



# FCC RADIO TEST REPORT

**FCC ID** : TVE-3901M12  
**Equipment** : Network Security Gateway  
**Brand Name** : FORTINET **FORTINET**  
**Model Name** : FortiWiFi 50G-5Gxxxxxxxxxx,  
FORTIWIFI-50G-5Gxxxxxxxxxx, FWF-50G-5Gxxxxxxxxxx,  
FortiWiFi 51G-5Gxxxxxxxxxx,  
FORTIWIFI-51G-5Gxxxxxxxxxx, FWF-51G-5Gxxxxxxxxxx  
  
(where "x" can be used as "A-Z", or "0-9", or "-", or blank  
for software purposes or marketing purposes only)  
**Marketing Name** : FortiWiFi 50G-5G, FortiWiFi 51G-5G  
**Applicant** : Fortinet Inc.  
899 KIFER RD  
SUNNYVALE CA 94086  
UNITED STATES  
**Manufacturer** : Fortinet Inc.  
899 KIFER RD  
SUNNYVALE CA 94086  
UNITED STATES  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Dec. 06, 2023 and testing was performed from Dec. 24, 2023 to Feb. 07, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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## History of this test report

| Report No. | Version | Description                                                                                                                        | Issue Date    |
|------------|---------|------------------------------------------------------------------------------------------------------------------------------------|---------------|
| FR3D0631B  | 01      | Initial issue of report                                                                                                            | Mar. 04, 2024 |
| FR3D0631B  | 02      | Revise Product Feature of Equipment Under Test<br>This report is an updated version, replacing the report issued on Mar. 04, 2024. | Mar. 13, 2024 |
|            |         |                                                                                                                                    |               |
|            |         |                                                                                                                                    |               |
|            |         |                                                                                                                                    |               |
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|            |         |                                                                                                                                    |               |
|            |         |                                                                                                                                    |               |
|            |         |                                                                                                                                    |               |

## Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items                     | Result (PASS/FAIL) | Remark                                 |
|---------------|-----------------|--------------------------------|--------------------|----------------------------------------|
| 3.1           | 15.403(i)       | 26dB Bandwidth                 | Pass               | -                                      |
| 3.1           | 2.1049          | 99% Occupied Bandwidth         | Reporting only     | -                                      |
| 3.2           | 15.407(a)       | Maximum Conducted Output Power | Pass               | -                                      |
| 3.3           | 15.407(a)       | Power Spectral Density         | Pass               | -                                      |
| 3.4           | 15.407(b)       | Unwanted Emissions             | Pass               | 1.20 dB under the limit at 5351.52 MHz |
| 3.5           | 15.207          | AC Conducted Emission          | Pass               | 13.74 dB under the limit at 0.34 MHz   |
| 3.6           | 15.203          | Antenna Requirement            | Pass               | -                                      |

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

**Disclaimer:**

1. The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The purpose of different model name is for SSD.

**Reviewed by: Yun Huang**

**Report Producer: Rebecca Wu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature                                                                                                                                            |                 |                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------|
| <b>General Specs</b><br>WCDMA/LTE/5G NR, Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, and GNSS.                                  |                 |                              |
| <b>Antenna Type</b><br>WWAN: Dipole Antenna<br>WLAN: Dipole Antenna<br>Bluetooth: Monopole Antenna<br>GPS / BDS / Galileo / Glonass / SBAS: Dipole Antenna |                 |                              |
| Antenna information                                                                                                                                        |                 |                              |
| 5150 MHz ~ 5250 MHz                                                                                                                                        | Peak Gain (dBi) | Ant. 3: 2.54<br>Ant. 6: 2.54 |

**Remark:**

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. This device does not support partial RU function.

### 1.1.1 Antenna Directional Gain

#### <For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

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

For power measurements on IEEE 802.11 devices,

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.

Array Gain =  $10 \log(N_{ANT}/N_{SS})$  dB.

The directional gain "DG" is calculated as following table.

|               |                |                | DG<br>for<br>Power | DG<br>for<br>PSD | Power<br>Limit<br>Reduction | PSD<br>Limit<br>Reduction |
|---------------|----------------|----------------|--------------------|------------------|-----------------------------|---------------------------|
|               | Ant 3<br>(dBi) | Ant 6<br>(dBi) | (dBi)              | (dBi)            | (dB)                        | (dB)                      |
| <b>Band I</b> | 2.54           | 2.54           | 2.54               | 5.55             | 0.00                        | 0.00                      |

Calculation example:

If a device has two antenna,  $G_{ANT3} = 2.54\text{dBi}$ ;  $G_{ANT6} = 2.54\text{dBi}$

Directional gain of power measurement =  $\max(2.54, 2.54) + 0 = 2.54$  dBi

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[ 10^{(2.54 \text{ dBi} / 20)} + 10^{(2.54 \text{ dBi} / 20)} \right]^2 / 2 \right\} \\ = 5.55 \text{ dBi}$$

Power limit reduction = Composite gain – 6dBi, ( min = 0 )

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, ( min = 0 )

**<TXBF Modes>**

The EUT supports beamforming modes , then

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)e)ii)

Directional gain = GANT + 10 log(NANT/NSS) dBi,

where NSS = the number of independent spatial streams of data and GANT is the antenna gain in dBi

|               |       |       | DG    | DG    | Power     | PSD       |
|---------------|-------|-------|-------|-------|-----------|-----------|
|               |       |       | for   | for   | Limit     | Limit     |
|               | Ant 3 | Ant 6 | Power | PSD   | Reduction | Reduction |
|               | (dBi) | (dBi) | (dBi) | (dBi) | (dB)      | (dB)      |
| <b>Band I</b> | 2.54  | 2.54  | 5.55  | 5.55  | 0.00      | 0.00      |

Calculation example:

Directional gain is derived from formula which is

$$10 \times \log \{ \{ [ 10^{\wedge} (2.54 \text{ dBi} / 20) + 10^{\wedge} (2.54 \text{ dBi} / 20) ] ^ 2 \} / 2 \}$$

$$= 5.55 \text{ dBi}$$

Power and PSD limit reduction = Composite gain – 6dBi, ( min = 0 )

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

### 1.3 Testing Location

|                    |                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site          | Sporton International Inc. Wensan Laboratory                                                                                                     |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City 333010, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| Test Site No.      | <b>Sporton Site No.</b><br>TH05-HY, CO07-HY, 03CH15-HY                                                                                           |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

### 1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

| Frequency Band                       | Channel         | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
|--------------------------------------|-----------------|----------------|---------|----------------|
| 5150-5250 MHz<br>Band 1<br>(U-NII-1) | 36              | 5180           | 44      | 5220           |
|                                      | 38*             | 5190           | 46*     | 5230           |
|                                      | 40              | 5200           | 48      | 5240           |
|                                      | 42 <sup>#</sup> | 5210           |         |                |

**Note:**

1. The above Frequency and Channel with "\*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel with "<sup>#</sup>" are 802.11ac VHT80 and 802.11ax HE80.

## 2.2 Test Mode

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The power for 802.11n mode is smaller than 802.11ac mode, so all other conducted and radiated test is covered by 802.11ac mode.

The power for TxBF mode is smaller than CDD mode, so all other conducted and radiated test is covered by CDD mode.

**The final test modes include the worst data rates for each modulation shown in the table below.**

### MIMO Mode

#### <CDD Mode>

| Modulation                      | Data Rate |
|---------------------------------|-----------|
| 802.11a                         | 6 Mbps    |
| 802.11n HT20 (Covered by VHT20) | MCS0      |
| 802.11n HT40 (Covered by VHT40) | MCS0      |
| 802.11ac VHT20                  | MCS0      |
| 802.11ac VHT40                  | MCS0      |
| 802.11ac VHT80                  | MCS0      |
| 802.11ax HE20                   | MCS0      |
| 802.11ax HE40                   | MCS0      |
| 802.11ax HE80                   | MCS0      |

#### <TXBF Mode>

| Modulation     | Data Rate |
|----------------|-----------|
| 802.11n HT20   | MCS0      |
| 802.11n HT40   | MCS0      |
| 802.11ac VHT20 | MCS0      |
| 802.11ac VHT40 | MCS0      |
| 802.11ac VHT80 | MCS0      |
| 802.11ax HE20  | MCS0      |
| 802.11ax HE40  | MCS0      |
| 802.11ax HE80  | MCS0      |

| Test Cases                   |                                      |
|------------------------------|--------------------------------------|
| <b>AC Conducted Emission</b> | Mode 1 : WLAN (5GHz) + AC/DC Adapter |

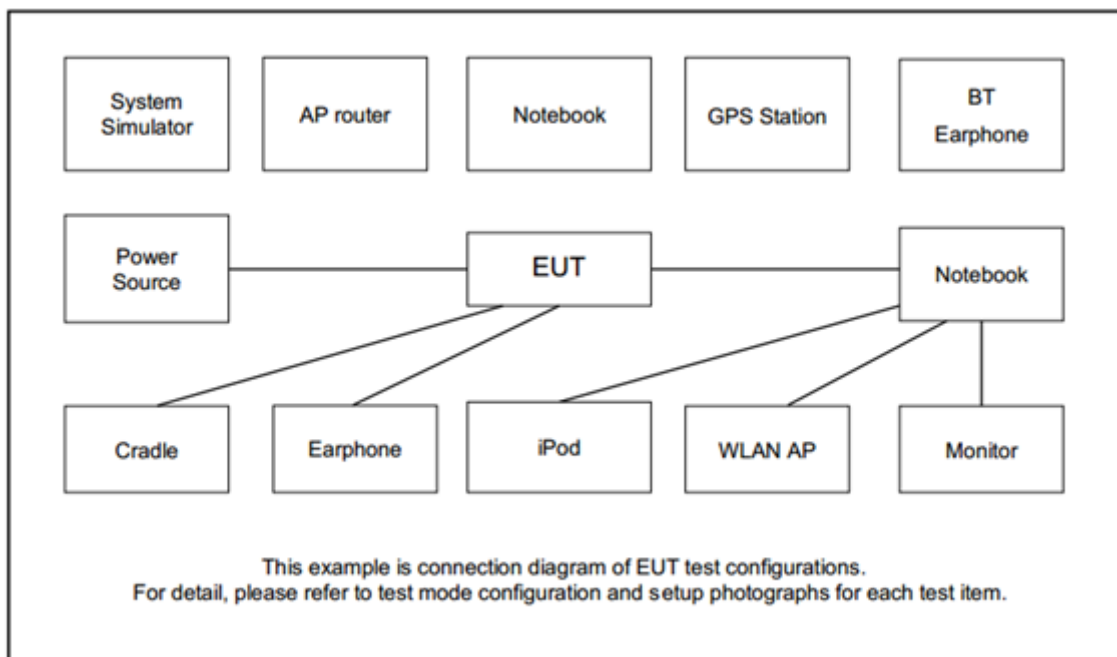
| Ch. #    |        | Band I : 5150-5250 MHz |              |              |
|----------|--------|------------------------|--------------|--------------|
|          |        | 802.11a                | 802.11n HT20 | 802.11n HT40 |
| L        | Low    | 36                     | 36           | 38           |
| M        | Middle | 44                     | -            | -            |
| H        | High   | 48                     | 48           | 46           |
| Straddle |        | -                      | -            | -            |

| Ch. #    |        | Band I : 5150-5250 MHz |                |                |
|----------|--------|------------------------|----------------|----------------|
|          |        | 802.11ac VHT20         | 802.11ac VHT40 | 802.11ac VHT80 |
| L        | Low    | 36                     | 38             | -              |
| M        | Middle | -                      | -              | 42             |
| H        | High   | 48                     | 46             | -              |
| Straddle |        | -                      | -              | -              |

| Ch. #    |        | Band I : 5150-5250 MHz |               |               |
|----------|--------|------------------------|---------------|---------------|
|          |        | 802.11ax HE20          | 802.11ax HE40 | 802.11ax HE80 |
| L        | Low    | 36                     | 38            | -             |
| M        | Middle | 44                     | -             | 42            |
| H        | High   | 48                     | 46            | -             |
| Straddle |        | -                      | -             | -             |

**Remark:** For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

| Item | Equipment | Brand Name | Model Name    | FCC ID  | Data Cable | Power Cord                                                 |
|------|-----------|------------|---------------|---------|------------|------------------------------------------------------------|
| 1.   | Notebook  | DELL       | Latitude 3400 | FCC DoC | N/A        | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |

## 2.5 EUT Operation Test Setup

The RF test items, utility “MT7906 QA 0.0.2.78” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “MT7906 QA 0.0.2.78” software tool was used to enable the EUT to transmit signals continuously.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

### 3 Test Result

#### 3.1 26dB & 99% Occupied Bandwidth Measurement

##### 3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

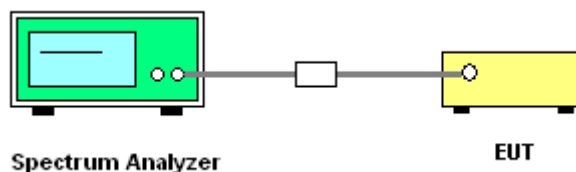
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW)  $\geq 3 * RBW$ .
8. Measure and record the results in the test report.

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



## **3.2 Maximum Conducted Output Power Measurement**

### **3.2.1 Limit of Maximum Conducted Output Power**

<FCC 14-30 CFR 15.407>

**For the 5.15–5.25 GHz bands:**

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

### **3.2.2 Measuring Instruments**

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

### 3.2.3 Test Procedures

#### <CDD Modes>

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

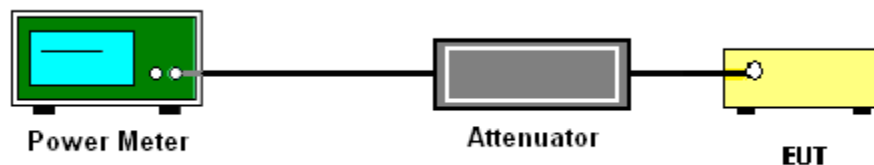
#### <TXBF Modes>

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



### **3.3 Power Spectral Density Measurement**

#### **3.3.1 Limit of Power Spectral Density**

##### **<FCC 14-30 CFR 15.407>**

##### **For the 5.15–5.25 GHz bands:**

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **3.3.2 Measuring Instruments**

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

### 3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

#### <CDD Modes>

##### # Method SA-2 #

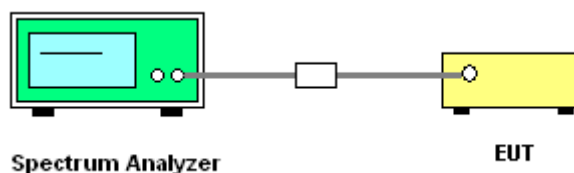
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 1 MHz.
  - Set VBW  $\geq$  3 MHz.
  - Number of points in sweep  $\geq$  2 Span / RBW.
  - Sweep time = auto.
  - Detector = RMS
  - Trace average at least 100 traces in power averaging mode.
  - Add  $10 \log(1/x)$ , where  $x$  is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.
1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
  2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
  3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

### 3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

#### 3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.
- (2) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table:

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 – 0.490      | 2400/F(kHz)                          | 300                              |
| 0.490 – 1.705      | 24000/F(kHz)                         | 30                               |
| 1.705 – 30.0       | 30                                   | 30                               |
| 30 – 88            | 100                                  | 3                                |
| 88 – 216           | 150                                  | 3                                |
| 216 - 960          | 200                                  | 3                                |
| Above 960          | 500                                  | 3                                |

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

$$E = \frac{1000000\sqrt{30P}}{3} \quad \mu\text{V/m, where P is the eirp (Watts)}$$

| EIRP (dBm) | Field Strength at 3m (dB $\mu$ V/m) |
|------------|-------------------------------------|
| - 27       | 68.3                                |

(3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of  $-27$  dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

### 3.4.2 Measuring Instruments

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

### 3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW  $\geq$  3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

