |           |            |        |            |        |          |        |        |        |         |       |       |



**Note symbol**

|     |                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.                                                                                                                   |
| P/A | <b>Peak</b> or <b>Average</b>                                                                                                                            |
| H/V | <b>Horizontal</b> or <b>Vertical</b>                                                                                                                     |

**A calculation example for radiated spurious emission is shown as below:**

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 4+3     |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =  
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)  
= 55.45 (dBμV/m)
2. Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 55.45(dBμV/m) – 74(dBμV/m)  
= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)  
= 43.54 (dBμV/m)
2. Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 43.54(dBμV/m) – 54(dBμV/m)  
= -10.46(dB)

**Both peak and average measured complies with the limit line, so test result is “PASS”.**



## Appendix D. Radiated Spurious Emission Plots

|                 |                                      |                     |             |
|-----------------|--------------------------------------|---------------------|-------------|
| Test Engineer : | Leo Lee, Mancy Chou and Bigshow Wang | Temperature :       | 22.1~23.1°C |
|                 |                                      | Relative Humidity : | 55.0~60.0%  |

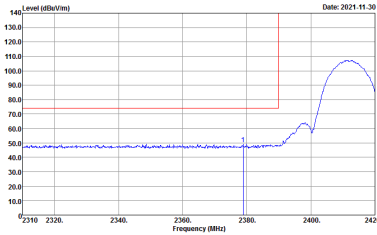
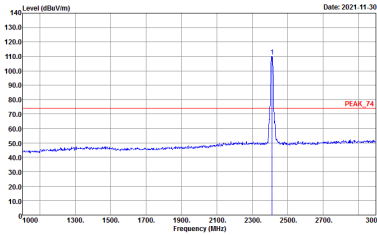
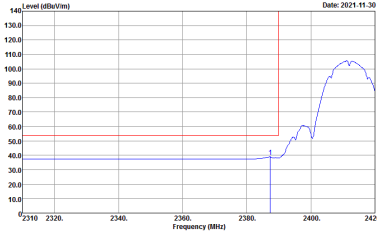
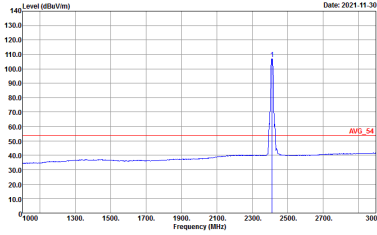
### Note symbol

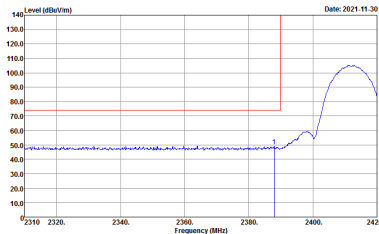
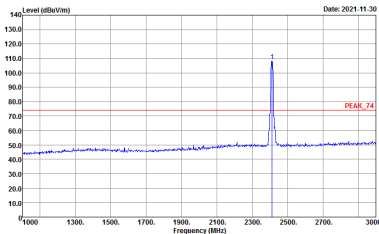
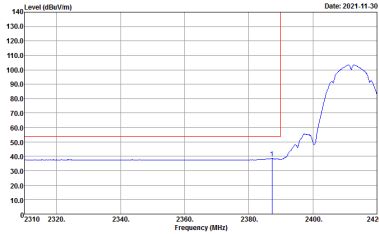
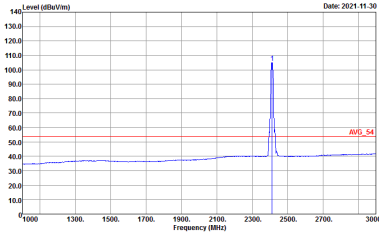
|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11b (Band Edge @ 3m)

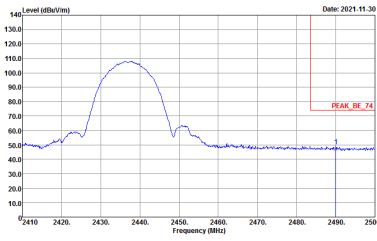
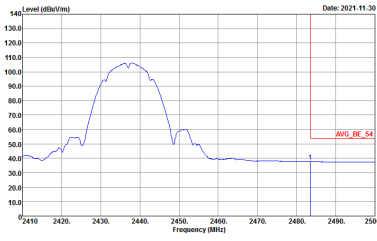
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                  |                                                                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH01 2412MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                     |
| 4    | Horizontal                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH01 2412MHz                                                                                                                                                                                                |                                                                                                                                                                                                                   |
| 4    | Vertical                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                |                                                                                                                                  |
|------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH06 2437MHz - L                                                                                                            |                                                                                                                                  |
| 4    | Horizontal                                                                                                                          | Fundamental                                                                                                                      |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_9C_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     | <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     |

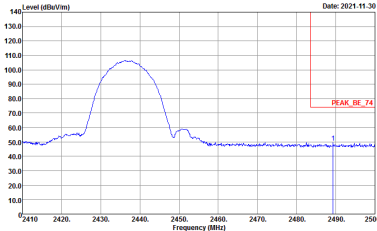
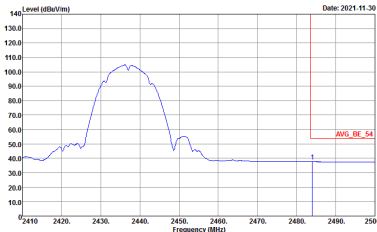


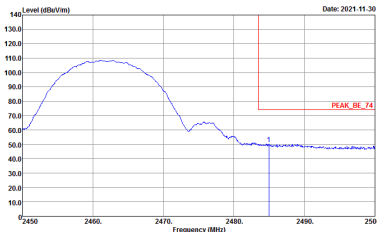
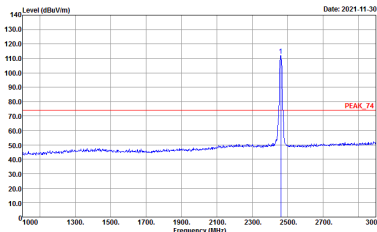
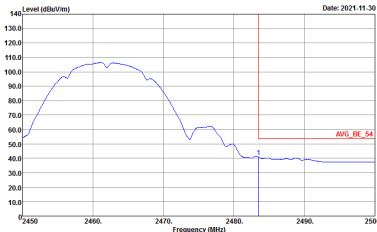
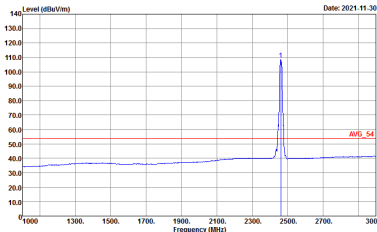
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11b CH06 2437MHz - R                                                                                                                                                                                            |             |
| 4    | Horizontal                                                                                                                                                                                                          | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank  |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   | Left blank  |

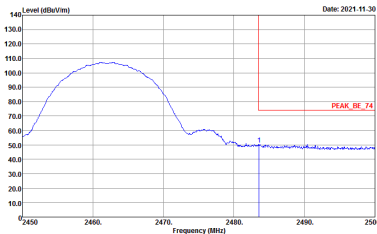
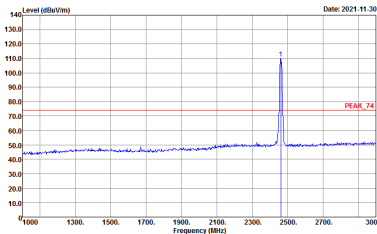
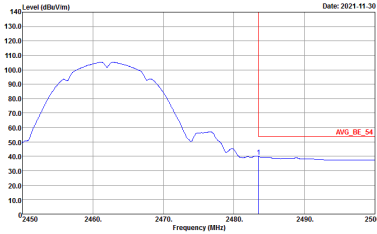
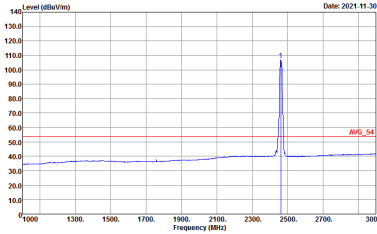


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                              |                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH06 2437MHz - L                                                                                                          |                                                                                                                                |
| 4    | Vertical                                                                                                                          | Fundamental                                                                                                                    |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     | <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     |



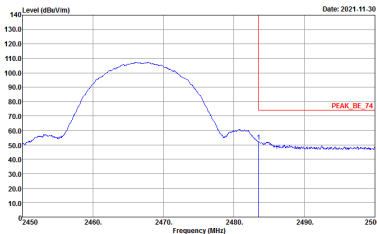
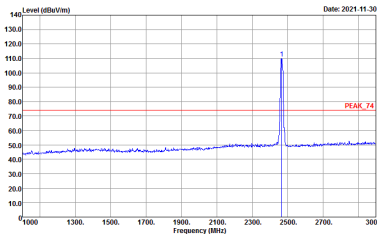
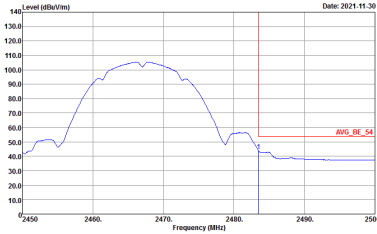
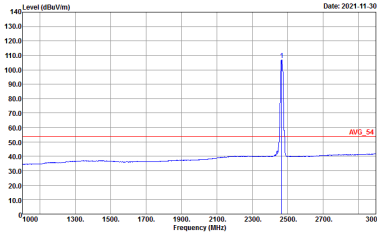
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11b CH06 2437MHz - R                                                                                                                                                                                            |             |
| 4    | Vertical                                                                                                                                                                                                            | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank  |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   | Left blank  |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH11 2462MHz                                                                                                                                                                                                |                                                                                                                                                                                                                   |
| 4    | Horizontal                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                              |                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH11 2462MHz                                                                                                                                                                                              |                                                                                                                                                                                                                 |
| 4    | Vertical                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                     |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |