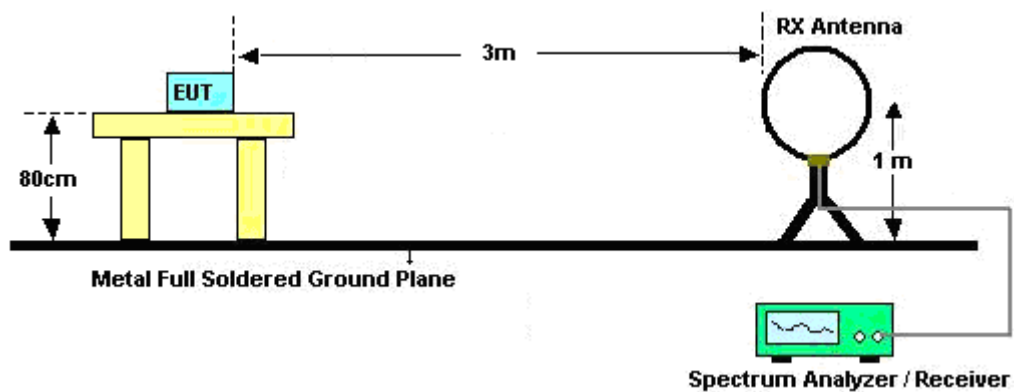
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW  $\geq$   $1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

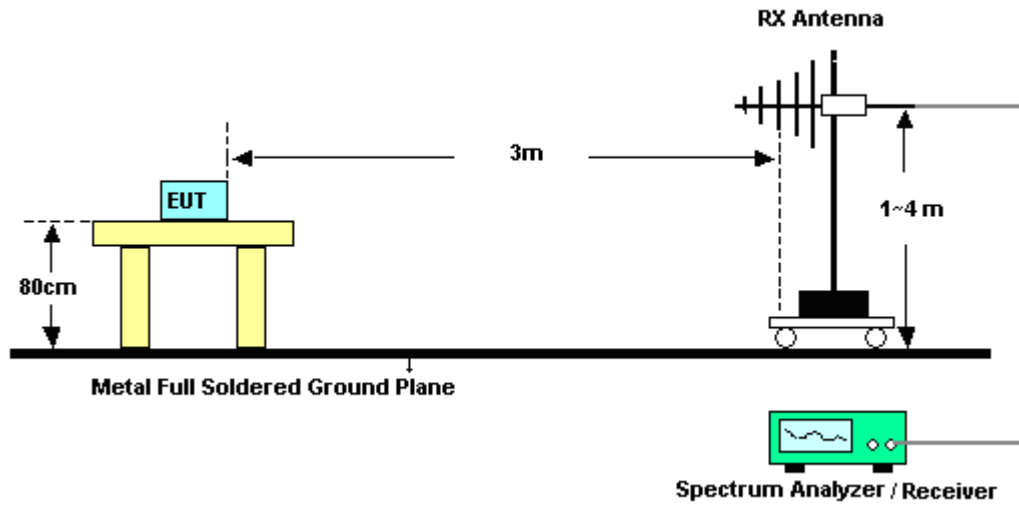
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

### 3.4.4 Test Setup

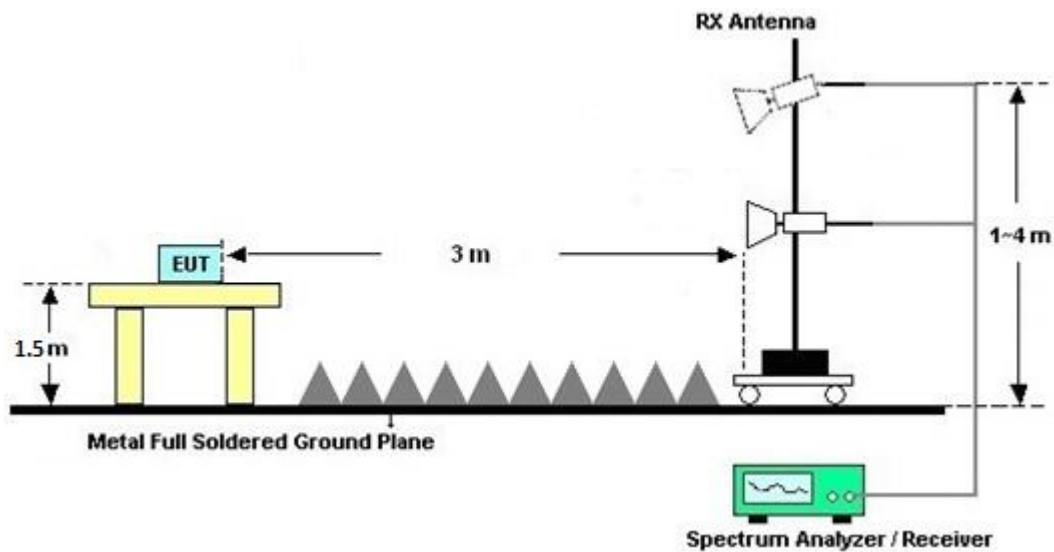
**For radiated emissions below 30MHz**



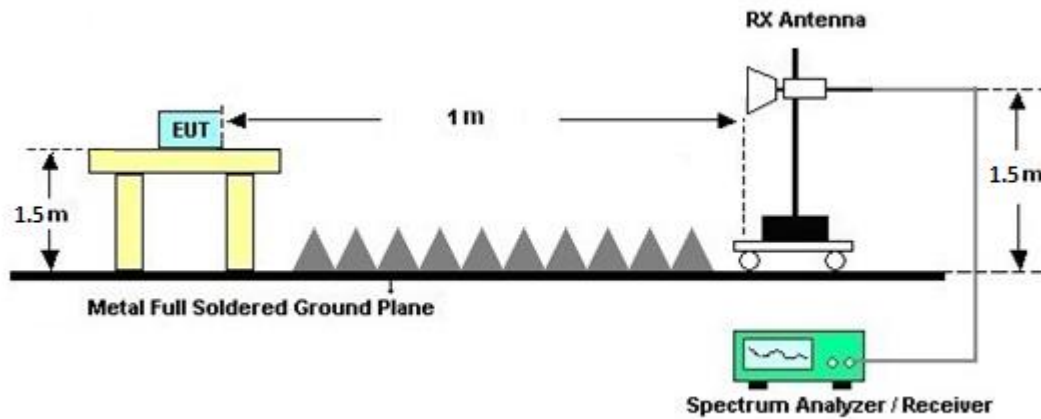
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



### 3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

### 3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

### 3.4.7 Duty Cycle

Please refer to Appendix E.

### 3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

## 3.5 AC Conducted Emission Measurement

### 3.5.1 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 (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.

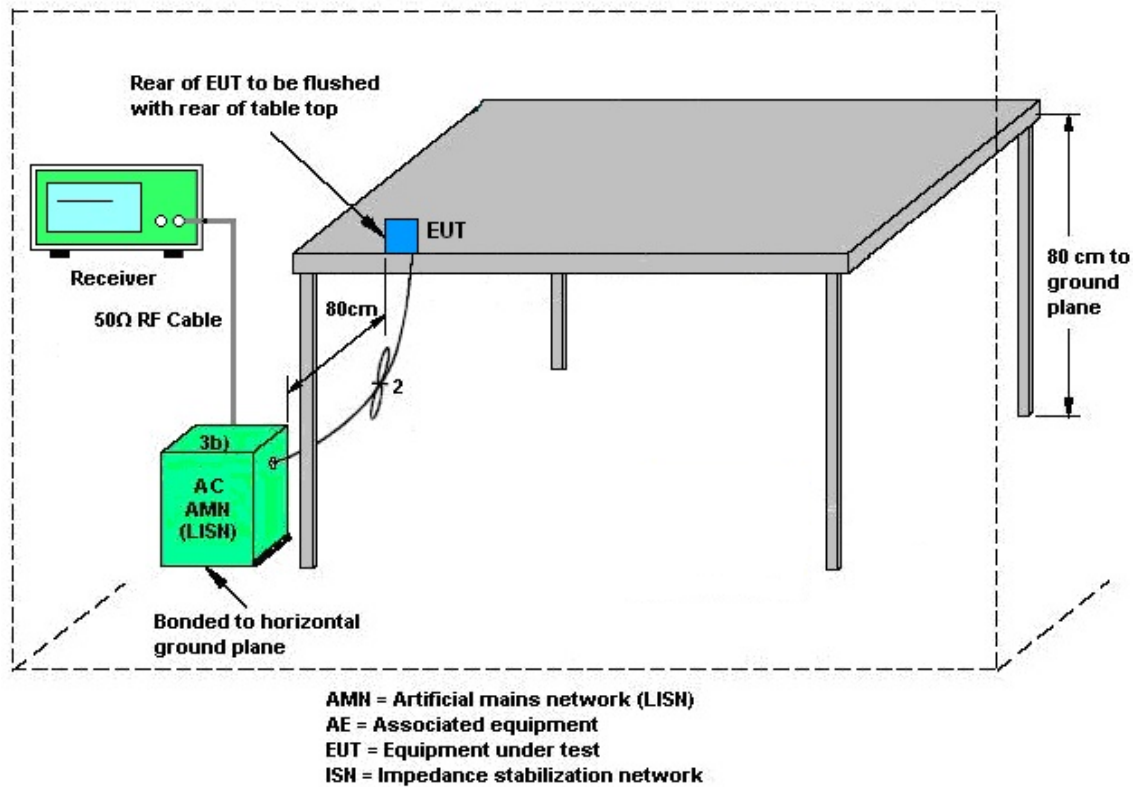
### 3.5.2 Measuring Instruments

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

### 3.5.3 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 with Maximum Hold Mode.

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.6 Antenna Requirements**

### **3.6.1 Standard Applicable**

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.

### **3.6.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.



## 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                              | 100488                               | 9 kHz~30 MHz                | Sep. 12, 2023    | Dec. 24, 2023~<br>Feb. 07, 2024 | Sep. 11, 2024 | Radiation<br>(03CH15-HY) |
| Bilog Antenna           | TESEQ              | CBL 6111D &<br>00800N1D01N<br>-06    | 41912 & 05                           | 30MHz~1GHz                  | Feb. 05, 2023    | Dec. 24, 2023~<br>Feb. 03, 2024 | Feb. 04, 2024 | Radiation<br>(03CH15-HY) |
| Bilog Antenna           | TESEQ              | CBL 6111D &<br>00800N1D01N<br>-06    | 47020 & 06                           | 30MHz~1GHz                  | Oct. 07, 2023    | Feb. 04, 2024~<br>Feb. 07, 2024 | Oct. 06, 2024 | Radiation<br>(03CH15-HY) |
| Horn Antenna            | SCHWARZBE<br>CK    | BBHA 9120 D                          | 9120D-02294                          | 1GHz~18GHz                  | Jun. 30, 2023    | Dec. 24, 2023~<br>Feb. 07, 2024 | Jun. 29, 2024 | Radiation<br>(03CH15-HY) |
| SHF-EHF Horn<br>Antenna | SCHWARZBE<br>CK    | BBHA 9170                            | 1225                                 | 18GHz~40GHz                 | Jul. 10, 2023    | Dec. 24, 2023~<br>Feb. 07, 2024 | Jul. 09, 2024 | Radiation<br>(03CH15-HY) |
| Amplifier               | SONOMA             | 310N                                 | 363440                               | 9kHz~1GHz                   | Dec. 26, 2022    | Dec. 24, 2023                   | Dec. 25, 2023 | Radiation<br>(03CH15-HY) |
| Amplifier               | SONOMA             | 310N                                 | 363440                               | 9kHz~1GHz                   | Dec. 25, 2023    | Dec. 25, 2023~<br>Feb. 07, 2024 | Dec. 24, 2024 | Radiation<br>(03CH15-HY) |
| Preamplifier            | EMEC               | EM01G18G                             | 060837                               | 1GHz~18GHz                  | Feb. 16, 2023    | Dec. 24, 2023~<br>Feb. 07, 2024 | Feb. 15, 2024 | Radiation<br>(03CH15-HY) |
| Preamplifier            | EM Electronics     | EM01G18G                             | 060802                               | 1GHz~18GHz                  | Mar. 03, 2023    | Dec. 24, 2023~<br>Feb. 07, 2024 | Mar. 02, 2024 | Radiation<br>(03CH15-HY) |
| EMI Test<br>Receiver    | Keysight           | N9038A(MXE)                          | MY53290045                           | 20MHz~8.4GHz                | Oct. 06, 2023    | Dec. 24, 2023~<br>Feb. 07, 2024 | Oct. 05, 2024 | Radiation<br>(03CH15-HY) |
| Spectrum<br>Analyzer    | Keysight           | N9010B                               | MY60241058                           | 10Hz~44GHz                  | Jul. 06, 2023    | Dec. 24, 2023~<br>Feb. 07, 2024 | Jul. 05, 2024 | Radiation<br>(03CH15-HY) |
| Antenna Mast            | ChainTek           | MBS-520-1                            | N/A                                  | 1m~4m                       | N/A              | Dec. 24, 2023~<br>Feb. 07, 2024 | N/A           | Radiation<br>(03CH15-HY) |
| Turn Table              | ChainTek           | T-200-S-1                            | N/A                                  | 0~360 Degree                | N/A              | Dec. 24, 2023~<br>Feb. 07, 2024 | N/A           | Radiation<br>(03CH15-HY) |
| Software                | Audix              | E3<br>6.2009-8-24(k5<br>)            | RK-000451                            | N/A                         | N/A              | Dec. 24, 2023~<br>Feb. 07, 2024 | N/A           | Radiation<br>(03CH15-HY) |
| RF Cable                | HUBER +<br>SUHNER  | SUCOFLEX<br>104, 102E                | MY582185/4,<br>519228/2,803<br>950/2 | N/A                         | Jun. 13, 2023    | Dec. 24, 2023~<br>Feb. 07, 2024 | Jun. 12, 2024 | Radiation<br>(03CH15-HY) |
| RF Cable                | HUBER +<br>SUHNER  | SUCOFLEX<br>102                      | 804011/2,804<br>012/2                | 18-40G                      | Jan. 03, 2023    | Dec. 24, 2023~<br>Jan. 01, 2024 | Jan. 02, 2024 | Radiation<br>(03CH15-HY) |
| RF Cable                | HUBER +<br>SUHNER  | SUCOFLEX<br>102                      | 804011/2,804<br>012/2                | 18-40G                      | Jan. 02, 2024    | Jan. 02, 2024~<br>Feb. 07, 2024 | Jan. 01, 2025 | Radiation<br>(03CH15-HY) |
| Filter                  | Wainwright         | WLJ4-1000-15<br>30-6000-40ST         | SN4                                  | 1.53GHz Low<br>Pass Filter  | Jun. 14, 2023    | Dec. 24, 2023~<br>Feb. 07, 2024 | Jun. 13, 2024 | Radiation<br>(03CH15-HY) |
| Filter                  | Wainwright         | WHKX8-5872.<br>5-6750-18000-<br>40ST | SN6                                  | 6.75GHz High<br>Pass Filter | Jun. 07, 2023    | Dec. 24, 2023~<br>Feb. 07, 2024 | Jun. 06, 2024 | Radiation<br>(03CH15-HY) |
| Hygrometer              | TECPEL             | DTM-302                              | SN4                                  | N/A                         | Jul. 26, 2023    | Dec. 24, 2023~<br>Feb. 07, 2024 | Jul. 25, 2024 | Radiation<br>(03CH15-HY) |
| Hygrometer              | TECPEL             | DTM-303A                             | TP201996                             | N/A                         | Nov. 07, 2023    | Jan. 02, 2024~<br>Jan. 22, 2024 | Nov. 06, 2024 | Conducted<br>(TH05-HY)   |
| Power Sensor            | DARE               | RPR3006W                             | 17I00015SNO<br>36 (NO:35)            | 10MHz~6GHz                  | Aug. 23, 2023    | Jan. 02, 2024~<br>Jan. 22, 2024 | Aug. 22, 2024 | Conducted<br>(TH05-HY)   |
| Signal<br>Analyzer      | Rohde &<br>Schwarz | FSV40                                | 101564                               | 10Hz ~ 40GHz                | Sep. 12, 2023    | Jan. 02, 2024~<br>Jan. 22, 2024 | Sep. 11, 2024 | Conducted<br>(TH05-HY)   |



| Instrument          | Brand Name      | Model No.     | Serial No.    | Characteristics | Calibration Date | Test Date     | Due Date      | Remark               |
|---------------------|-----------------|---------------|---------------|-----------------|------------------|---------------|---------------|----------------------|
| AC Power Source     | ACPOWER         | AFC-11003G    | F317040033    | N/A             | N/A              | Jan. 17, 2024 | N/A           | Conduction (CO07-HY) |
| Software            | Rohde & Schwarz | EMC32 V10.30  | N/A           | N/A             | N/A              | Jan. 17, 2024 | N/A           | Conduction (CO07-HY) |
| Pulse Limiter       | SCHWARZBECK     | VTSD 9561-F N | 9561-F N00373 | 9kHz-200MHz     | Oct. 20, 2023    | Jan. 17, 2024 | Oct. 19, 2024 | Conduction (CO07-HY) |
| RF Cable            | HUBER + SUHNER  | RG 214/U      | 1358175       | 9kHz-30MHz      | Mar. 15, 2023    | Jan. 17, 2024 | Mar. 14, 2024 | Conduction (CO07-HY) |
| Two-Line V-Network  | TESEQ           | NNB 51        | 45051         | N/A             | Mar. 05, 2023    | Jan. 17, 2024 | Mar. 04, 2024 | Conduction (CO07-HY) |
| Four-Line V-Network | TESEQ           | NNB 52        | 36122         | N/A             | Mar. 13, 2023    | Jan. 17, 2024 | Mar. 12, 2024 | Conduction (CO07-HY) |
| EMI Test Receiver   | Rohde & Schwarz | ESR3          | 102317        | 9kHz-3.6GHz     | Sep. 20, 2023    | Jan. 17, 2024 | Sep. 19, 2024 | Conduction (CO07-HY) |

## 5 Measurement Uncertainty

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

|                                                                            |         |
|----------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 3.44 dB |
|----------------------------------------------------------------------------|---------|

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

|                                                                            |         |
|----------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 6.30 dB |
|----------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

|                                                                            |         |
|----------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 4.50 dB |
|----------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

|                                                                            |         |
|----------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.50 dB |
|----------------------------------------------------------------------------|---------|

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

|                                                                            |         |
|----------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.40 dB |
|----------------------------------------------------------------------------|---------|

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

|                |                            |                    |       |    |
|----------------|----------------------------|--------------------|-------|----|
| Test Engineer: | Ching Chen and Eason Huang | Temperature:       | 21~25 | °C |
| Test Date:     | 2024/01/02 ~ 2024/01/22    | Relative Humidity: | 51~54 | %  |

**TEST RESULTS DATA**  
**26dB and 99% OBW**

| U-NII-1 MIMO |           |                 |     |             |                     |       |                       |        |                                    |       |                                   |       |   |      |
|--------------|-----------|-----------------|-----|-------------|---------------------|-------|-----------------------|--------|------------------------------------|-------|-----------------------------------|-------|---|------|
| Mod.         | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |        | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       |   | Note |
|              |           |                 |     |             | Ant 3               | Ant 6 | Ant 3                 | Ant 6  | Ant 3                              | Ant 6 | Ant 3                             | Ant 6 |   |      |
| 11a          | 6Mbps     | 2               | 36  | 5180        | 17.38               | 17.28 | 30.47                 | 30.59  | -                                  |       | 22.38                             |       | - |      |
| 11a          | 6Mbps     | 2               | 44  | 5220        | 28.92               | 27.77 | 43.58                 | 43.91  | -                                  |       | 23.01                             |       |   |      |
| 11a          | 6Mbps     | 2               | 48  | 5240        | 35.66               | 32.97 | 53.42                 | 52.00  | -                                  |       | 23.01                             |       |   |      |
| VHT20        | MCS0      | 2               | 36  | 5180        | 18.98               | 18.73 | 34.70                 | 36.46  | -                                  |       | 22.73                             |       |   |      |
| VHT20        | MCS0      | 2               | 44  | 5220        | 36.11               | 34.22 | 51.79                 | 49.79  | -                                  |       | 23.01                             |       |   |      |
| VHT20        | MCS0      | 2               | 48  | 5240        | 40.96               | 35.91 | 58.54                 | 56.83  | -                                  |       | 23.01                             |       |   |      |
| VHT40        | MCS0      | 2               | 38  | 5190        | 36.96               | 36.76 | 60.56                 | 57.84  | -                                  |       | 23.01                             |       |   |      |
| VHT40        | MCS0      | 2               | 46  | 5230        | 42.76               | 38.46 | 89.89                 | 86.08  | -                                  |       | 23.01                             |       |   |      |
| VHT80        | MCS0      | 2               | 42  | 5210        | 75.52               | 75.40 | 105.47                | 107.30 | -                                  |       | 23.01                             |       |   |      |

**TEST RESULTS DATA**  
**Average Power Table**

| FCC U-NII-1 MIMO |           |                 |     |             |                               |       |       |                                 |       |          |       |           |
|------------------|-----------|-----------------|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|-----------|
| Mod.             | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | Pass/Fail |
|                  |           |                 |     |             | Ant 3                         | Ant 6 | SUM   | Ant 3                           | Ant 6 | Ant 3    | Ant 6 |           |
| 11a              | 6Mbps     | 2               | 36  | 5180        | 21.10                         | 21.00 | 24.06 | 30.00                           |       | 2.54     |       | Pass      |
| 11a              | 6Mbps     | 2               | 44  | 5220        | 23.90                         | 23.50 | 26.71 | 30.00                           |       | 2.54     |       | Pass      |
| 11a              | 6Mbps     | 2               | 48  | 5240        | 25.50                         | 24.70 | 28.13 | 30.00                           |       | 2.54     |       | Pass      |
| HT20             | MCS0      | 2               | 36  | 5180        | 21.00                         | 21.10 | 24.06 | 30.00                           |       | 2.54     |       | Pass      |
| HT20             | MCS0      | 2               | 44  | 5220        | 23.40                         | 23.00 | 26.21 | 30.00                           |       | 2.54     |       | Pass      |
| HT20             | MCS0      | 2               | 48  | 5240        | 23.60                         | 23.20 | 26.41 | 30.00                           |       | 2.54     |       | Pass      |
| HT40             | MCS0      | 2               | 38  | 5190        | 18.50                         | 18.40 | 21.46 | 30.00                           |       | 2.54     |       | Pass      |
| HT40             | MCS0      | 2               | 46  | 5230        | 20.80                         | 20.70 | 23.76 | 30.00                           |       | 2.54     |       | Pass      |
| VHT20            | MCS0      | 2               | 36  | 5180        | 21.80                         | 21.90 | 24.86 | 30.00                           |       | 2.54     |       | Pass      |
| VHT20            | MCS0      | 2               | 44  | 5220        | 23.40                         | 23.10 | 26.26 | 30.00                           |       | 2.54     |       | Pass      |
| VHT20            | MCS0      | 2               | 48  | 5240        | 24.10                         | 23.20 | 26.68 | 30.00                           |       | 2.54     |       | Pass      |
| VHT40            | MCS0      | 2               | 38  | 5190        | 19.10                         | 19.00 | 22.06 | 30.00                           |       | 2.54     |       | Pass      |
| VHT40            | MCS0      | 2               | 46  | 5230        | 20.90                         | 20.80 | 23.86 | 30.00                           |       | 2.54     |       | Pass      |
| VHT80            | MCS0      | 2               | 42  | 5210        | 15.20                         | 15.10 | 18.16 | 30.00                           |       | 2.54     |       | Pass      |

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

| FCC U-NII-1 MIMO |           |                 |     |             |                  |       |                                                  |       |       |                             |       |          |       |            |
|------------------|-----------|-----------------|-----|-------------|------------------|-------|--------------------------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------|
| Mod.             | Data Rate | N <sub>rx</sub> | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density with Duty Factor (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|                  |           |                 |     |             | Ant 3            | Ant 6 | Ant 3                                            | Ant 6 | SUM   | Ant 3                       | Ant 6 | Ant 3    | Ant 6 |            |
| 11a              | 6Mbps     | 2               | 36  | 5180        | 0.22             | 0.22  | -                                                |       | 13.30 | 17.00                       | 5.55  | -        |       | Pass       |
| 11a              | 6Mbps     | 2               | 44  | 5220        | 0.22             | 0.22  |                                                  |       | 16.23 | 17.00                       | 5.55  |          |       | Pass       |
| 11a              | 6Mbps     | 2               | 48  | 5240        | 0.22             | 0.22  |                                                  |       | 16.92 | 17.00                       | 5.55  |          |       | Pass       |
| VHT20            | MCS0      | 2               | 36  | 5180        | 0.22             | 0.22  |                                                  |       | 13.74 | 17.00                       | 5.55  |          |       | Pass       |
| VHT20            | MCS0      | 2               | 44  | 5220        | 0.22             | 0.22  |                                                  |       | 16.80 | 17.00                       | 5.55  |          |       | Pass       |
| VHT20            | MCS0      | 2               | 48  | 5240        | 0.22             | 0.22  |                                                  |       | 16.97 | 17.00                       | 5.55  |          |       | Pass       |
| VHT40            | MCS0      | 2               | 38  | 5190        | 0.35             | 0.35  |                                                  |       | 8.63  | 17.00                       | 5.55  |          |       | Pass       |
| VHT40            | MCS0      | 2               | 46  | 5230        | 0.35             | 0.35  |                                                  |       | 11.79 | 17.00                       | 5.55  |          |       | Pass       |
| VHT80            | MCS0      | 2               | 42  | 5210        | 0.69             | 0.69  |                                                  |       | 1.45  | 17.00                       | 5.55  |          |       | Pass       |

**TEST RESULTS DATA**  
**26dB and 99% OBW**

| U-NII-1 MIMO |           |                 |     |             |           |                     |       |                       |       |                                    |       |                                   |       |   |      |
|--------------|-----------|-----------------|-----|-------------|-----------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|---|------|
| Mod.         | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | RU Config | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       |   | Note |
|              |           |                 |     |             |           | Ant 3               | Ant 6 | Ant 3                 | Ant 6 | Ant 3                              | Ant 6 | Ant 3                             | Ant 6 |   |      |
| HE20         | MCS0      | 2               | 36  | 5180        | Full      | 19.43               | 19.48 | 32.94                 | 31.58 | -                                  | -     | 22.88                             | -     | - |      |
| HE20         | MCS0      | 2               | 44  | 5220        | Full      | 25.97               | 25.32 | 48.97                 | 43.06 | -                                  | -     | 23.01                             | -     | - |      |
| HE20         | MCS0      | 2               | 48  | 5240        | Full      | 36.66               | 34.57 | 55.61                 | 51.24 | -                                  | -     | 23.01                             | -     | - |      |
| HE40         | MCS0      | 2               | 38  | 5190        | Full      | 38.06               | 37.96 | 50.77                 | 50.40 | -                                  | -     | 23.01                             | -     | - |      |
| HE40         | MCS0      | 2               | 46  | 5230        | Full      | 38.16               | 38.26 | 63.82                 | 68.11 | -                                  | -     | 23.01                             | -     | - |      |
| HE80         | MCS0      | 2               | 42  | 5210        | Full      | 77.08               | 77.08 | 97.89                 | 87.62 | -                                  | -     | 23.01                             | -     | - |      |

**TEST RESULTS DATA**  
**Average Power Table**

| FCC U-NII-1 MIMO |           |                 |     |             |           |                               |       |       |                                 |       |          |       |           |
|------------------|-----------|-----------------|-----|-------------|-----------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|-----------|
| Mod.             | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | RU Config | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | Pass/Fail |
|                  |           |                 |     |             |           | Ant 3                         | Ant 6 | SUM   | Ant 3                           | Ant 6 | Ant 3    | Ant 6 |           |
| HE20             | MCS0      | 2               | 36  | 5180        | Full      | 21.50                         | 21.50 | 24.51 | 30.00                           |       | 2.54     |       | Pass      |
| HE20             | MCS0      | 2               | 44  | 5220        | Full      | 23.50                         | 23.40 | 26.46 | 30.00                           |       | 2.54     |       | Pass      |
| HE20             | MCS0      | 2               | 48  | 5240        | Full      | 25.40                         | 25.00 | 28.21 | 30.00                           |       | 2.54     |       | Pass      |
| HE40             | MCS0      | 2               | 38  | 5190        | Full      | 18.80                         | 18.70 | 21.76 | 30.00                           |       | 2.54     |       | Pass      |
| HE40             | MCS0      | 2               | 46  | 5230        | Full      | 20.90                         | 20.80 | 23.86 | 30.00                           |       | 2.54     |       | Pass      |
| HE80             | MCS0      | 2               | 42  | 5210        | Full      | 15.00                         | 14.80 | 17.91 | 30.00                           |       | 2.54     |       | Pass      |

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

| FCC U-NII-1 MIMO |           |                 |     |             |           |                  |       |                                                  |       |       |                             |       |          |       |            |
|------------------|-----------|-----------------|-----|-------------|-----------|------------------|-------|--------------------------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------|
| Mod.             | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | RU Config | Duty Factor (dB) |       | Average Power Density with Duty Factor (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|                  |           |                 |     |             |           | Ant 3            | Ant 6 | Ant 3                                            | Ant 6 | SUM   | Ant 3                       | Ant 6 | Ant 3    | Ant 6 |            |
| HE20             | MCS0      | 2               | 36  | 5180        | Full      | 0.23             | 0.23  | -                                                |       | 13.17 | 17.00                       | 5.55  |          | -     | Pass       |
| HE20             | MCS0      | 2               | 44  | 5220        | Full      | 0.23             | 0.23  |                                                  |       | 14.84 | 17.00                       | 5.55  |          |       | Pass       |
| HE20             | MCS0      | 2               | 48  | 5240        | Full      | 0.23             | 0.23  |                                                  |       | 16.54 | 17.00                       | 5.55  |          |       | Pass       |
| HE40             | MCS0      | 2               | 38  | 5190        | Full      | 0.45             | 0.41  |                                                  |       | 8.03  | 17.00                       | 5.55  |          |       | Pass       |
| HE40             | MCS0      | 2               | 46  | 5230        | Full      | 0.45             | 0.41  |                                                  |       | 10.18 | 17.00                       | 5.55  |          |       | Pass       |
| HE80             | MCS0      | 2               | 42  | 5210        | Full      | 0.78             | 0.78  |                                                  |       | 1.40  | 17.00                       | 5.55  |          |       | Pass       |

&lt;TXBF&gt;

**TEST RESULTS DATA**  
**Average Power Table**

| FCC U-NII-1 MIMO |           |                 |     |             |                               |       |       |                                 |       |          |       |           |
|------------------|-----------|-----------------|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|-----------|
| Mod.             | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | Pass/Fail |
|                  |           |                 |     |             | Ant 3                         | Ant 6 | SUM   | Ant 3                           | Ant 6 | Ant 3    | Ant 6 |           |
| HT20             | MCS0      | 2               | 36  | 5180        | 20.90                         | 21.00 | 23.96 | 30.00                           |       | 5.55     |       | Pass      |
| HT20             | MCS0      | 2               | 44  | 5220        | 23.00                         | 22.60 | 25.81 | 30.00                           |       | 5.55     |       | Pass      |
| HT20             | MCS0      | 2               | 48  | 5240        | 23.70                         | 22.80 | 26.28 | 30.00                           |       | 5.55     |       | Pass      |
| HT40             | MCS0      | 2               | 38  | 5190        | 18.40                         | 18.30 | 21.36 | 30.00                           |       | 5.55     |       | Pass      |
| HT40             | MCS0      | 2               | 46  | 5230        | 20.70                         | 20.60 | 23.66 | 30.00                           |       | 5.55     |       | Pass      |
| VHT20            | MCS0      | 2               | 36  | 5180        | 21.50                         | 21.60 | 24.56 | 30.00                           |       | 5.55     |       | Pass      |
| VHT20            | MCS0      | 2               | 44  | 5220        | 23.10                         | 22.70 | 25.91 | 30.00                           |       | 5.55     |       | Pass      |
| VHT20            | MCS0      | 2               | 48  | 5240        | 24.00                         | 23.10 | 26.58 | 30.00                           |       | 5.55     |       | Pass      |
| VHT40            | MCS0      | 2               | 38  | 5190        | 19.00                         | 18.90 | 21.96 | 30.00                           |       | 5.55     |       | Pass      |
| VHT40            | MCS0      | 2               | 46  | 5230        | 20.80                         | 18.90 | 22.96 | 30.00                           |       | 5.55     |       | Pass      |
| VHT80            | MCS0      | 2               | 42  | 5210        | 15.10                         | 15.00 | 18.06 | 30.00                           |       | 5.55     |       | Pass      |