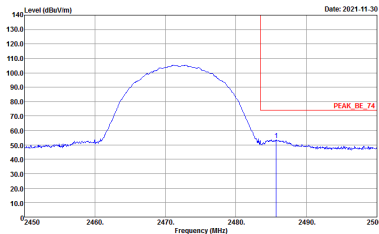
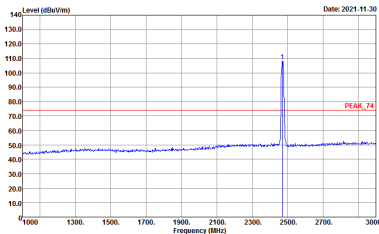
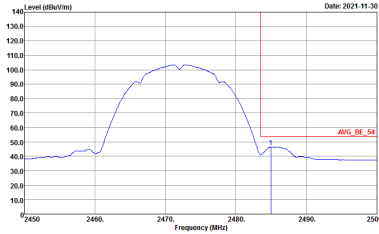
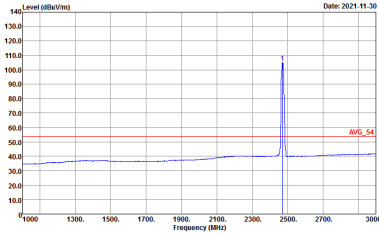


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                              |                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH12 2467MHz                                                                                                              |                                                                                                                                |
| 4    | Horizontal                                                                                                                        | Fundamental                                                                                                                    |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     | <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                              |                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH12 2467MHz                                                                                                                                                                                              |                                                                                                                                                                                                                 |
| 4    | Vertical                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                     |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |
| Avg. |                                                                                                                                                                                                                   |                                                                                                                                                                                                                 |

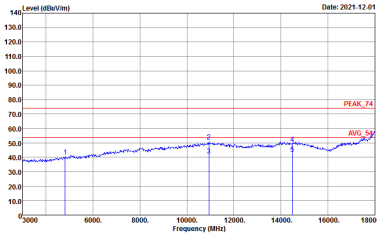
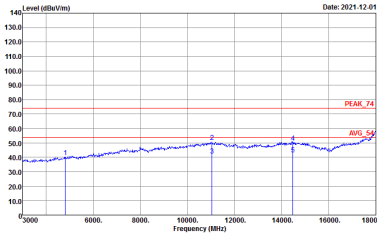


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                |                                                                                                                                  |
|------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH13 2472MHz                                                                                                                |                                                                                                                                  |
| 4    | Horizontal                                                                                                                          | Fundamental                                                                                                                      |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     | <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     |

| WIFI        | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                              |                                                                                                                                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11b CH13 2472MHz                                                                                                                                                                                              |                                                                                                                                                                                                                 |
| 4           | Vertical                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                     |
| <b>Peak</b> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|             |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |
| <b>Avg.</b> |                                                                                                                                                                                                                   |                                                                                                                                                                                                                 |



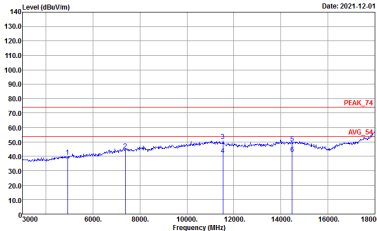
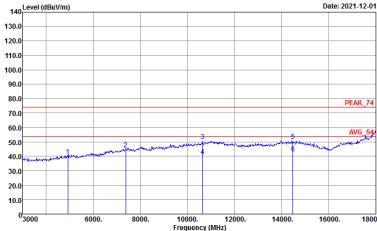
2.4GHz 2400~2483.5MHz  
WIFI 802.11b (Harmonic @ 3m)

| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11b CH01 2412MHz                                                                                                                                                                    |                                                                                                                                                                                        |
| 4            | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>Detector : Peak</p> |
|              |                                                                                                                                                                                         |                                                                                                                                                                                        |



|              |                                                                                                                                                              |                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                          |                                                                                                                                                            |
| ANT          | 802.11b CH06 2437MHz                                                                                                                                         |                                                                                                                                                            |
| 4            | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 HORIZONTAL<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 VERTICAL<br/>Detector : Peak</p></div> |



| WIFI                       | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                        |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                        | 802.11b CH11 2462MHz                                                                                                                                                                    |                                                                                                                                                                                        |
| 4                          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| <b>Peak</b><br><b>Avg.</b> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>Detector : Peak</p> |
|                            |                                                                                                                                                                                         |                                                                                                                                                                                        |



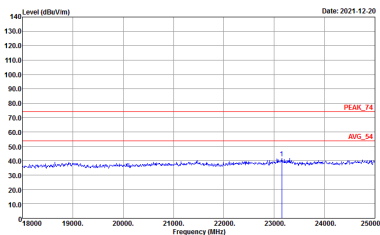
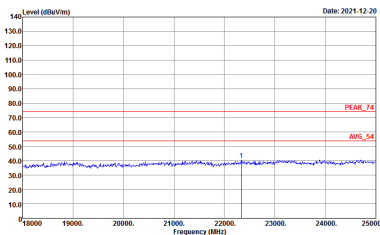
|              |                                                                                                                                                              |                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                          |                                                                                                                                                            |
| ANT          | 802.11b CH12 2467MHz                                                                                                                                         |                                                                                                                                                            |
| 4            | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>Detector : Peak</p></div> |



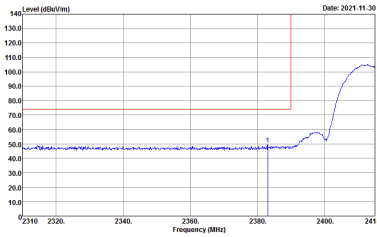
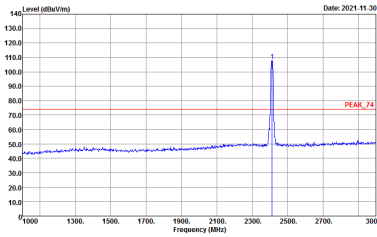
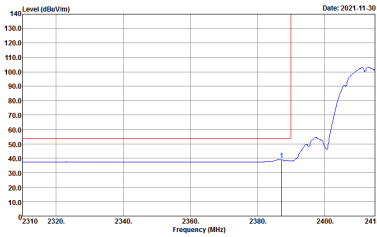
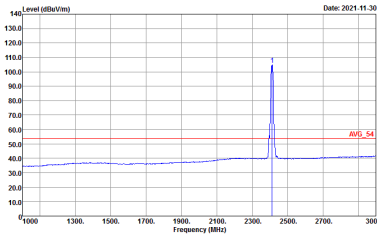
|              |                                                                                                                                                              |                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                          |                                                                                                                                                            |
| ANT          | 802.11b CH13 2472MHz                                                                                                                                         |                                                                                                                                                            |
| 4            | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>Detector : Peak</p></div> |



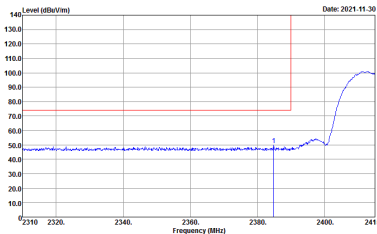
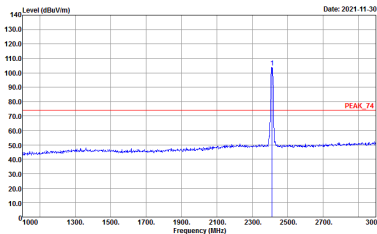
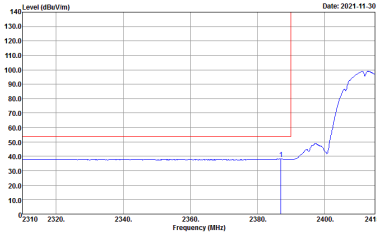
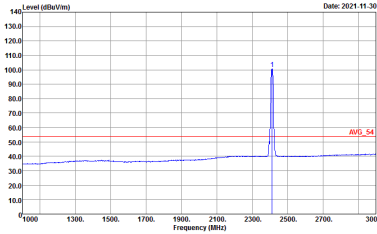
Emission above 18GHz  
2.4GHz WIFI 802.11b (SHF @ 1m)

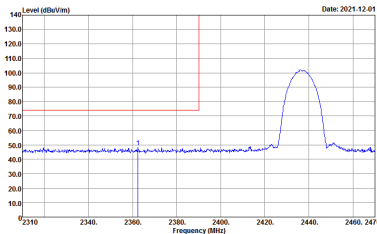
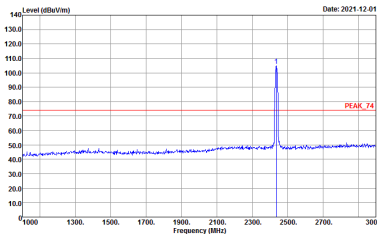
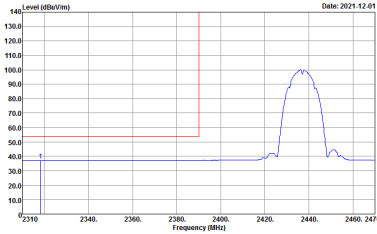
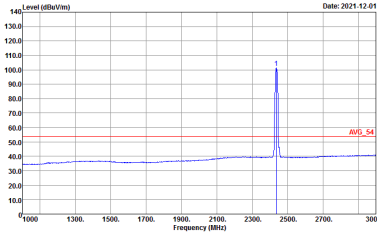
| WIFI         | 2.4GHz 2400~2483.5MHz                                                                                                                                                                    |                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11b SHF                                                                                                                                                                              |                                                                                                                                                                                         |
| 4            | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 1m SHF HORN_0099L_21051 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 1m SHF HORN_0099L_21051 VERTICAL<br/>Detector : Peak</p> |

**2.4GHz 2400~2483.5MHz**
**WIFI 802.11b (Band Edge @ 3m)**

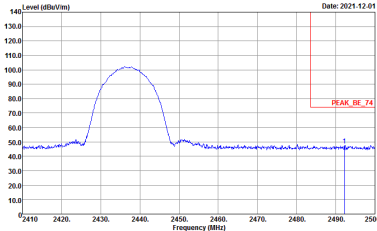
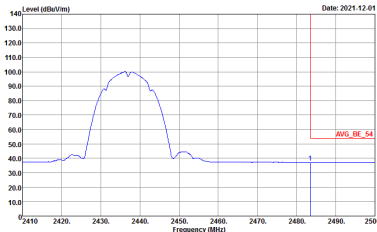
| WIFI        | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11b CH01 2412MHz                                                                                                                                                                                                |                                                                                                                                                                                                                   |
| 3           | Horizontal                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                       |
| <b>Peak</b> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|             |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |
| <b>Avg.</b> |                                                                                                                                                                                                                     |                                                                                                                                                                                                                   |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH01 2412MHz                                                                                                                                                                                                |                                                                                                                                                                                                                   |
| 3    | Vertical                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH06 2437MHz - L                                                                                                                                                                                            |                                                                                                                                                                                                                   |
| 3    | Horizontal                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_9C_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |

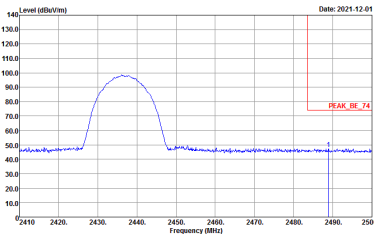
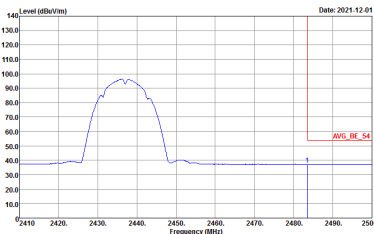


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                  |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11b CH06 2437MHz - R                                                                                                                                                                                              |             |
| 3    | Horizontal                                                                                                                                                                                                            | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank  |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   | Left blank  |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                            |                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH06 2437MHz - L                                                                                                        |                                                                                                                              |
| 3    | Vertical                                                                                                                        | Fundamental                                                                                                                  |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     | <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     |

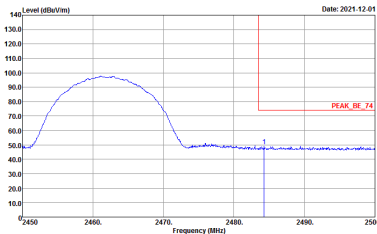
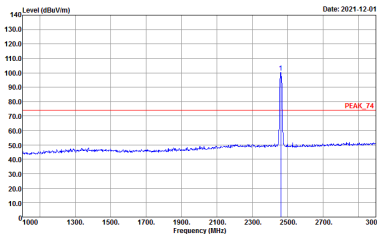
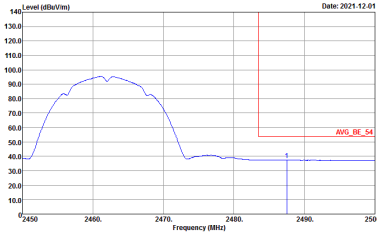
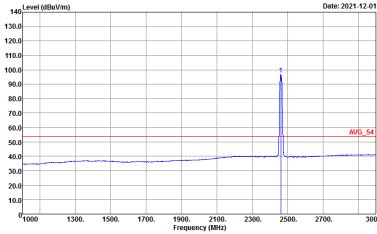


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                          |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11b CH06 2437MHz - R                                                                                                                                                                                                      |             |
| 3    | Vertical                                                                                                                                                                                                                      | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p></div>   | Left blank  |



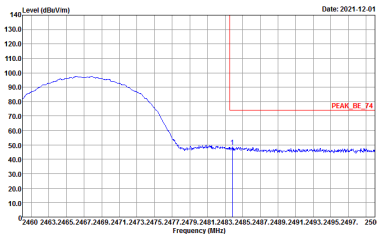
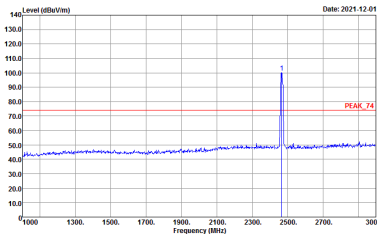
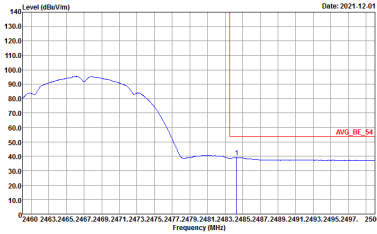
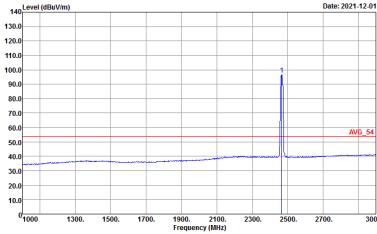
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                |                                                                                                                                  |
|------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH11 2462MHz                                                                                                                |                                                                                                                                  |
| 3    | Horizontal                                                                                                                          | Fundamental                                                                                                                      |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     | <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     |



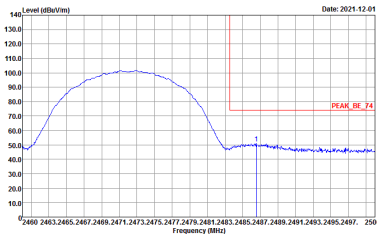
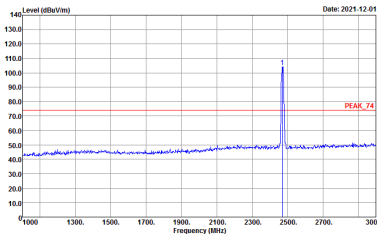
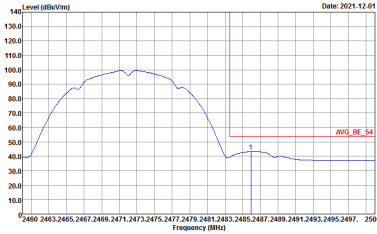
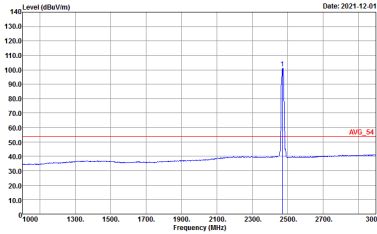
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH11 2462MHz                                                                                                                                                                                                |                                                                                                                                                                                                                   |
| 3    | Vertical                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                  |                                                                                                                                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH12 2467MHz                                                                                                                  |                                                                                                                                    |
| 3    | Horizontal                                                                                                                            | Fundamental                                                                                                                        |
| Peak | <p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     | <p>Site : 03CH15-HY<br/>Condition : : AVG_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                              |                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH12 2467MHz                                                                                                                                                                                              |                                                                                                                                                                                                                 |
| 3    | Vertical                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                     |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |
| Avg. |                                                                                                                                                                                                                   |                                                                                                                                                                                                                 |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                    |                                                                                                                                                                                                                       |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH13 2472MHz                                                                                                                                                                                                    |                                                                                                                                                                                                                       |
| 3    | Horizontal                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CHI5-HY<br/>Condition : : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CHI5-HY<br/>Condition : : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CHI5-HY<br/>Condition : : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |  <p>Site : 03CHI5-HY<br/>Condition : : AVG_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>   |

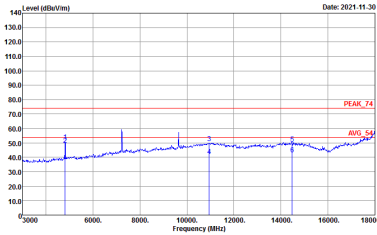
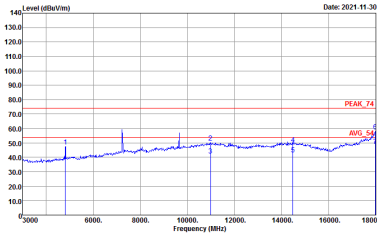


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                |                                                                                                                                  |
|------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH13 2472MHz                                                                                                                |                                                                                                                                  |
| 3    | Vertical                                                                                                                            | Fundamental                                                                                                                      |
| Peak | <p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : : AVG_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     | <p>Site : 03CH15-HY<br/>Condition : : AVG_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>     |