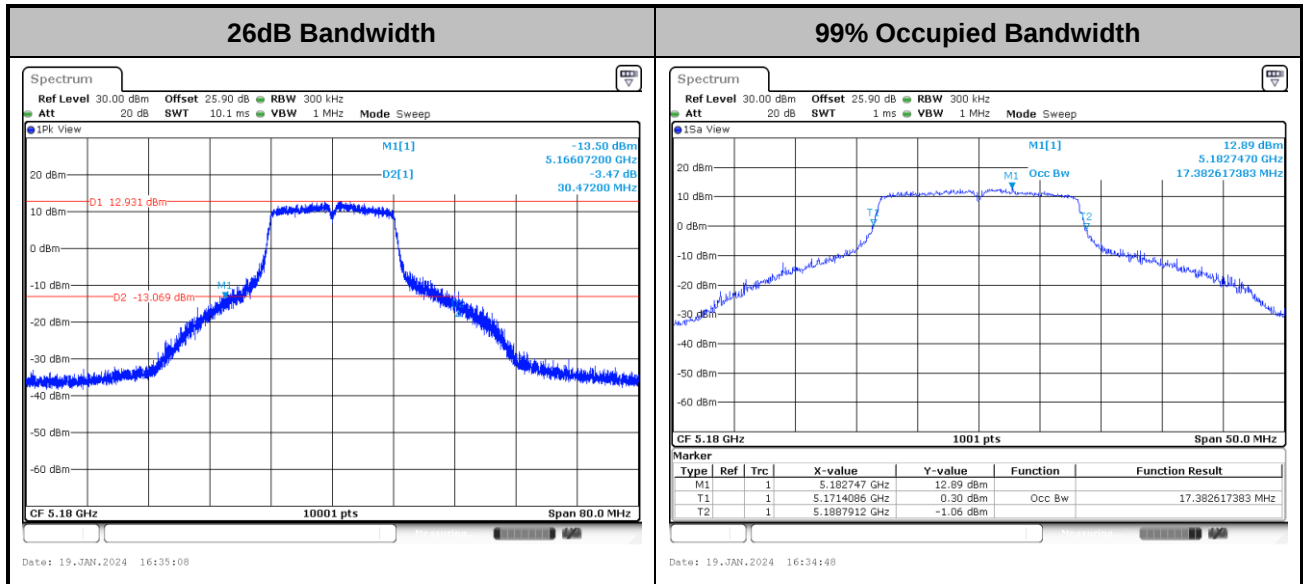
**TEST RESULTS DATA**  
**Average Power Table**

| FCC U-NII-1 MIMO |           |                 |     |             |           |                               |       |       |                                 |       |          |       |   |           |
|------------------|-----------|-----------------|-----|-------------|-----------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|---|-----------|
| Mod.             | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | RU Config | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       |   | Pass/Fail |
|                  |           |                 |     |             |           | Ant 3                         | Ant 6 | SUM   | Ant 3                           | Ant 6 | Ant 3    | Ant 6 |   |           |
| HE20             | MCS0      | 2               | 36  | 5180        | Full      | 21.40                         | 21.40 | 24.41 | 30.00                           |       | 5.55     |       | - | Pass      |
| HE20             | MCS0      | 2               | 44  | 5220        | Full      | 23.40                         | 23.30 | 26.36 | 30.00                           |       | 5.55     |       |   | Pass      |
| HE20             | MCS0      | 2               | 48  | 5240        | Full      | 25.30                         | 24.90 | 28.11 | 30.00                           |       | 5.55     |       |   | Pass      |
| HE40             | MCS0      | 2               | 38  | 5190        | Full      | 18.70                         | 18.60 | 21.66 | 30.00                           |       | 5.55     |       |   | Pass      |
| HE40             | MCS0      | 2               | 46  | 5230        | Full      | 20.80                         | 20.70 | 23.76 | 30.00                           |       | 5.55     |       |   | Pass      |
| HE80             | MCS0      | 2               | 42  | 5210        | Full      | 14.90                         | 14.70 | 17.81 | 30.00                           |       | 5.55     |       |   | Pass      |

## Test Result of 26dB & 99% Occupied Bandwidth

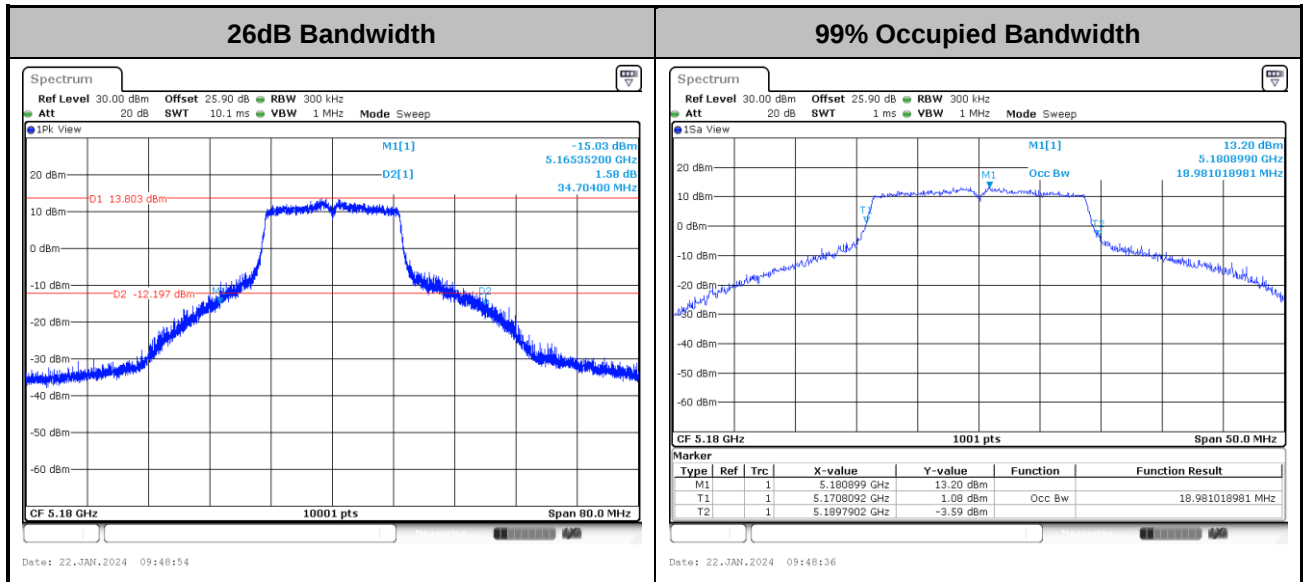
MIMO <Ant. 3+6>

<802.11a>



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

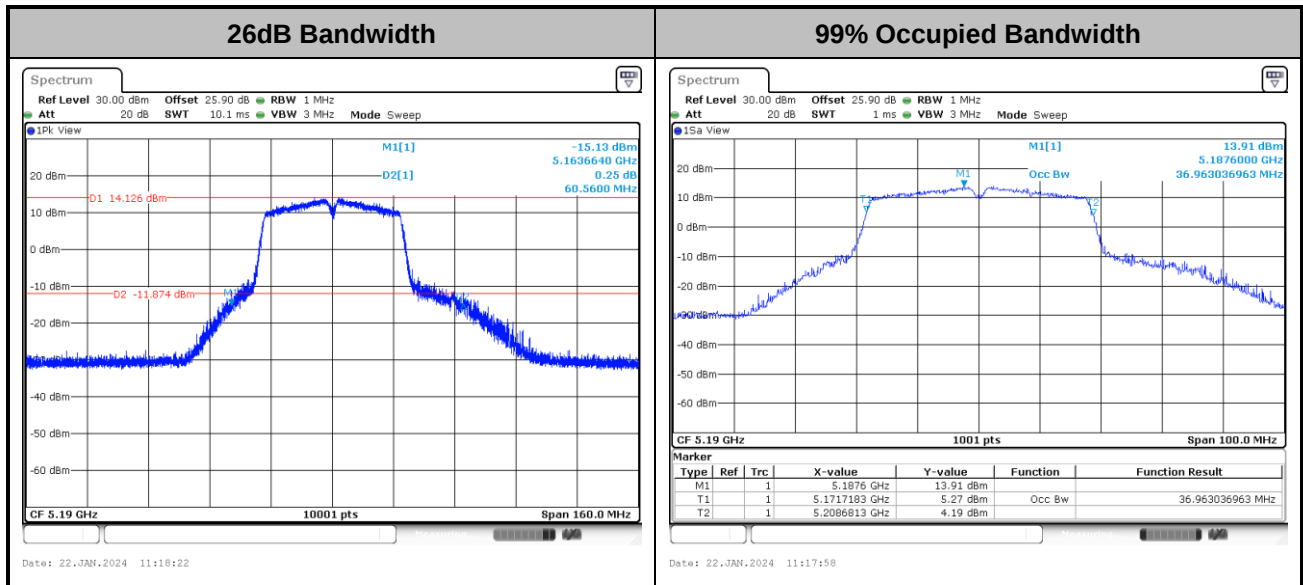
<802.11ac VHT20>



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

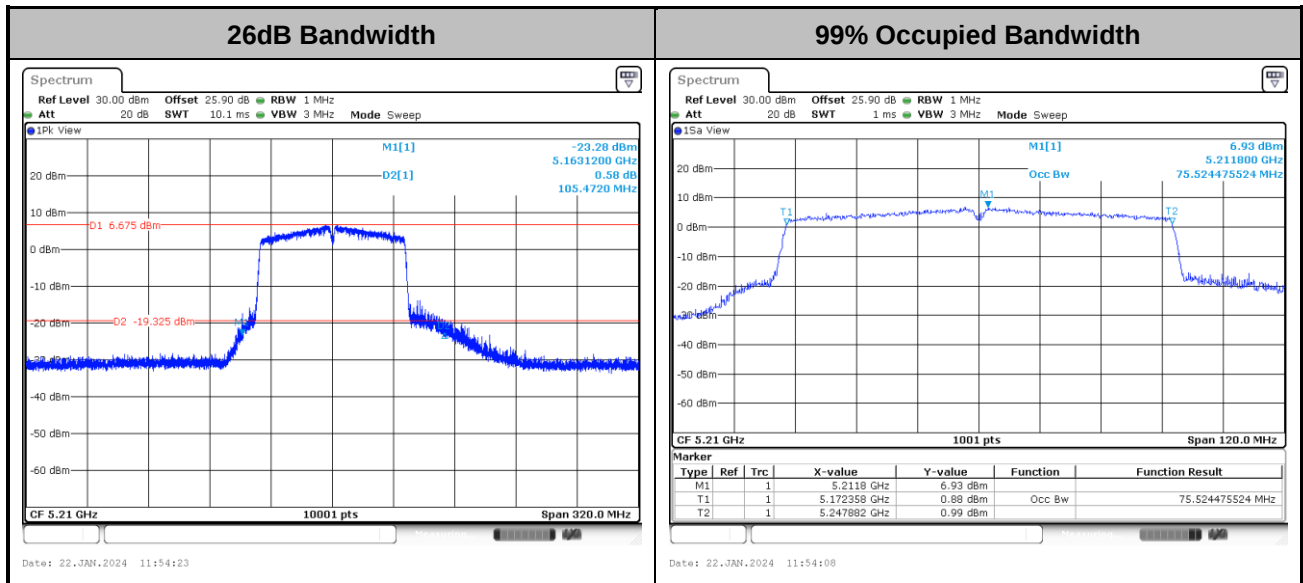


## &lt;802.11ac VHT40&gt;



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

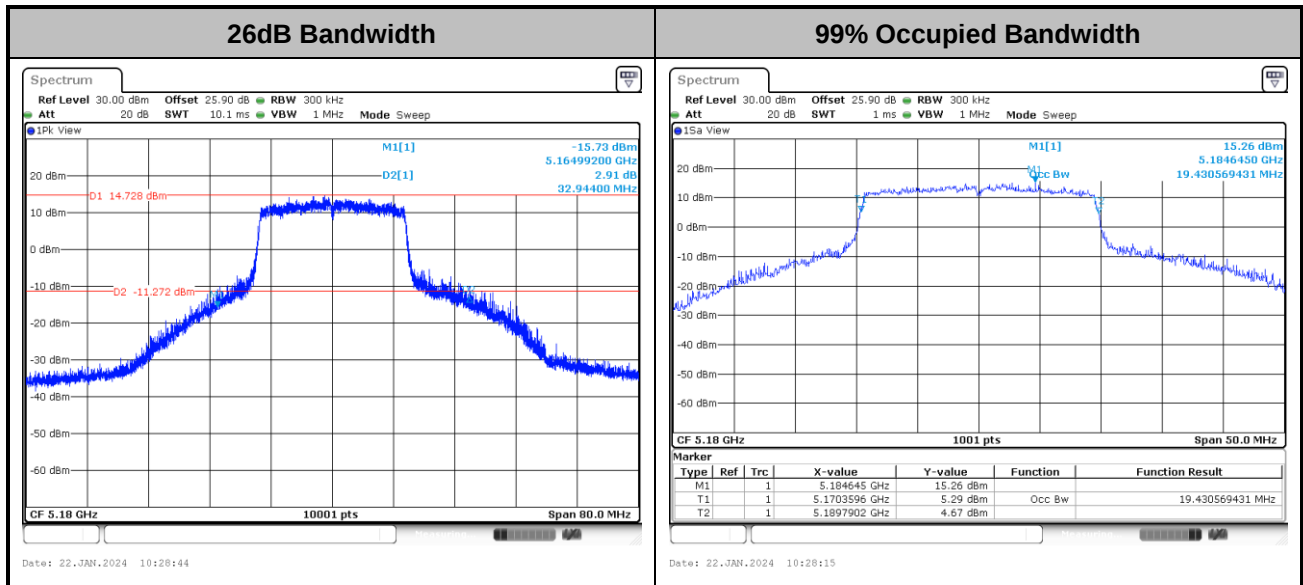
## &lt;802.11ac VHT80&gt;