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11b CH01 2412MHz                                                                                                                                                                    |                                                                                                                                                                                        |
| 3            | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>Detector : Peak</p> |
|              |                                                                                                                                                                                         |                                                                                                                                                                                        |



|              |                                                                                                                                                              |                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                          |                                                                                                                                                            |
| ANT          | 802.11b CH06 2437MHz                                                                                                                                         |                                                                                                                                                            |
| 3            | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2021-11-30</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 HORIZONTAL<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2021-11-30</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 VERTICAL<br/>Detector : Peak</p></div> |



|              |                                                                                                                                                              |                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                          |                                                                                                                                                            |
| ANT          | 802.11b CH11 2462MHz                                                                                                                                         |                                                                                                                                                            |
| 3            | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2021-11-30</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 HORIZONTAL<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2021-11-30</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 VERTICAL<br/>Detector : Peak</p></div> |



|              |                                                                                                                                                              |                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                          |                                                                                                                                                            |
| ANT          | 802.11b CH12 2467MHz                                                                                                                                         |                                                                                                                                                            |
| 3            | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2021-11-30</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2021-11-30</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>Detector : Peak</p></div> |



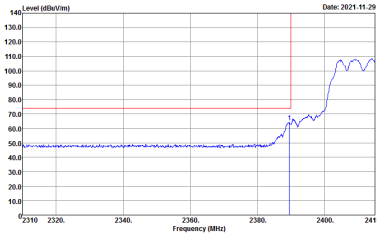
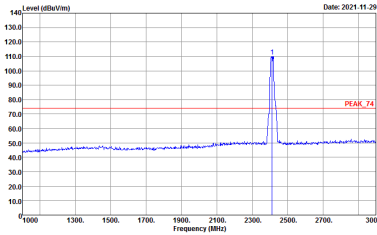
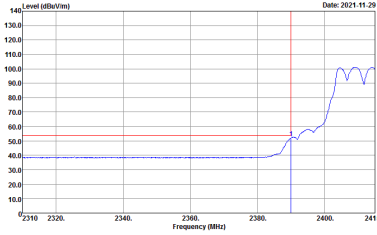
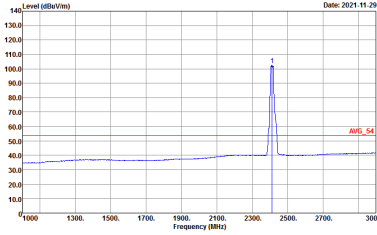
|              |                                                                                                                                                              |                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                          |                                                                                                                                                            |
| ANT          | 802.11b CH13 2472MHz                                                                                                                                         |                                                                                                                                                            |
| 3            | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2021-11-30</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2021-11-30</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>Detector : Peak</p></div> |

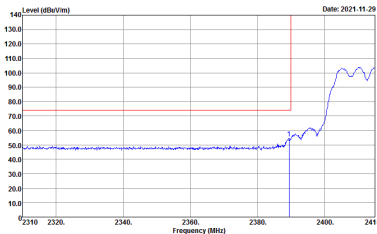
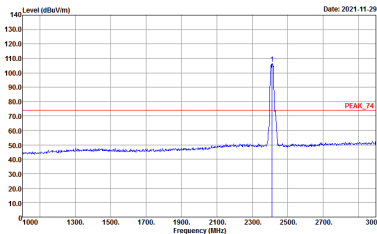
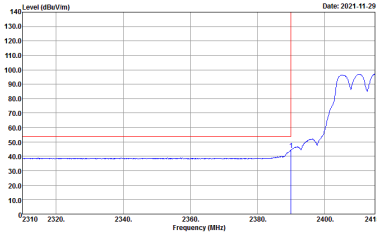
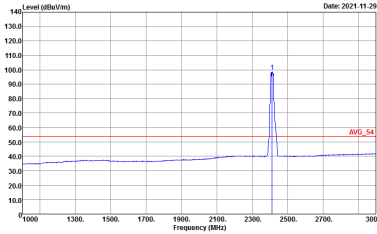


**Emission above 18GHz**  
**2.4GHz WIFI 802.11b (SHF @ 1m)**

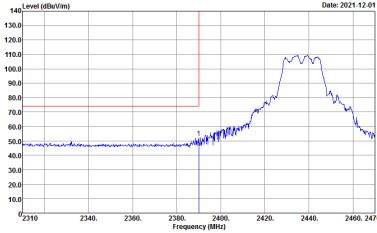
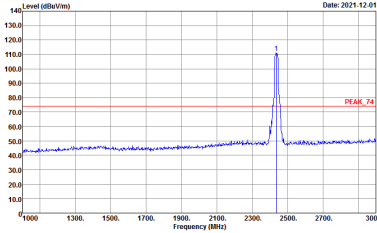
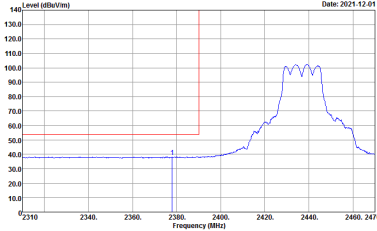
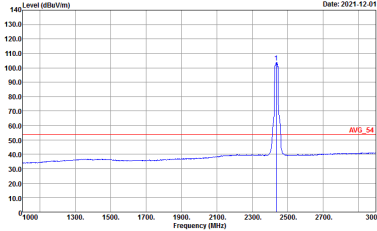
| WIFI                       | 2.4GHz 2400~2483.5MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                        | 802.11b SHF                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3                          | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Peak</b><br><b>Avg.</b> | <p>Horizontal Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) from 18000 to 25000 MHz. The plot shows a noisy baseline around 30-40 dBuV/m. Two horizontal red lines are present: one at approximately 75 dBuV/m labeled 'PEAK_74' and another at approximately 55 dBuV/m labeled 'AVG_54'. A blue vertical line is at 2312 MHz. The date is 2021-12-18.</p> <p>Site : 03CH16-HY<br/>Condition : PEAK_74 1m SHF HORN_0099L_21051 HORIZONTAL<br/>Detector : Peak</p> | <p>Vertical Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) from 18000 to 25000 MHz. The plot shows a noisy baseline around 30-40 dBuV/m. Two horizontal red lines are present: one at approximately 75 dBuV/m labeled 'PEAK_74' and another at approximately 55 dBuV/m labeled 'AVG_54'. A blue vertical line is at 2312 MHz. The date is 2021-12-18.</p> <p>Site : 03CH16-HY<br/>Condition : PEAK_74 1m SHF HORN_0099L_21051 VERTICAL<br/>Detector : Peak</p> |

**2.4GHz 2400~2483.5MHz**
**WIFI 802.11g (Band Edge @ 3m)**

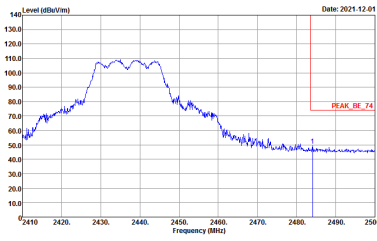
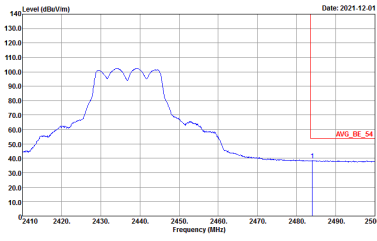
| WIFI        | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11g CH01 2412MHz                                                                                                                                                                                                |                                                                                                                                                                                                                   |
| 4+3         | Horizontal                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                       |
| <b>Peak</b> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|             |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |

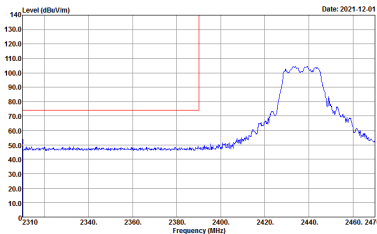
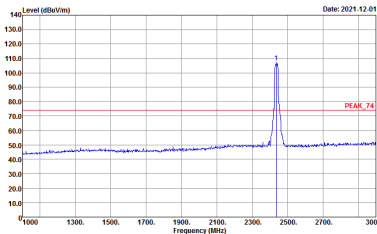
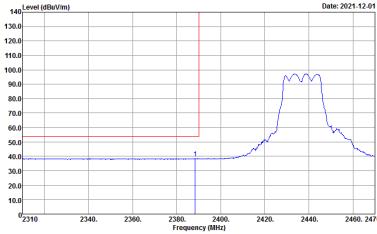
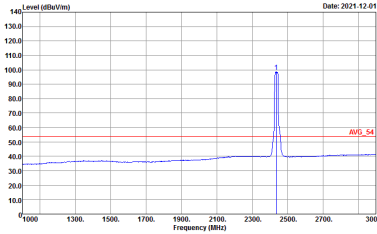
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH01 2412MHz                                                                                                                                                                                                |                                                                                                                                                                                                                   |
| 4+3  | Vertical                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |



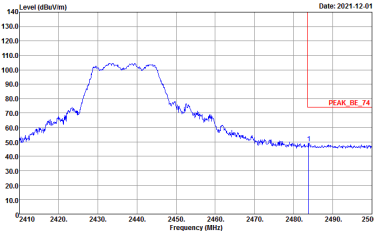
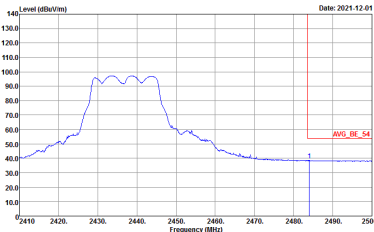
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH06 2437MHz - L                                                                                                                                                                                            |                                                                                                                                                                                                                   |
| 4+3  | Horizontal                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_9C_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_9C_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |

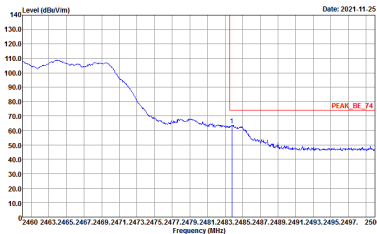
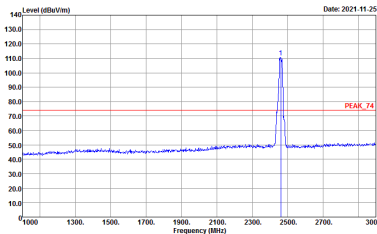
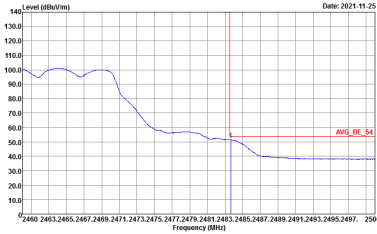
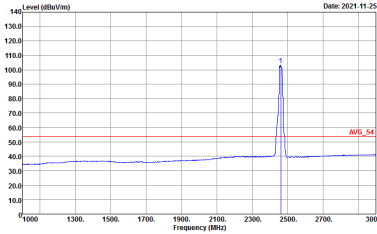


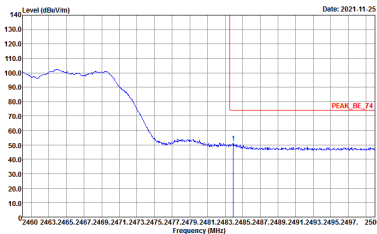
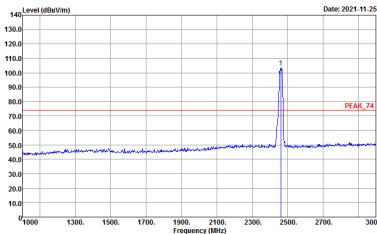
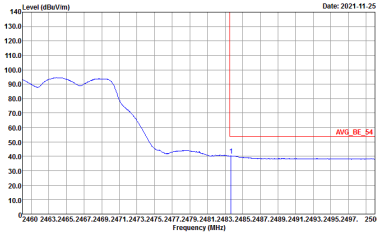
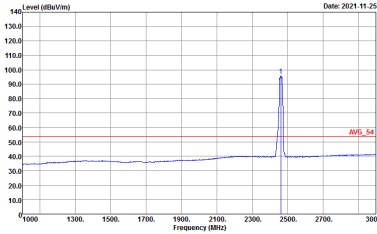
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11g CH06 2437MHz - R                                                                                                                                                                                            |             |
| 4+3  | Horizontal                                                                                                                                                                                                          | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank  |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    | Left blank  |

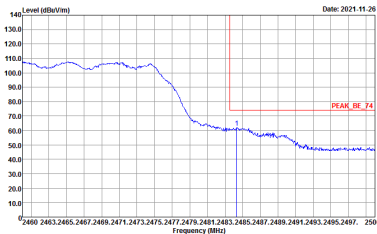
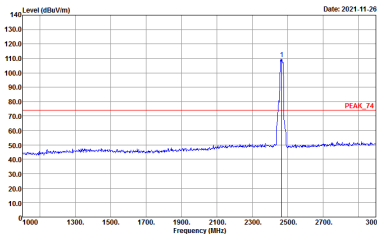
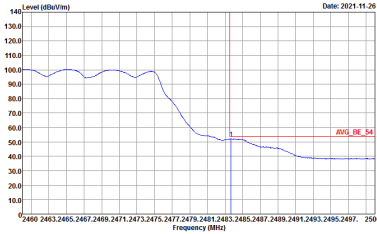
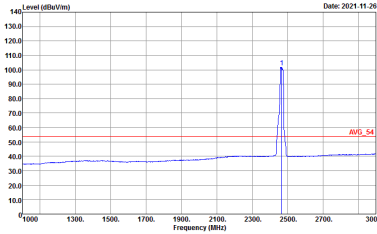
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                              |                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH06 2437MHz - L                                                                                                                                                                                          |                                                                                                                                                                                                                 |
| 4+3  | Vertical                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                     |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |
| Avg. |                                                                                                                                                                                                                   |                                                                                                                                                                                                                 |

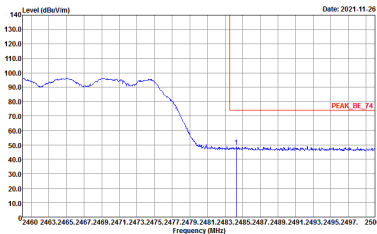
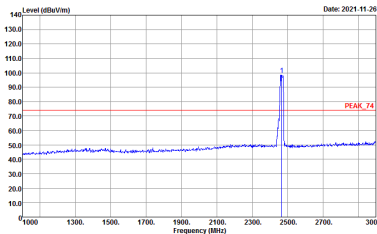
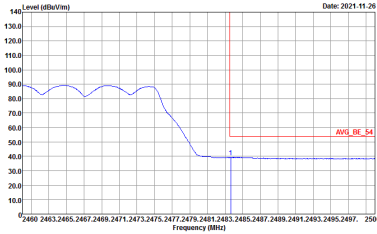
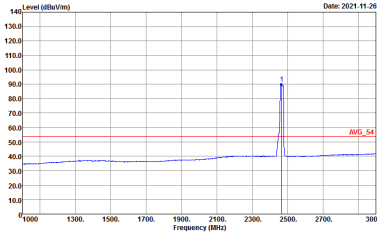


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                          |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11g CH06 2437MHz - R                                                                                                                                                                                                      |             |
| 4+3  | Vertical                                                                                                                                                                                                                      | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p></div> | Left Blank  |
| Avg. | <div><p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p></div>    | Left Blank  |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                    |                                                                                                                                                                                                                       |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH11 2462MHz                                                                                                                                                                                                    |                                                                                                                                                                                                                       |
| 4+3  | Horizontal                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : : AV6_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : : AV6_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |

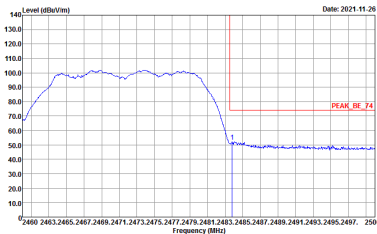
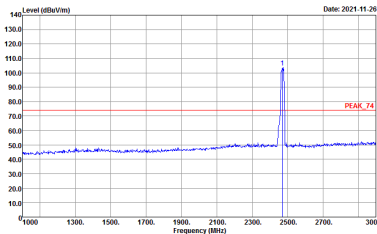
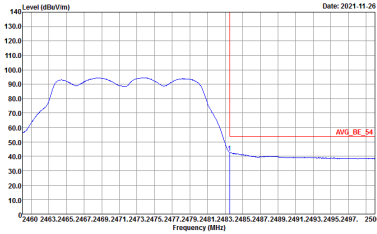
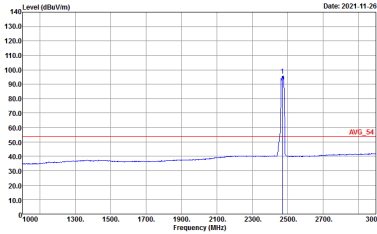
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                  |                                                                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH11 2462MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                     |
| 4+3  | Vertical                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH15-HY<br/>Condition : : AVG_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : : AVG_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |
| Avg. |                                                                                                                                                                                                                       |                                                                                                                                                                                                                     |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                    |                                                                                                                                                                                                                       |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH12 2467MHz                                                                                                                                                                                                    |                                                                                                                                                                                                                       |
| 4+3  | Horizontal                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : : AVG_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |

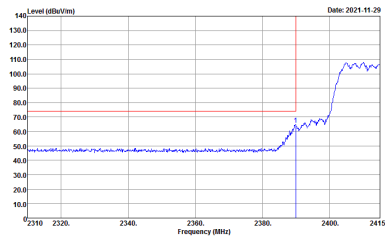
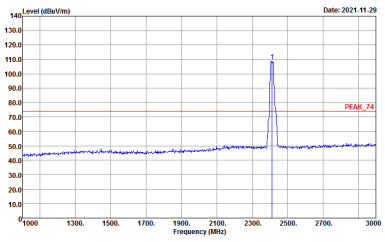
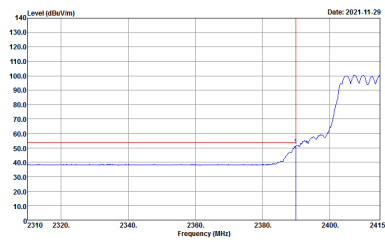
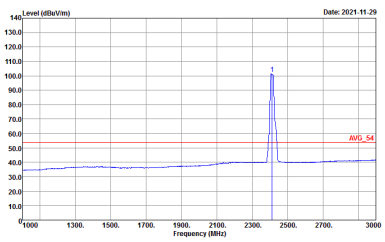
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                  |                                                                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH12 2467MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                     |
| 4+3  | Vertical                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : : AV6_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : : AV6_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |

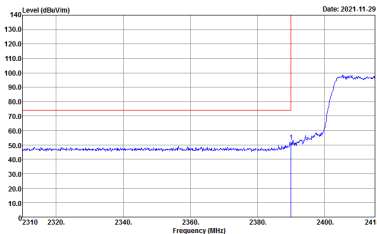
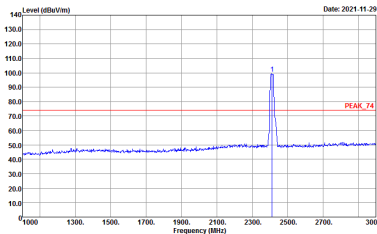
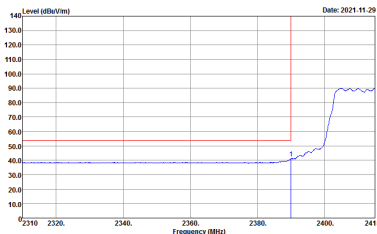
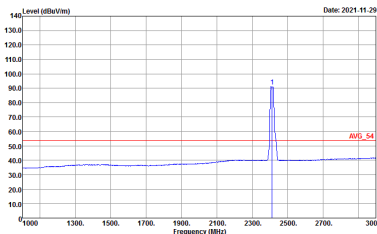