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

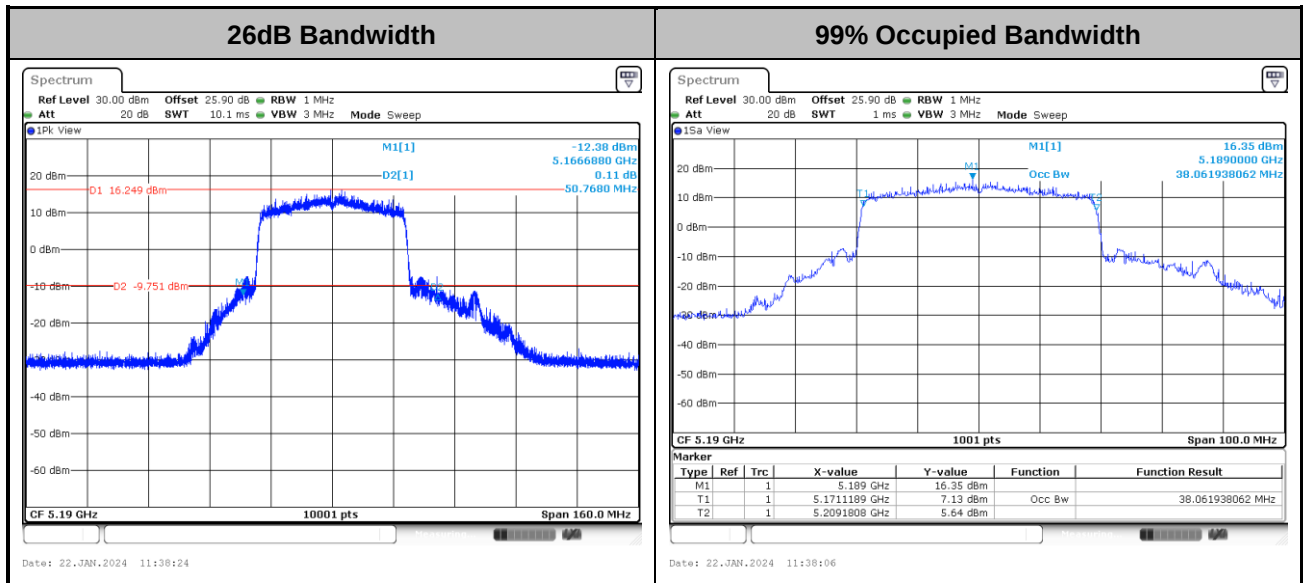


## &lt;802.11ax HE20&gt;



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

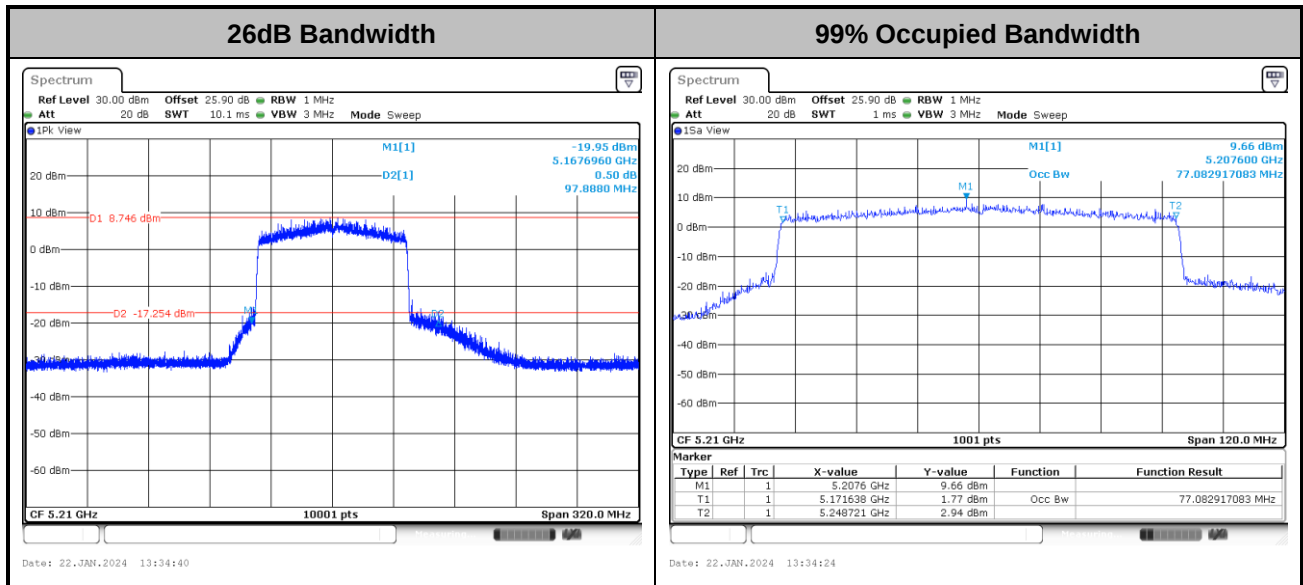
## &lt;802.11ax HE40&gt;



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



&lt;802.11ax HE80&gt;

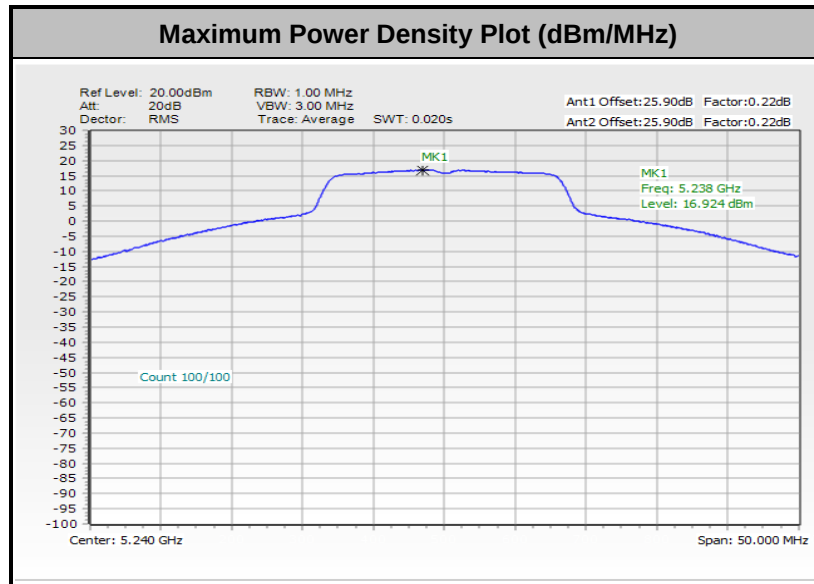


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

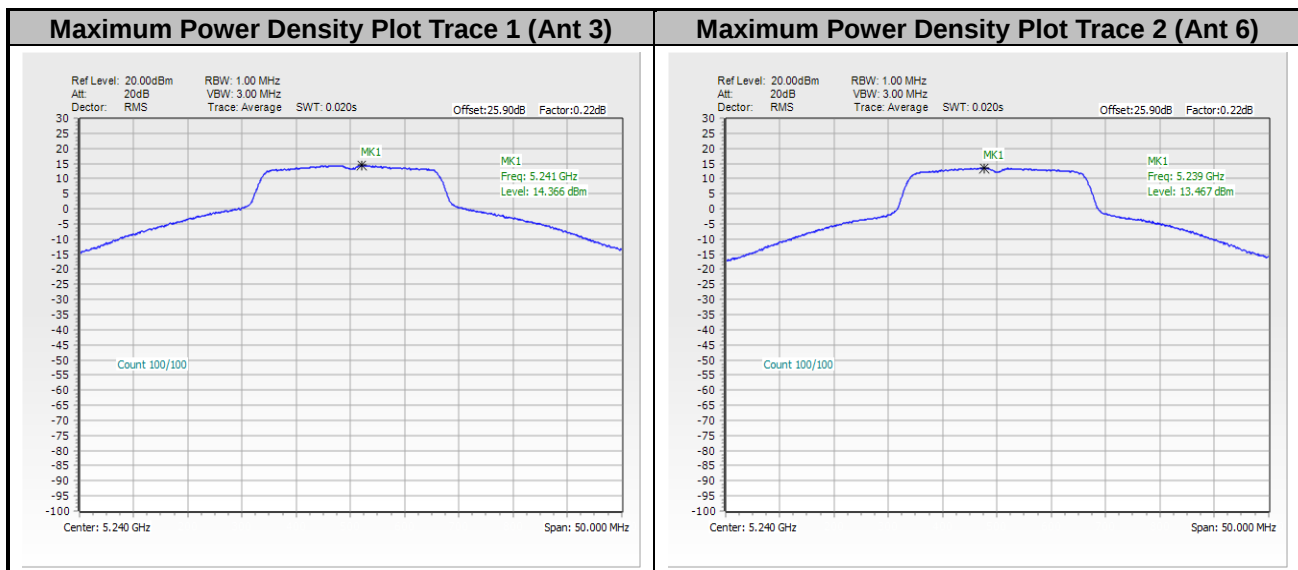


## Test Result of Power Spectral Density

&lt;802.11a&gt;

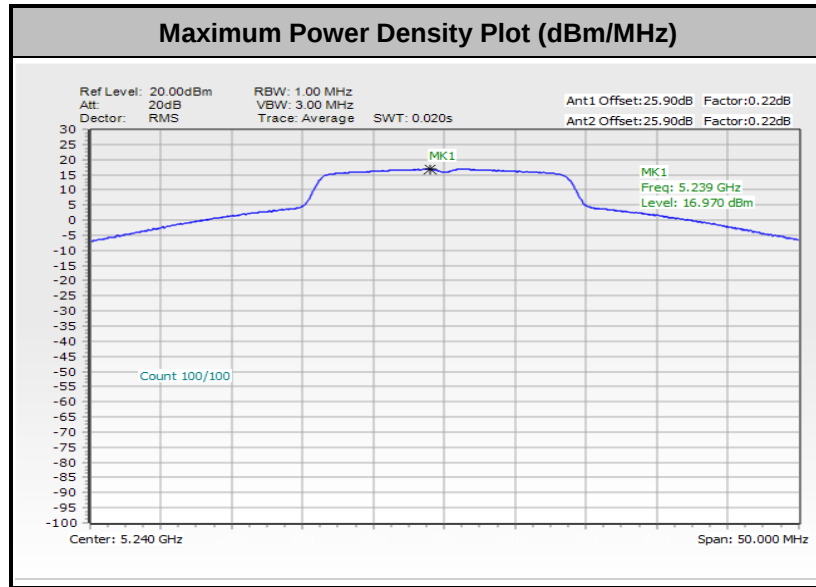


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

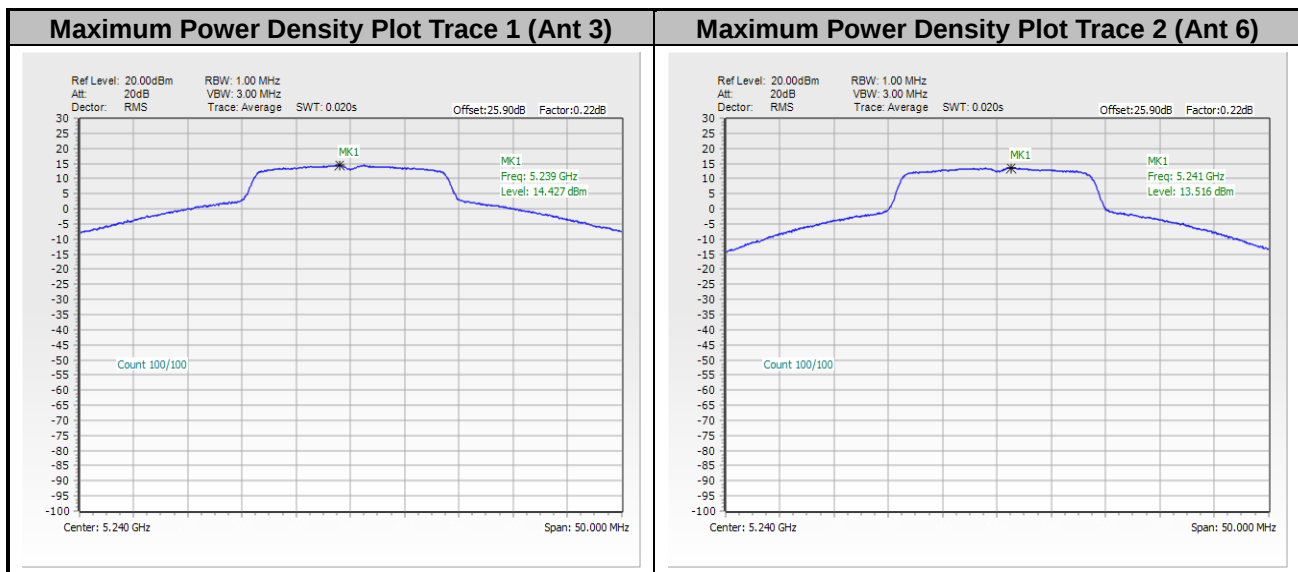




<802.11ac VHT20>

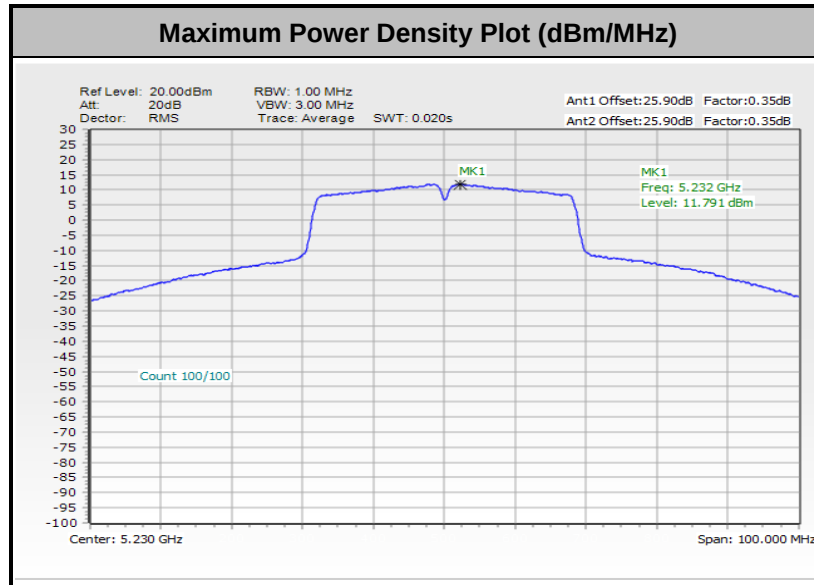


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

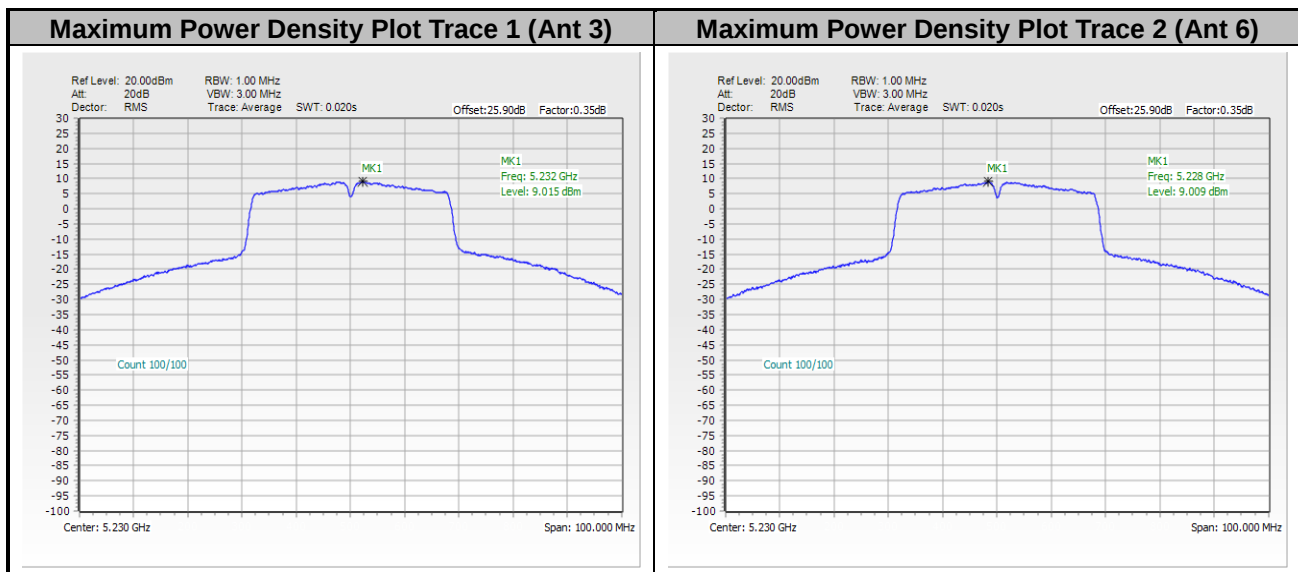




&lt;802.11ac VHT40&gt;