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                              |                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH13 2472MHz                                                                                                              |                                                                                                                                |
| 4+3  | Horizontal                                                                                                                        | Fundamental                                                                                                                    |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>      | <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>      |

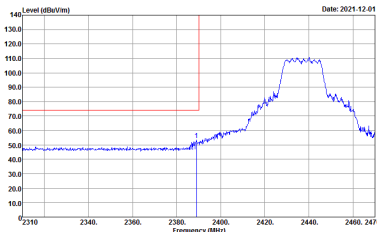
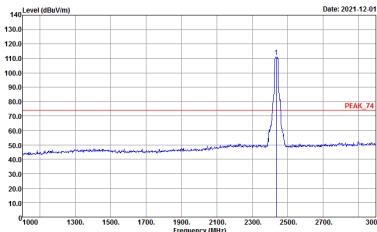
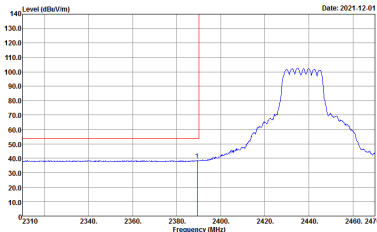
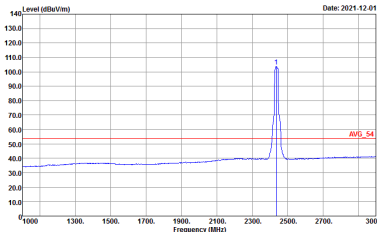
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                  |                                                                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH13 2472MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                     |
| 4+3  | Vertical                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH15-HY<br/>Condition : : AV6_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : : AV6_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |
| Avg. |                                                                                                                                                                                                                       |                                                                                                                                                                                                                     |

**2.4GHz 2400~2483.5MHz**
**WIFI 802.11n HT20 (Band Edge @ 3m)**

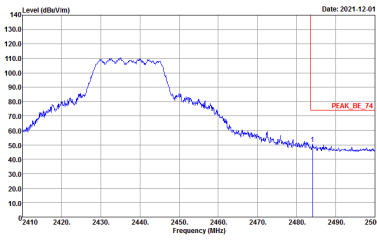
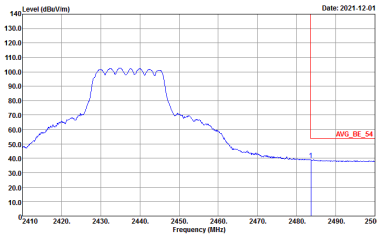
| WIFI        | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                  |                                                                                                                                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11n HT20 CH01 2412MHz                                                                                                                                                                                             |                                                                                                                                                                                                                     |
| 4+3         | Horizontal                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                         |
| <b>Peak</b> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|             |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   |
| <b>Avg.</b> |                                                                                                                                                                                                                       |                                                                                                                                                                                                                     |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH01 2412MHz                                                                                                                                                                                           |                                                                                                                                                                                                                   |
| 4+3  | Vertical                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                  |                                                                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH06 2437MHz - L                                                                                                                                                                                         |                                                                                                                                                                                                                     |
| 4+3  | Horizontal                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_9C_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |

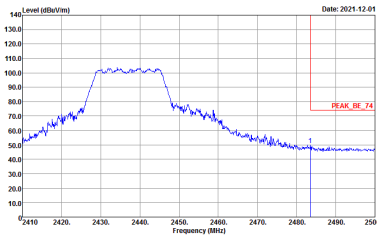
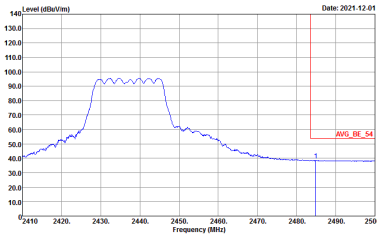


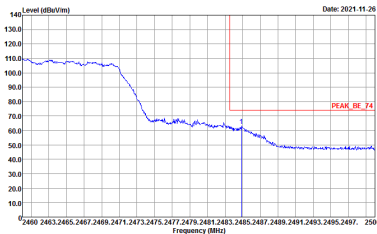
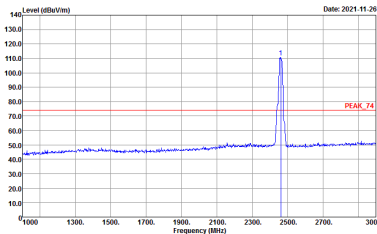
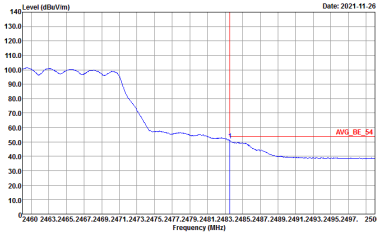
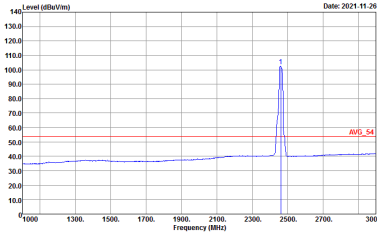
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                        |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH06 2437MHz - R                                                                                                                                                                                                               |             |
| 4+3  | Horizontal                                                                                                                                                                                                                                  | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> <p>Date: 2021-12-01</p> | Left blank  |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p> <p>Date: 2021-12-01</p>    | Left blank  |

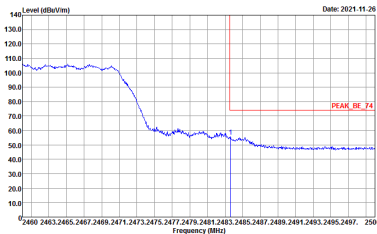
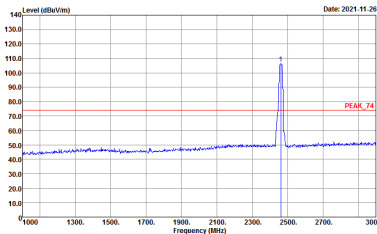
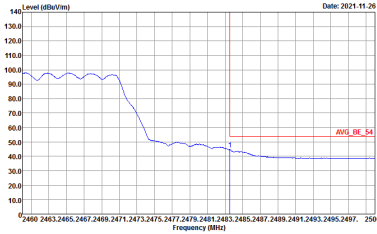
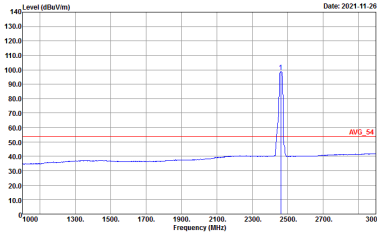


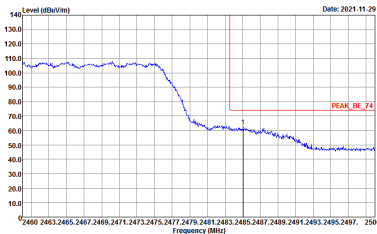
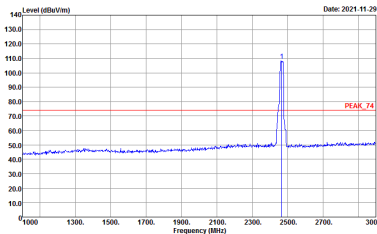
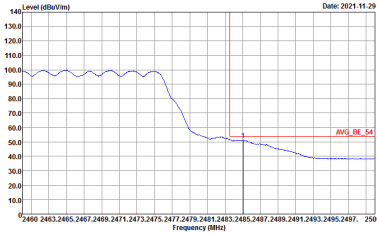
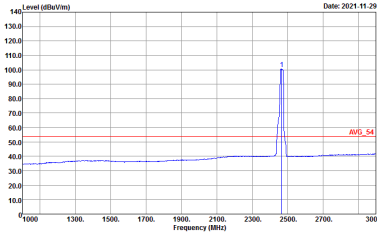
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                              |                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH06 2437MHz - L                                                                                                     |                                                                                                                                |
| 4+3  | Vertical                                                                                                                          | Fundamental                                                                                                                    |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>      | <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>      |

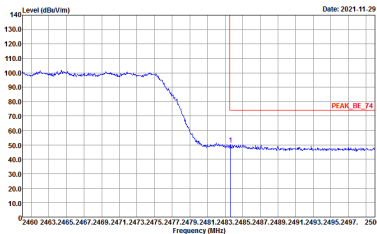
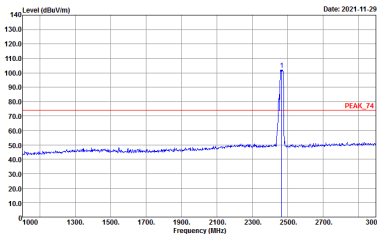
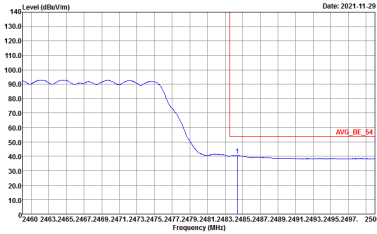
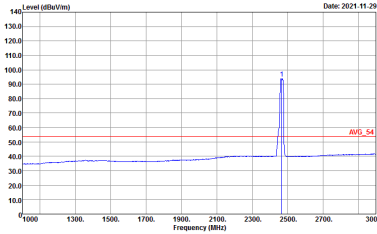


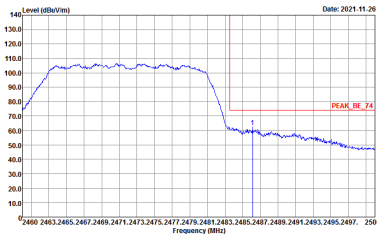
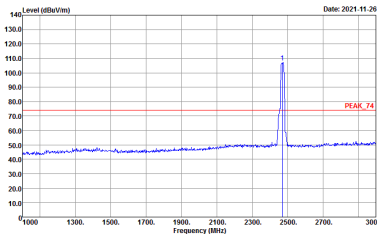
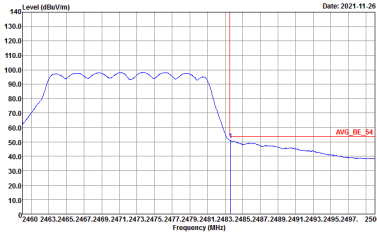
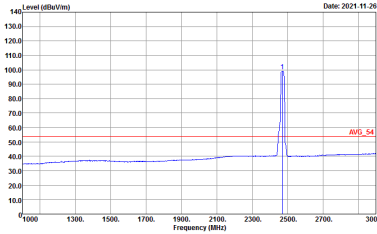
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                  |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH06 2437MHz - R                                                                                                                                                                                         |             |
| 4+3  | Vertical                                                                                                                                                                                                              | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left Blank  |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : : AVG_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    | Left Blank  |

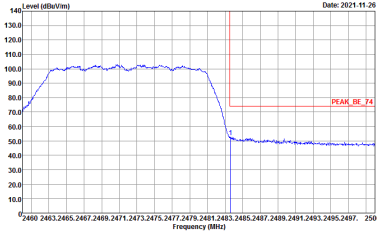
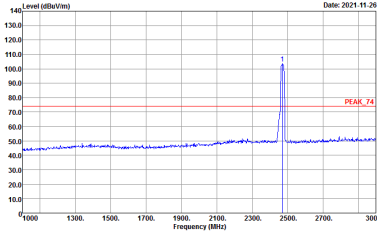
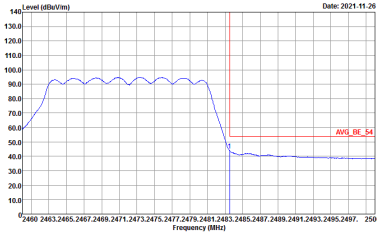
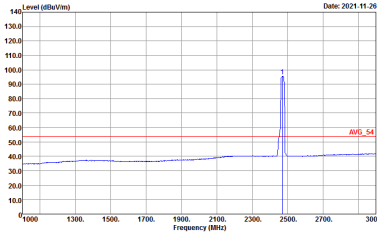
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH11 2462MHz                                                                                                                                                                                           |                                                                                                                                                                                                                   |
| 4+3  | Horizontal                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |

| WIFI | 2.4GHz 2400~2483.5MHz Fundamental @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH11 2462MHz                                                                                                                                                                                             |                                                                                                                                                                                                                     |
| 4+3  | Vertical                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : : AVG_BE_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : : AVG_54 3m 91200_1620_20211025 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH12 2467MHz                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4+3  | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Peak |  <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 2467 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red line marks the peak level at approximately 110.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/> Condition : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/> : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>   |  <p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at 2467 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red line marks the peak level at approximately 110.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/> Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/> : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red line marks the average level at approximately 110.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/> Condition : AV6_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/> : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p> |  <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red line marks the average level at approximately 110.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/> Condition : AV6_54 3m 91200_1620_20211025 HORIZONTAL<br/> : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>     |

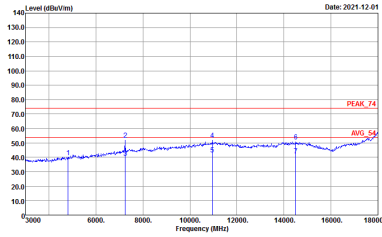
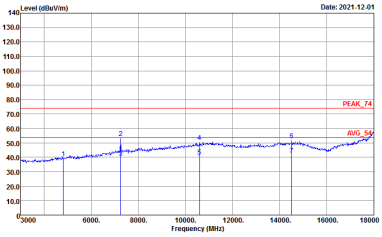
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                              |                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH12 2467MHz                                                                                                                                                                                         |                                                                                                                                                                                                                 |
| 4+3  | Vertical                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                     |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH15-HY<br/>Condition : AV6_BE_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AV6_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |
| Avg. |                                                                                                                                                                                                                   |                                                                                                                                                                                                                 |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                    |                                                                                                                                                                                                                       |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH13 2472MHz                                                                                                                                                                                               |                                                                                                                                                                                                                       |
| 4+3  | Horizontal                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH15-HY<br/>Condition : : AV6_BE_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : : AV6_54 3m 91200_1620_20211025 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |
| Avg. |                                                                                                                                                                                                                         |                                                                                                                                                                                                                       |

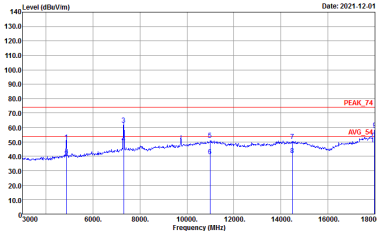
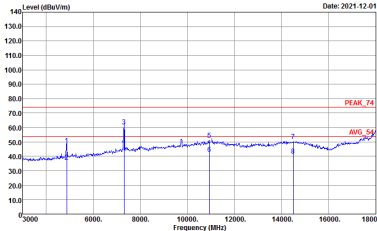
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                              |                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH13 2472MHz                                                                                                                                                                                         |                                                                                                                                                                                                                 |
| 4+3  | Vertical                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                     |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|      |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_1620_20211025 VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |



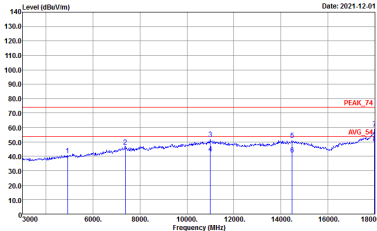
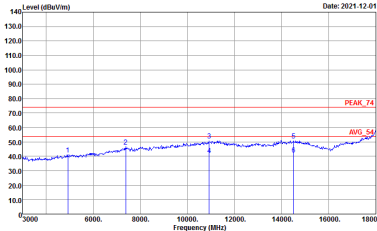
2.4GHz 2400~2483.5MHz  
WIFI 802.11g (Harmonic @ 3m)

| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11g CH01 2412MHz                                                                                                                                                                    |                                                                                                                                                                                        |
| 4+3          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>Detector : Peak</p> |

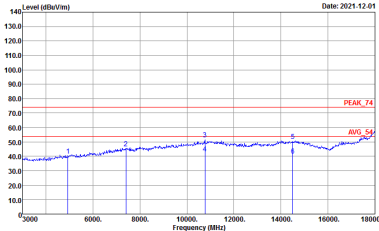
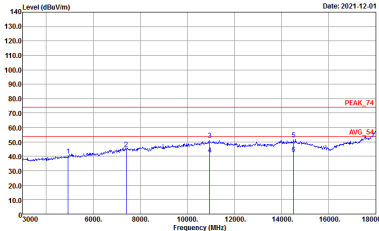


|              |                                                                                                                                                                                         |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                        |
| ANT          | 802.11g CH06 2437MHz                                                                                                                                                                    |                                                                                                                                                                                        |
| 4+3          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 VERTICAL<br/>Detector : Peak</p> |



|              |                                                                                                                                                                                         |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                        |
| ANT          | 802.11g CH11 2462MHz                                                                                                                                                                    |                                                                                                                                                                                        |
| 4+3          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 VERTICAL<br/>Detector : Peak</p> |



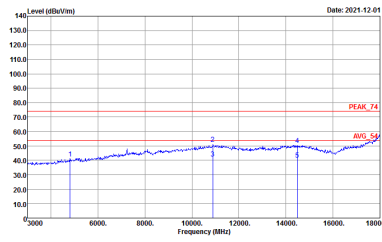
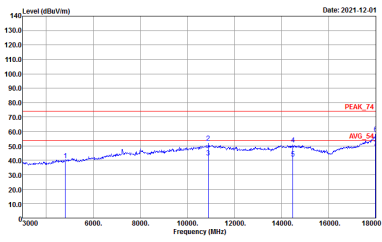
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|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                        |
| ANT          | 802.11g CH12 2467MHz                                                                                                                                                                    |                                                                                                                                                                                        |
| 4+3          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 VERTICAL<br/>Detector : Peak</p> |



|              |                                                                                                                                                              |                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                          |                                                                                                                                                            |
| ANT          | 802.11g CH13 2472MHz                                                                                                                                         |                                                                                                                                                            |
| 4+3          | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 HORIZONTAL<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 VERTICAL<br/>Detector : Peak</p></div> |