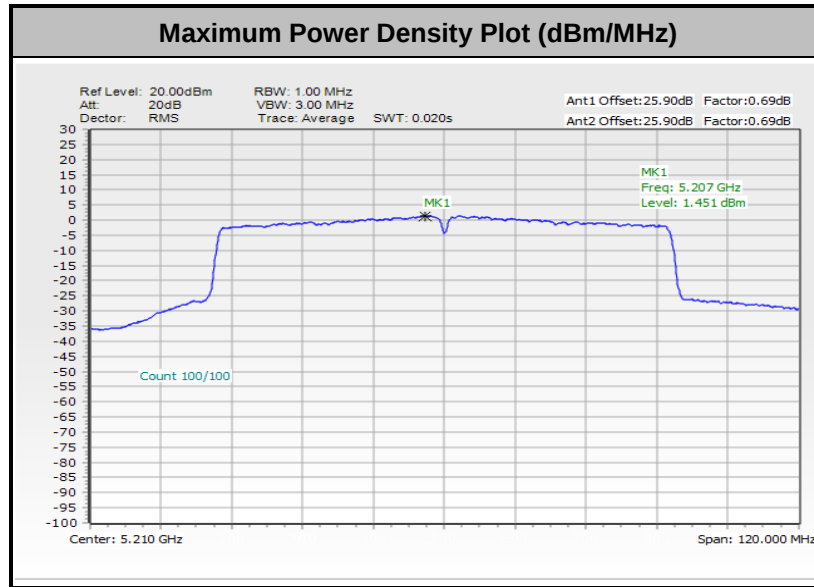


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

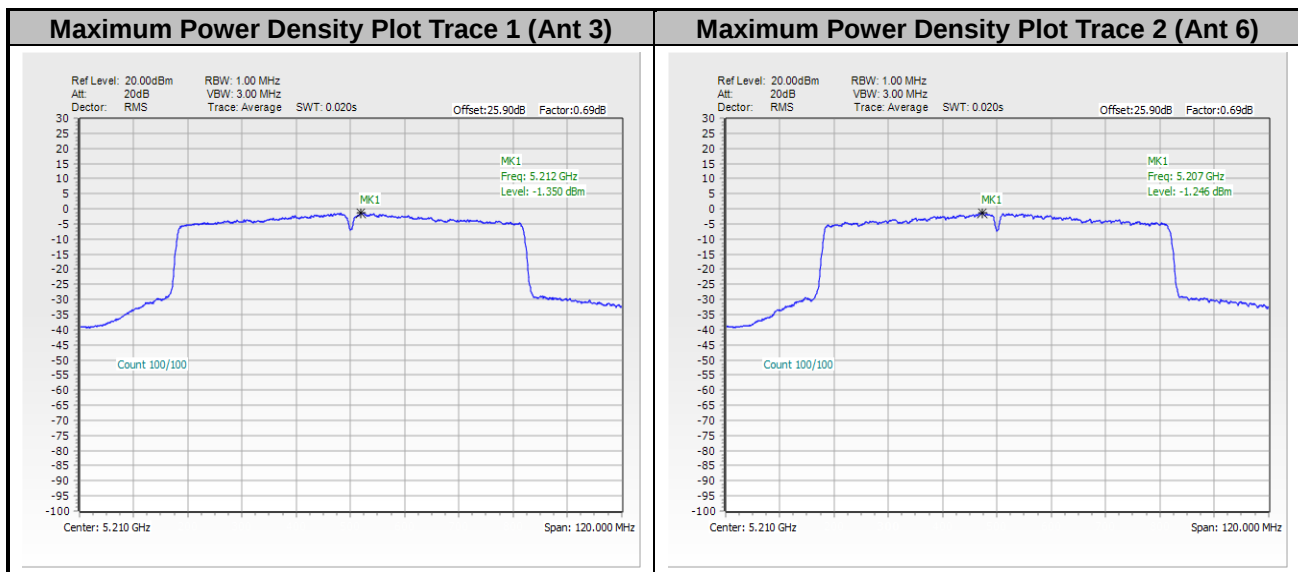




&lt;802.11ac VHT80&gt;

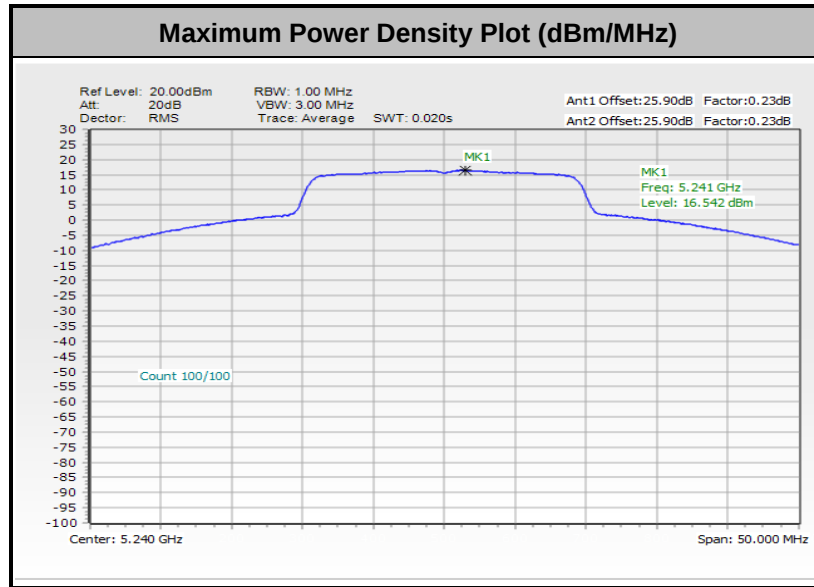


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

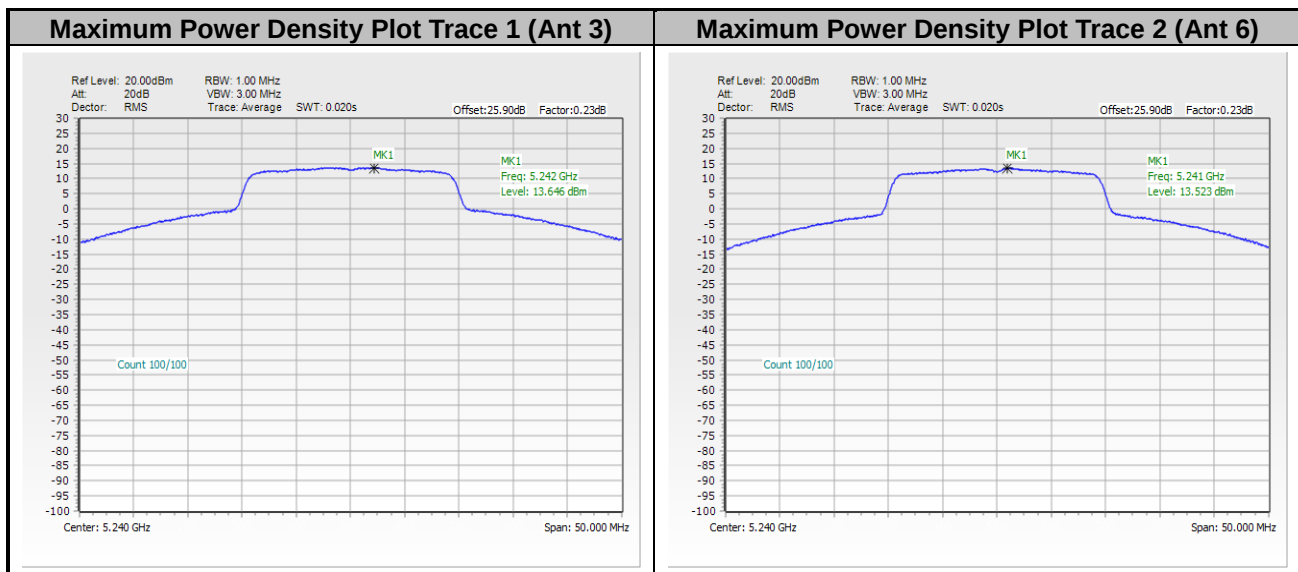




&lt;802.11ax HE20&gt;

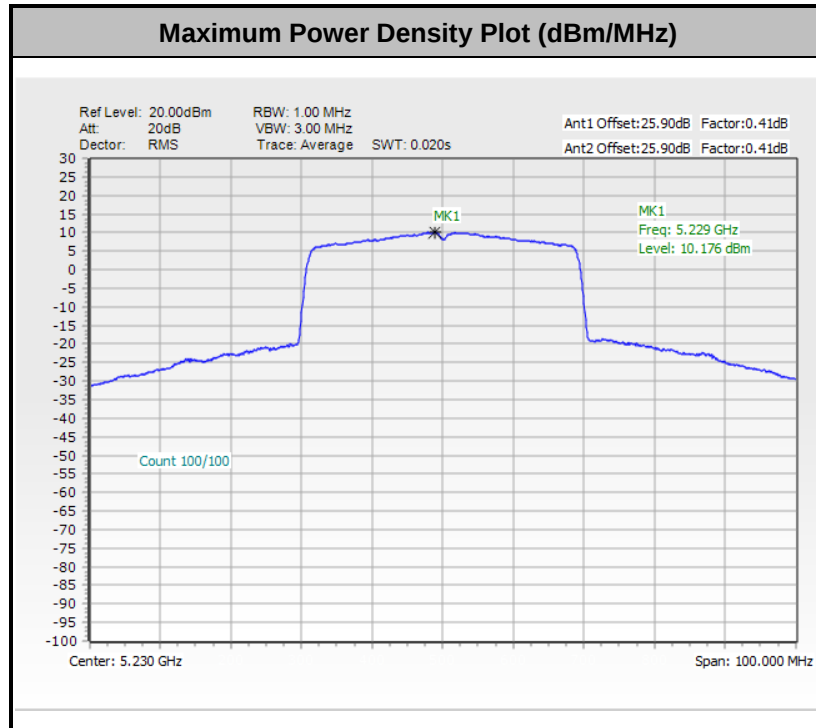


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

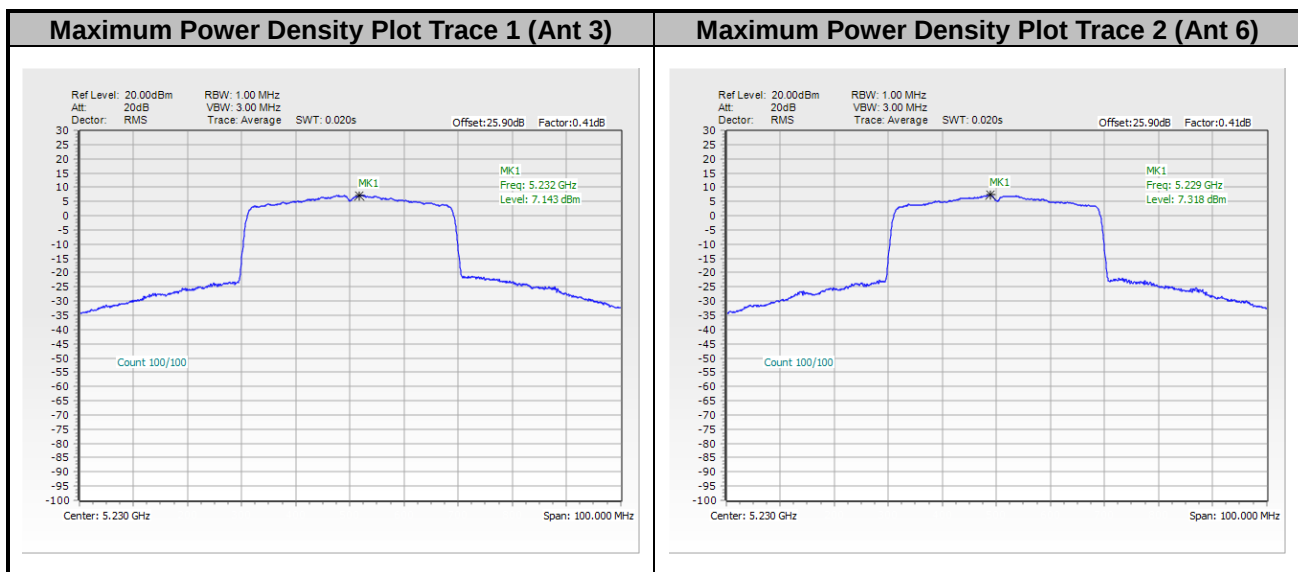




<802.11ax HE40>

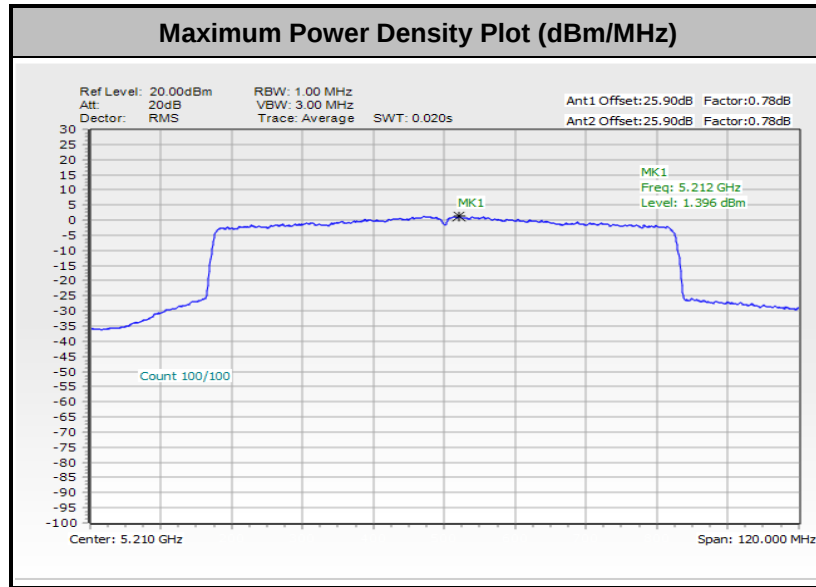


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

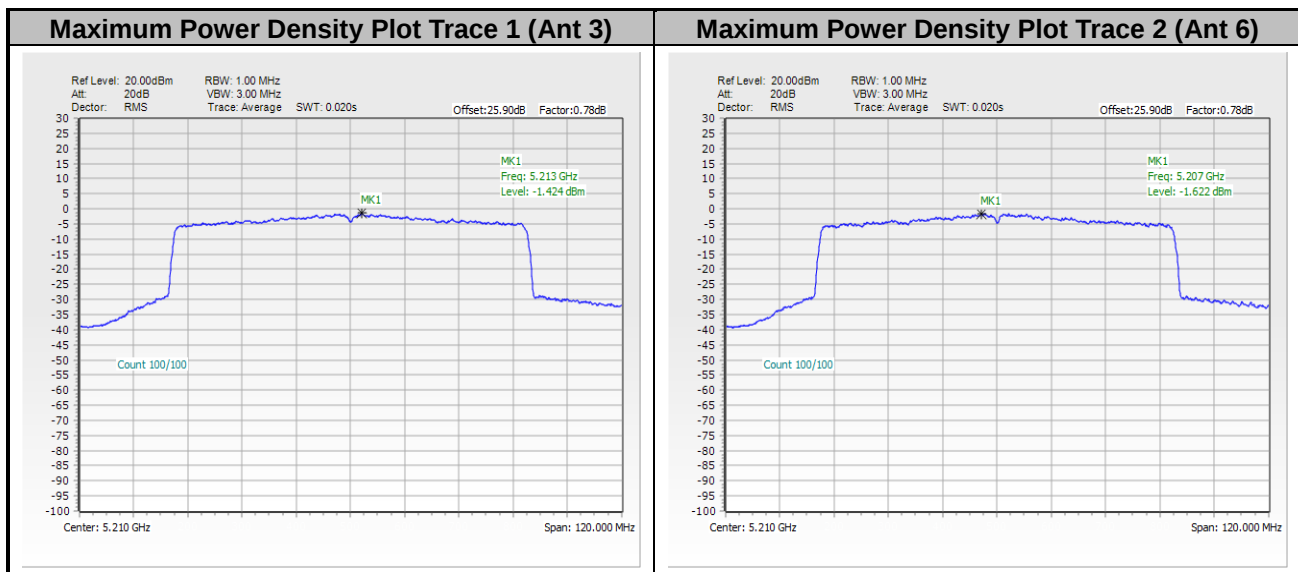




<802.11ax HE80>



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.





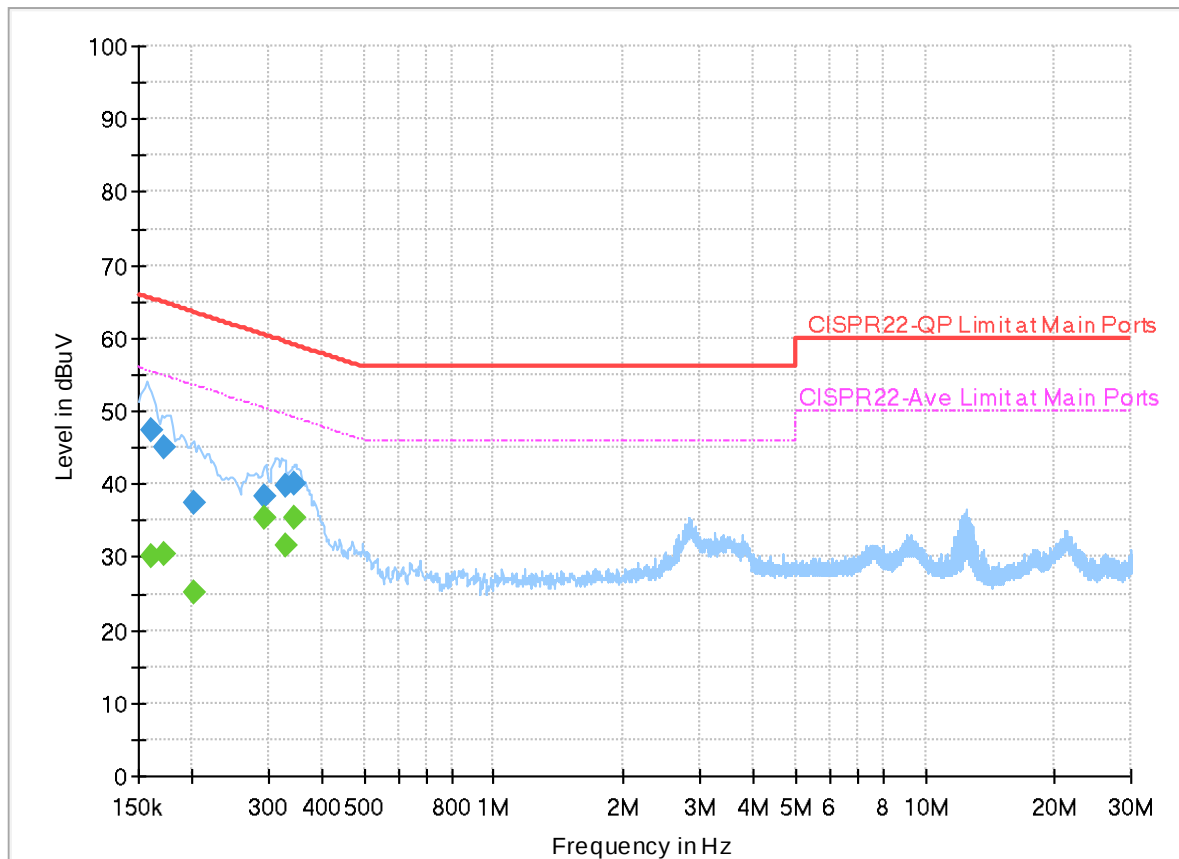
## Appendix B. AC Conducted Emission Test Results

|                 |             |                     |            |
|-----------------|-------------|---------------------|------------|
| Test Engineer : | Louis Chung | Temperature :       | 22.2~23℃   |
|                 |             | Relative Humidity : | 47.9~53.2% |

## EUT Information

Report NO : 3D0631  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Line

Full Spectrum



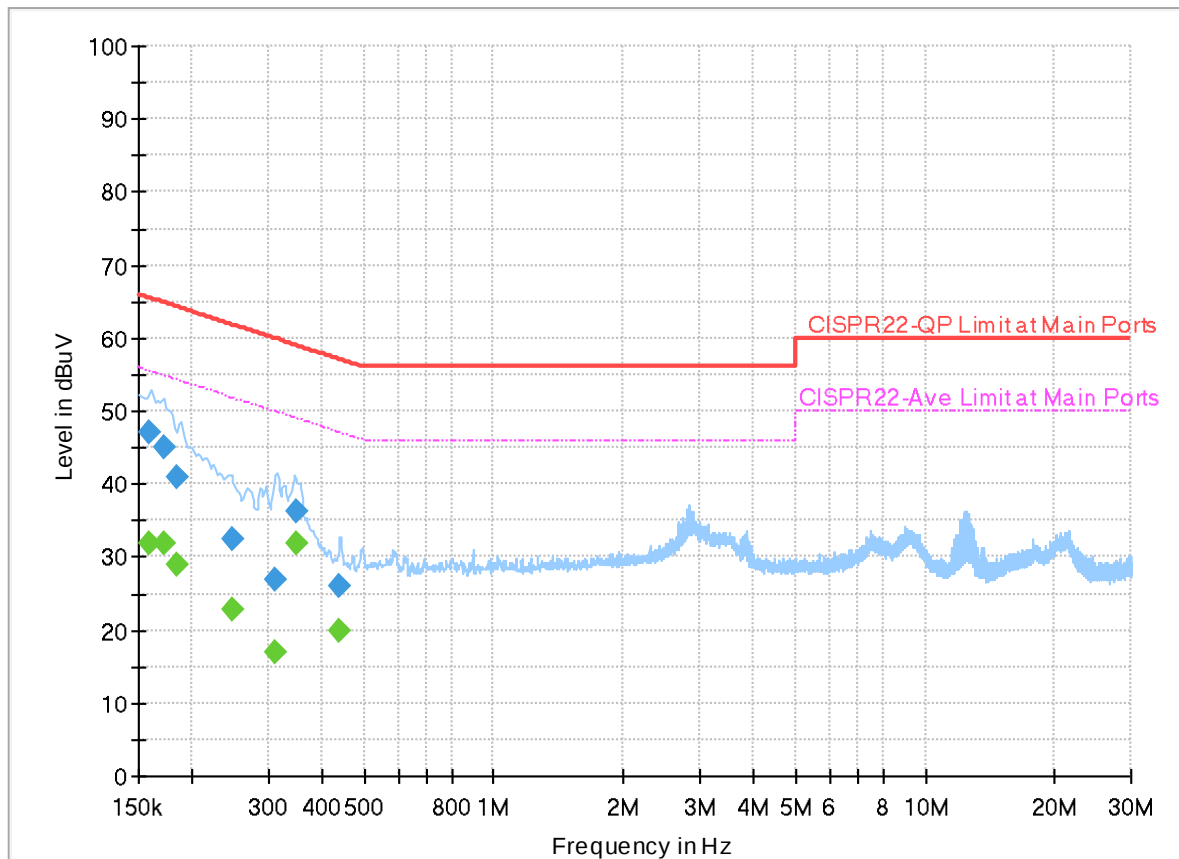
## Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.161160        | ---              | 30.21           | 55.40        | 25.19       | L1   | OFF    | 19.9       |
| 0.161160        | 47.34            | ---             | 65.40        | 18.06       | L1   | OFF    | 19.9       |
| 0.172500        | ---              | 30.41           | 54.84        | 24.43       | L1   | OFF    | 19.9       |
| 0.172500        | 44.93            | ---             | 64.84        | 19.91       | L1   | OFF    | 19.9       |
| 0.201930        | ---              | 25.18           | 53.53        | 28.35       | L1   | OFF    | 19.9       |
| 0.201930        | 37.50            | ---             | 63.53        | 26.03       | L1   | OFF    | 19.9       |
| 0.295170        | ---              | 35.35           | 50.38        | 15.03       | L1   | OFF    | 19.9       |
| 0.295170        | 38.35            | ---             | 60.38        | 22.03       | L1   | OFF    | 19.9       |
| 0.327390        | ---              | 31.57           | 49.52        | 17.95       | L1   | OFF    | 19.9       |
| 0.327390        | 39.89            | ---             | 59.52        | 19.63       | L1   | OFF    | 19.9       |
| 0.344580        | ---              | 35.35           | 49.09        | 13.74       | L1   | OFF    | 19.9       |
| 0.344580        | 39.99            | ---             | 59.09        | 19.10       | L1   | OFF    | 19.9       |

## EUT Information

Report NO : 3D0631  
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) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.158640        | ---              | 31.82           | 55.54        | 23.72       | N    | OFF    | 19.9       |
| 0.158640        | 47.01            | ---             | 65.54        | 18.53       | N    | OFF    | 19.9       |
| 0.172860        | ---              | 31.94           | 54.82        | 22.88       | N    | OFF    | 19.9       |
| 0.172860        | 45.12            | ---             | 64.82        | 19.70       | N    | OFF    | 19.9       |
| 0.183840        | ---              | 28.95           | 54.31        | 25.36       | N    | OFF    | 19.9       |
| 0.183840        | 40.88            | ---             | 64.31        | 23.43       | N    | OFF    | 19.9       |
| 0.247560        | ---              | 22.82           | 51.84        | 29.02       | N    | OFF    | 19.9       |
| 0.247560        | 32.58            | ---             | 61.84        | 29.26       | N    | OFF    | 19.9       |
| 0.310290        | ---              | 16.84           | 49.96        | 33.12       | N    | OFF    | 19.9       |
| 0.310290        | 26.79            | ---             | 59.96        | 33.17       | N    | OFF    | 19.9       |
| 0.349890        | ---              | 31.87           | 48.97        | 17.10       | N    | OFF    | 19.9       |
| 0.349890        | 36.17            | ---             | 58.97        | 22.80       | N    | OFF    | 19.9       |
| 0.438000        | ---              | 19.82           | 47.10        | 27.28       | N    | OFF    | 19.9       |
| 0.438000        | 26.04            | ---             | 57.10        | 31.06       | N    | OFF    | 19.9       |



## Appendix C. Radiated Spurious Emission

|                 |                                           |                     |             |
|-----------------|-------------------------------------------|---------------------|-------------|
| Test Engineer : | Daniel Lee, Quentin Liu, and Bigshow Wang | Temperature :       | 21.4~23.1°C |
|                 |                                           | Relative Humidity : | 51~58%      |

### Band 1 - 5150~5250MHz

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

| WIFI Ant.                   | Note | Frequency | Level      | Margin | Limit Line | Read Level | Antenna Factor | Path Loss | Preampl Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|-----------------------------|------|-----------|------------|--------|------------|------------|----------------|-----------|----------------|---------|-----------|-----------|---------|
| 3+6                         |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )         | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 36<br>5180MHz |      | 5148      | 59.56      | -14.44 | 74         | 54.91      | 32.95          | 8.32      | 36.62          | 100     | 41        | P         | H       |
|                             |      | 5148.2    | 48.11      | -5.89  | 54         | 43.46      | 32.95          | 8.32      | 36.62          | 100     | 41        | A         | H       |
|                             | *    | 5180      | 113.32     | -      | -          | 108.67     | 32.92          | 8.35      | 36.62          | 100     | 41        | P         | H       |
|                             | *    | 5180      | 107.11     | -      | -          | 102.46     | 32.92          | 8.35      | 36.62          | 100     | 41        | A         | H       |
|                             |      |           |            |        |            |            |                |           |                |         |           |           | H       |
|                             |      | 5149.8    | 57.36      | -16.64 | 74         | 52.71      | 32.95          | 8.32      | 36.62          | 269     | 0         | P         | V       |
|                             |      | 5150      | 50.7       | -3.3   | 54         | 46.05      | 32.95          | 8.32      | 36.62          | 269     | 0         | A         | V       |
|                             | *    | 5180      | 114.97     | -      | -          | 110.32     | 32.92          | 8.35      | 36.62          | 269     | 0         | P         | V       |
|                             | *    | 5180      | 104.79     | -      | -          | 100.14     | 32.92          | 8.35      | 36.62          | 269     | 0         | A         | V       |
|                             |      |           |            |        |            |            |                |           |                |         |           |           | V       |
|                             |      |           |            |        |            |            |                |           |                |         |           |           |         |
| 802.11a<br>CH 44<br>5220MHz |      | 5147.43   | 59.09      | -14.91 | 74         | 54.44      | 32.95          | 8.32      | 36.62          | 112     | 50        | P         | H       |
|                             |      | 5147.2    | 50.12      | -3.88  | 54         | 45.47      | 32.95          | 8.32      | 36.62          | 112     | 50        | A         | H       |
|                             | *    | 5220      | 114.4      | -      | -          | 109.75     | 32.88          | 8.38      | 36.61          | 112     | 50        | P         | H       |
|                             | *    | 5220      | 108.63     | -      | -          | 103.98     | 32.88          | 8.38      | 36.61          | 112     | 50        | A         | H       |
|                             |      | 5382      | 53.33      | -20.67 | 74         | 48.68      | 32.8           | 8.44      | 36.59          | 112     | 50        | P         | H       |
|                             |      | 5378.36   | 45.53      | -8.47  | 54         | 40.88      | 32.8           | 8.44      | 36.59          | 112     | 50        | A         | H       |
|                             |      | 5149.5    | 64.96      | -9.04  | 74         | 60.31      | 32.95          | 8.32      | 36.62          | 197     | 345       | P         | V       |
|                             |      | 5149.96   | 52.73      | -1.27  | 54         | 48.08      | 32.95          | 8.32      | 36.62          | 197     | 345       | A         | V       |
|                             | *    | 5220      | 114.89     | -      | -          | 110.24     | 32.88          | 8.38      | 36.61          | 197     | 345       | P         | V       |
|                             | *    | 5220      | 108.36     | -      | -          | 103.71     | 32.88          | 8.38      | 36.61          | 197     | 345       | A         | V       |
|                             |      | 5381.22   | 54.82      | -19.18 | 74         | 50.17      | 32.8           | 8.44      | 36.59          | 197     | 345       | P         | V       |
|                             |      | 5382.26   | 47.29      | -6.71  | 54         | 42.64      | 32.8           | 8.44      | 36.59          | 197     | 345       | A         | V       |



| WIFI<br>Ant.<br>3+6                  | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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>802.11a<br/>CH 48<br/>5240MHz</b> |                                                                                             | 5150                 | 60.59               | -13.41           | 74                          | 55.94                   | 32.95                         | 8.32                   | 36.62                      | 100                  | 52                      | P                     | H             |
|                                      |                                                                                             | 5149                 | 49.13               | -4.87            | 54                          | 44.48                   | 32.95                         | 8.32                   | 36.62                      | 100                  | 52                      | A                     | H             |
|                                      | *                                                                                           | 5240                 | 115.47              | -                | -                           | 110.83                  | 32.86                         | 8.39                   | 36.61                      | 100                  | 52                      | P                     | H             |
|                                      | *                                                                                           | 5240                 | 108.69              | -                | -                           | 104.05                  | 32.86                         | 8.39                   | 36.61                      | 100                  | 52                      | A                     | H             |
|                                      |                                                                                             | 5359.68              | 61.26               | -12.74           | 74                          | 56.63                   | 32.8                          | 8.43                   | 36.6                       | 100                  | 52                      | P                     | H             |
|                                      |                                                                                             | 5350.08              | 48.88               | -5.12            | 54                          | 44.25                   | 32.8                          | 8.43                   | 36.6                       | 100                  | 52                      | A                     | H             |
|                                      |                                                                                             | 5147.75              | 62.09               | -11.91           | 74                          | 57.44                   | 32.95                         | 8.32                   | 36.62                      | 222                  | 0                       | P                     | V             |
|                                      |                                                                                             | 5149.25              | 52.07               | -1.93            | 54                          | 47.42                   | 32.95                         | 8.32                   | 36.62                      | 222                  | 0                       | A                     | V             |
|                                      | *                                                                                           | 5240                 | 115.63              | -                | -                           | 110.99                  | 32.86                         | 8.39                   | 36.61                      | 222                  | 0                       | P                     | V             |
|                                      | *                                                                                           | 5240                 | 108.63              | -                | -                           | 103.99                  | 32.86                         | 8.39                   | 36.61                      | 222                  | 0                       | A                     | V             |
|                                      |                                                                                             | 5364.96              | 62.07               | -11.93           | 74                          | 57.43                   | 32.8                          | 8.44                   | 36.6                       | 222                  | 0                       | P                     | V             |
|                                      |                                                                                             | 5350.08              | 50.85               | -3.15            | 54                          | 46.22                   | 32.8                          | 8.43                   | 36.6                       | 222                  | 0                       | A                     | V             |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>3+6         | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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) |
|-----------------------------|------|----------------------|---------------------|------------------|-----------------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 36<br>5180MHz |      | 10360                | 52.47               | -15.73           | 68.2                        | 59.31                   | 38.54                         | 12.48                  | 57.86                      | 100                  | 353                     | P                     | H             |
|                             |      | 15540                | 47.39               | -26.61           | 74                          | 50.61                   | 38.28                         | 15.82                  | 57.32                      | -                    | -                       | P                     | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      | 10360                | 56.26               | -11.94           | 68.2                        | 63.1                    | 38.54                         | 12.48                  | 57.86                      | 298                  | 194                     | P                     | V             |
|                             |      | 15540                | 47.4                | -26.6            | 74                          | 50.62                   | 38.28                         | 15.82                  | 57.32                      | -                    | -                       | P                     | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |



| WIFI<br>Ant.<br>3+6         | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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) |
|-----------------------------|------|----------------------|---------------------|------------------|-----------------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 44<br>5220MHz |      | 10440                | 53.22               | -14.98           | 68.2                        | 59.93                   | 38.58                         | 12.53                  | 57.82                      | 204                  | 2                       | P                     | H             |
|                             |      | 15660                | 48.88               | -25.12           | 74                          | 52.25                   | 38.08                         | 15.91                  | 57.36                      | 213                  | 67                      | P                     | H             |
|                             |      | 15660                | 41.88               | -12.12           | 54                          | 45.25                   | 38.08                         | 15.91                  | 57.36                      | 213                  | 67                      | A                     | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                             |      | 10440                | 55.94               | -12.26           | 68.2                        | 62.65                   | 38.58                         | 12.53                  | 57.82                      | 100                  | 11                      | P                     | V             |
|                             |      | 15660                | 49.74               | -24.26           | 74                          | 53.11                   | 38.08                         | 15.91                  | 57.36                      | 121                  | 84                      | P                     | V             |
|                             |      | 15660                | 42.65               | -11.35           | 54                          | 46.02                   | 38.08                         | 15.91                  | 57.36                      | 121                  | 84                      | A                     | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                             |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |



| WIFI<br>Ant.<br>3+6                  | Note                                                                                                                                                                                                                                   | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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>802.11a<br/>CH 48<br/>5240MHz</b> |                                                                                                                                                                                                                                        | 10480                | 54.24               | -13.96           | 68.2                        | 60.91                   | 38.59                         | 12.55                  | 57.81                      | 298                  | 332                     | P                     | H             |
|                                      |                                                                                                                                                                                                                                        | 15720                | 51.91               | -22.09           | 74                          | 55.36                   | 37.98                         | 15.96                  | 57.39                      | 100                  | 27                      | P                     | H             |
|                                      |                                                                                                                                                                                                                                        | 15720                | 45.86               | -8.14            | 54                          | 49.31                   | 37.98                         | 15.96                  | 57.39                      | 100                  | 27                      | A                     | H             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                      |                                                                                                                                                                                                                                        | 10480                | 59.58               | -8.62            | 68.2                        | 66.25                   | 38.59                         | 12.55                  | 57.81                      | 100                  | 226                     | P                     | V             |
|                                      |                                                                                                                                                                                                                                        | 15720                | 48.84               | -25.16           | 74                          | 52.29                   | 37.98                         | 15.96                  | 57.39                      | 286                  | 91                      | P                     | V             |
|                                      |                                                                                                                                                                                                                                        | 15720                | 44.2                | -9.8             | 54                          | 47.65                   | 37.98                         | 15.96                  | 57.39                      | 286                  | 91                      | A                     | V             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       |               |
|                                      |                                                                                                                                                                                                                                        |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