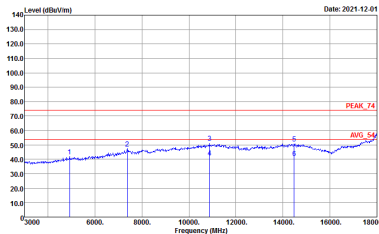
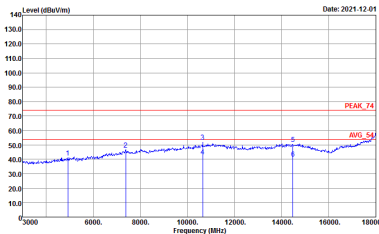
2.4GHz 2400~2483.5MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH01 2412MHz                                                                                                                                                               |                                                                                                                                                                                        |
| 4+3          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>Detector : Peak</p> |



|              |                                                                                                                                                              |                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                          |                                                                                                                                                            |
| ANT          | 802.11n HT20 CH06 2437MHz                                                                                                                                    |                                                                                                                                                            |
| 4+3          | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 HORIZONTAL<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 VERTICAL<br/>Detector : Peak</p></div> |



|              |                                                                                                                                                                                         |                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                        |
| ANT          | 802.11n HT20 CH11 2462MHz                                                                                                                                                               |                                                                                                                                                                                        |
| 4+3          | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                               |
| Peak<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 VERTICAL<br/>Detector : Peak</p> |



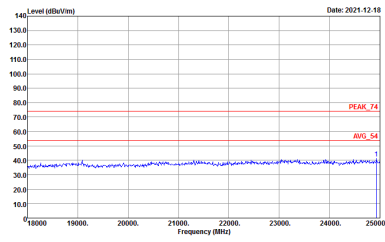
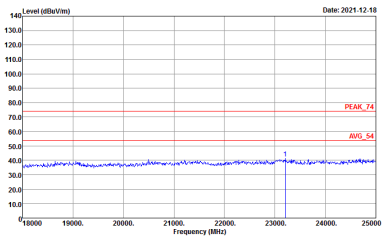
|              |                                                                                                                                                              |                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                          |                                                                                                                                                            |
| ANT          | 802.11n HT20 CH12 2462MHz                                                                                                                                    |                                                                                                                                                            |
| 4+3          | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 HORIZONTAL<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 9120D_1620_20211025 VERTICAL<br/>Detector : Peak</p></div> |



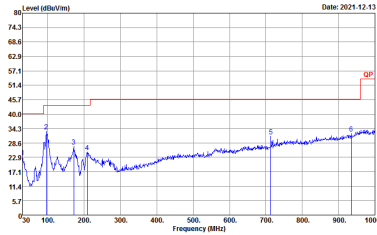
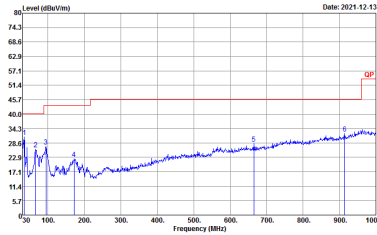
|              |                                                                                                                                                              |                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                          |                                                                                                                                                            |
| ANT          | 802.11n HT20 CH13 2472MHz                                                                                                                                    |                                                                                                                                                            |
| 4+3          | Horizontal                                                                                                                                                   | Vertical                                                                                                                                                   |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2021-12-01</p><p>Site : 03CH15-HY<br/>Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL<br/>Detector : Peak</p></div> |



Emission above 18GHz  
2.4GHz WIFI 802.11g (SHF @ 1m)

| WIFI         | 2.4GHz 2400~2483.5MHz                                                                                                                                                                    |                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11g SHF                                                                                                                                                                              |                                                                                                                                                                                         |
| 4+3          | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 1m SHF HORN_0099L_21051 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH16-HY<br/>Condition : PEAK_74 1m SHF HORN_0099L_21051 VERTICAL<br/>Detector : Peak</p> |
|              |                                                                                                                                                                                          |                                                                                                                                                                                         |

**Emission below 1GHz**  
**2.4GHz WIFI 802.11g (LF)**

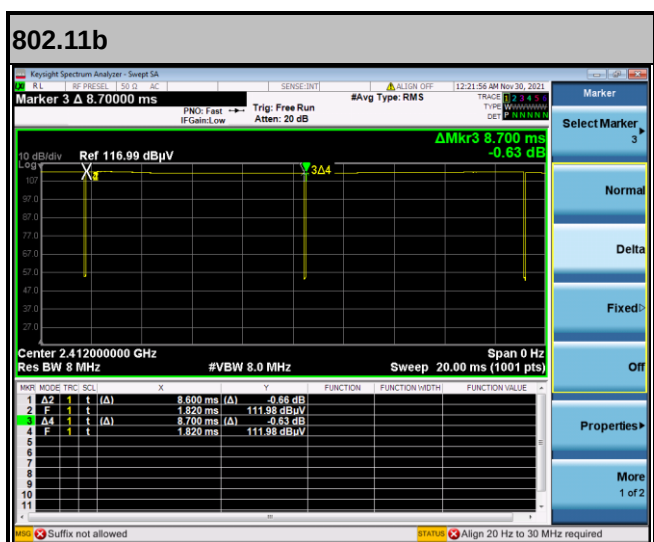
| WIFI                 | 2.4GHz 2400~2483.5MHz                                                                                                                                                                 |                                                                                                                                                                                      |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                  | 802.11g LF                                                                                                                                                                            |                                                                                                                                                                                      |
| 4+3                  | Horizontal                                                                                                                                                                            | Vertical                                                                                                                                                                             |
| <b>QP /<br/>Peak</b> |  <p>Site : 03CH15-HY<br/> Condition : QP 3m 81LO6_41912_20210208 HORIZONTAL<br/> Detector : Peak</p> |  <p>Site : 03CH15-HY<br/> Condition : QP 3m 81LO6_41912_20210208 VERTICAL<br/> Detector : Peak</p> |
|                      |                                                                                                                                                                                       |                                                                                                                                                                                      |



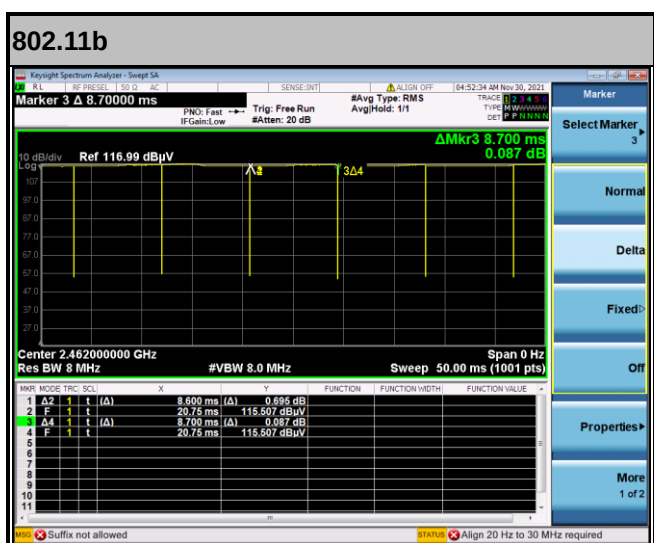
## Appendix E. Duty Cycle Plots

| Antenna | Band                | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting |
|---------|---------------------|---------------|-------|----------|-------------|
| 4       | 802.11b             | 98.85         | -     | -        | 10Hz        |
| 3       | 802.11b             | 98.85         | -     | -        | 10Hz        |
| 4+3     | 802.11g             | 93.46         | 1430  | 0.70     | 1kHz        |
| 4+3     | 2.4GHz 802.11n HT20 | 93.06         | 1340  | 0.75     | 1kHz        |

&lt;Ant. 4&gt;

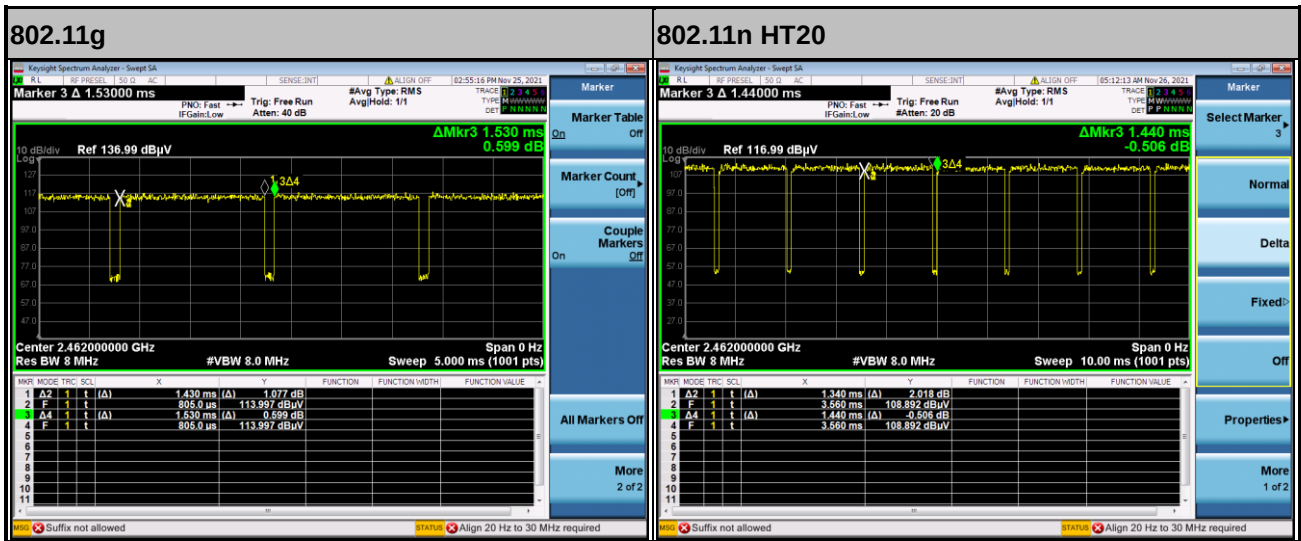


&lt;Ant. 3&gt;





MIMO&lt;Ant. 4+3&gt;



—THE END—