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

| WIFI<br>Ant.<br>3+6                 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 36<br>5180MHz |                                                                                             | 5148.6               | 59.28               | -14.72           | 74                          | 54.63                     | 32.95                         | 8.32                   | 36.62                      | 307                  | 52                      | P                       | H               |
|                                     |                                                                                             | 5148.4               | 50.56               | -3.44            | 54                          | 45.91                     | 32.95                         | 8.32                   | 36.62                      | 307                  | 52                      | A                       | H               |
|                                     | *                                                                                           | 5180                 | 113.09              | -                | -                           | 108.44                    | 32.92                         | 8.35                   | 36.62                      | 307                  | 52                      | P                       | H               |
|                                     | *                                                                                           | 5180                 | 106.77              | -                | -                           | 102.12                    | 32.92                         | 8.35                   | 36.62                      | 307                  | 52                      | A                       | H               |
|                                     |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 5147.4               | 60.46               | -13.54           | 74                          | 55.81                     | 32.95                         | 8.32                   | 36.62                      | 243                  | 10                      | P                       | V               |
|                                     |                                                                                             | 5148.2               | 52.39               | -1.61            | 54                          | 47.74                     | 32.95                         | 8.32                   | 36.62                      | 243                  | 10                      | A                       | V               |
|                                     | *                                                                                           | 5180                 | 114.29              | -                | -                           | 109.64                    | 32.92                         | 8.35                   | 36.62                      | 243                  | 10                      | P                       | V               |
|                                     | *                                                                                           | 5180                 | 107.37              | -                | -                           | 102.72                    | 32.92                         | 8.35                   | 36.62                      | 243                  | 10                      | A                       | V               |
|                                     |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |                                                                                             | 5149.25              | 61.2                | -12.8            | 74                          | 56.55                     | 32.95                         | 8.32                   | 36.62                      | 100                  | 42                      | P                       | H               |
|                                     |                                                                                             | 5149.5               | 48.98               | -5.02            | 54                          | 44.33                     | 32.95                         | 8.32                   | 36.62                      | 100                  | 42                      | A                       | H               |
|                                     | *                                                                                           | 5240                 | 114.72              | -                | -                           | 110.08                    | 32.86                         | 8.39                   | 36.61                      | 100                  | 42                      | P                       | H               |
|                                     | *                                                                                           | 5240                 | 108.09              | -                | -                           | 103.45                    | 32.86                         | 8.39                   | 36.61                      | 100                  | 42                      | A                       | H               |
|                                     |                                                                                             | 5354.88              | 61.59               | -12.41           | 74                          | 56.96                     | 32.8                          | 8.43                   | 36.6                       | 100                  | 42                      | P                       | H               |
|                                     |                                                                                             | 5352                 | 49.93               | -4.07            | 54                          | 45.3                      | 32.8                          | 8.43                   | 36.6                       | 100                  | 42                      | A                       | H               |
|                                     |                                                                                             | 5140                 | 61.8                | -12.2            | 74                          | 57.15                     | 32.96                         | 8.31                   | 36.62                      | 303                  | 11                      | P                       | V               |
|                                     |                                                                                             | 5150                 | 52.32               | -1.68            | 54                          | 47.67                     | 32.95                         | 8.32                   | 36.62                      | 303                  | 11                      | A                       | V               |
|                                     | *                                                                                           | 5240                 | 116.1               | -                | -                           | 111.46                    | 32.86                         | 8.39                   | 36.61                      | 303                  | 11                      | P                       | V               |
|                                     | *                                                                                           | 5240                 | 108.17              | -                | -                           | 103.53                    | 32.86                         | 8.39                   | 36.61                      | 303                  | 11                      | A                       | V               |
|                                     |                                                                                             | 5353.2               | 65.51               | -8.49            | 74                          | 60.88                     | 32.8                          | 8.43                   | 36.6                       | 303                  | 11                      | P                       | V               |
|                                     |                                                                                             | 5351.52              | 52.8                | -1.2             | 54                          | 48.17                     | 32.8                          | 8.43                   | 36.6                       | 303                  | 11                      | A                       | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |



**Band 1 5150~5250MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>3+6                 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 48<br>5240MHz |                                                                                             | 10480                | 56.45               | -11.75           | 68.2                        | 63.12                   | 38.59                         | 12.55                  | 57.81                      | 100                  | 230                     | P                     | H             |
|                                     |                                                                                             | 15720                | 56.77               | -17.23           | 74                          | 60.22                   | 37.98                         | 15.96                  | 57.39                      | 100                  | 28                      | P                     | H             |
|                                     |                                                                                             | 15720                | 46.67               | -7.33            | 54                          | 50.12                   | 37.98                         | 15.96                  | 57.39                      | 100                  | 28                      | A                     | H             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             | 10480                | 52.13               | -16.07           | 68.2                        | 58.8                    | 38.59                         | 12.55                  | 57.81                      | 341                  | 329                     | P                     | V             |
|                                     |                                                                                             | 15720                | 53.02               | -20.98           | 74                          | 56.47                   | 37.98                         | 15.96                  | 57.39                      | 100                  | 37                      | P                     | V             |
|                                     |                                                                                             | 15720                | 43.86               | -10.14           | 54                          | 47.31                   | 37.98                         | 15.96                  | 57.39                      | 100                  | 37                      | A                     | V             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>3+6                 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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>HT40<br>CH 38<br>5190MHz |                                                                                             | 5147.62              | 57.85               | -16.15           | 74                          | 53.2                      | 32.95                         | 8.32                   | 36.62                      | 100                  | 45                      | P                       | H               |
|                                     |                                                                                             | 5148.06              | 49.8                | -4.2             | 54                          | 45.15                     | 32.95                         | 8.32                   | 36.62                      | 100                  | 45                      | A                       | H               |
|                                     | *                                                                                           | 5190                 | 108.42              | -                | -                           | 103.77                    | 32.91                         | 8.36                   | 36.62                      | 100                  | 45                      | P                       | H               |
|                                     | *                                                                                           | 5190                 | 102.87              | -                | -                           | 98.22                     | 32.91                         | 8.36                   | 36.62                      | 100                  | 45                      | A                       | H               |
|                                     |                                                                                             | 5351.1               | 49.73               | -24.27           | 74                          | 45.1                      | 32.8                          | 8.43                   | 36.6                       | 100                  | 45                      | P                       | H               |
|                                     |                                                                                             | 5350.8               | 42.15               | -11.85           | 54                          | 37.52                     | 32.8                          | 8.43                   | 36.6                       | 100                  | 45                      | A                       | H               |
|                                     |                                                                                             | 5149.38              | 60.6                | -13.4            | 74                          | 55.95                     | 32.95                         | 8.32                   | 36.62                      | 277                  | 0                       | P                       | V               |
|                                     |                                                                                             | 5150                 | 52.11               | -1.89            | 54                          | 47.46                     | 32.95                         | 8.32                   | 36.62                      | 277                  | 0                       | A                       | V               |
|                                     | *                                                                                           | 5190                 | 110.46              | -                | -                           | 105.81                    | 32.91                         | 8.36                   | 36.62                      | 277                  | 0                       | P                       | V               |
|                                     | *                                                                                           | 5190                 | 104.17              | -                | -                           | 99.52                     | 32.91                         | 8.36                   | 36.62                      | 277                  | 0                       | A                       | V               |
|                                     |                                                                                             | 5352                 | 50.09               | -23.91           | 74                          | 45.46                     | 32.8                          | 8.43                   | 36.6                       | 277                  | 0                       | P                       | V               |
|                                     |                                                                                             | 5351.1               | 43.35               | -10.65           | 54                          | 38.72                     | 32.8                          | 8.43                   | 36.6                       | 277                  | 0                       | A                       | V               |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |                                                                                             | 5142.22              | 61.32               | -12.68           | 74                          | 56.66                     | 32.96                         | 8.32                   | 36.62                      | 100                  | 47                      | P                       | H               |
|                                     |                                                                                             | 5145.86              | 49.42               | -4.58            | 54                          | 44.77                     | 32.95                         | 8.32                   | 36.62                      | 100                  | 47                      | A                       | H               |
|                                     | *                                                                                           | 5230                 | 110.81              | -                | -                           | 106.17                    | 32.87                         | 8.38                   | 36.61                      | 100                  | 47                      | P                       | H               |
|                                     | *                                                                                           | 5230                 | 104.63              | -                | -                           | 99.99                     | 32.87                         | 8.38                   | 36.61                      | 100                  | 47                      | A                       | H               |
|                                     |                                                                                             | 5352.62              | 57.2                | -16.8            | 74                          | 52.57                     | 32.8                          | 8.43                   | 36.6                       | 100                  | 47                      | P                       | H               |
|                                     |                                                                                             | 5389.02              | 42.6                | -11.4            | 54                          | 37.94                     | 32.8                          | 8.45                   | 36.59                      | 100                  | 47                      | A                       | H               |
|                                     |                                                                                             | 5148.98              | 64.71               | -9.29            | 74                          | 60.06                     | 32.95                         | 8.32                   | 36.62                      | 221                  | 11                      | P                       | V               |
|                                     |                                                                                             | 5149.5               | 52.18               | -1.82            | 54                          | 47.53                     | 32.95                         | 8.32                   | 36.62                      | 221                  | 11                      | A                       | V               |
|                                     | *                                                                                           | 5230                 | 111.77              | -                | -                           | 107.13                    | 32.87                         | 8.38                   | 36.61                      | 221                  | 11                      | P                       | V               |
|                                     | *                                                                                           | 5230                 | 105.54              | -                | -                           | 100.9                     | 32.87                         | 8.38                   | 36.61                      | 221                  | 11                      | A                       | V               |
|                                     |                                                                                             | 5354.7               | 57.19               | -16.81           | 74                          | 52.56                     | 32.8                          | 8.43                   | 36.6                       | 221                  | 11                      | P                       | V               |
|                                     |                                                                                             | 5350.02              | 44.55               | -9.45            | 54                          | 39.92                     | 32.8                          | 8.43                   | 36.6                       | 221                  | 11                      | A                       | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>3+6                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 36<br>5180MHz |                                                                                             | 5148.8               | 59.8                | -14.2            | 74                          | 55.15                     | 32.95                         | 8.32                   | 36.62                      | 287                  | 52                      | P                       | H               |
|                                       |                                                                                             | 5148.4               | 51.6                | -2.4             | 54                          | 46.95                     | 32.95                         | 8.32                   | 36.62                      | 287                  | 52                      | A                       | H               |
|                                       | *                                                                                           | 5180                 | 113.28              | -                | -                           | 108.63                    | 32.92                         | 8.35                   | 36.62                      | 287                  | 52                      | P                       | H               |
|                                       | *                                                                                           | 5180                 | 106.91              | -                | -                           | 102.26                    | 32.92                         | 8.35                   | 36.62                      | 287                  | 52                      | A                       | H               |
|                                       |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 5150                 | 60.87               | -13.13           | 74                          | 56.22                     | 32.95                         | 8.32                   | 36.62                      | 241                  | 0                       | P                       | V               |
|                                       |                                                                                             | 5150                 | 52.56               | -1.44            | 54                          | 47.91                     | 32.95                         | 8.32                   | 36.62                      | 241                  | 0                       | A                       | V               |
|                                       | *                                                                                           | 5180                 | 114.26              | -                | -                           | 109.61                    | 32.92                         | 8.35                   | 36.62                      | 241                  | 0                       | P                       | V               |
|                                       | *                                                                                           | 5180                 | 107.24              | -                | -                           | 102.59                    | 32.92                         | 8.35                   | 36.62                      | 241                  | 0                       | A                       | V               |
|                                       |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 48<br>5240MHz |                                                                                             | 5140.75              | 49.69               | -24.31           | 74                          | 45.04                     | 32.96                         | 8.31                   | 36.62                      | 251                  | 30                      | P                       | H               |
|                                       |                                                                                             | 5148.25              | 40.54               | -13.46           | 54                          | 35.89                     | 32.95                         | 8.32                   | 36.62                      | 251                  | 30                      | A                       | H               |
|                                       | *                                                                                           | 5240                 | 113.08              | -                | -                           | 108.44                    | 32.86                         | 8.39                   | 36.61                      | 251                  | 30                      | P                       | H               |
|                                       | *                                                                                           | 5240                 | 106.92              | -                | -                           | 102.28                    | 32.86                         | 8.39                   | 36.61                      | 251                  | 30                      | A                       | H               |
|                                       |                                                                                             | 5355.84              | 56.11               | -17.89           | 74                          | 51.48                     | 32.8                          | 8.43                   | 36.6                       | 251                  | 30                      | P                       | H               |
|                                       |                                                                                             | 5401.92              | 47.1                | -6.9             | 54                          | 42.44                     | 32.8                          | 8.45                   | 36.59                      | 251                  | 30                      | A                       | H               |
|                                       |                                                                                             | 5142                 | 57.36               | -16.64           | 74                          | 52.71                     | 32.96                         | 8.31                   | 36.62                      | 337                  | 360                     | P                       | V               |
|                                       |                                                                                             | 5080.75              | 45.42               | -8.58            | 54                          | 40.75                     | 33.04                         | 8.26                   | 36.63                      | 337                  | 360                     | A                       | V               |
|                                       | *                                                                                           | 5240                 | 114.2               | -                | -                           | 109.56                    | 32.86                         | 8.39                   | 36.61                      | 337                  | 360                     | P                       | V               |
|                                       | *                                                                                           | 5240                 | 108.14              | -                | -                           | 103.5                     | 32.86                         | 8.39                   | 36.61                      | 337                  | 360                     | A                       | V               |
|                                       |                                                                                             | 5351.52              | 62.08               | -11.92           | 74                          | 57.45                     | 32.8                          | 8.43                   | 36.6                       | 337                  | 360                     | P                       | V               |
|                                       |                                                                                             | 5402.16              | 47.85               | -6.15            | 54                          | 43.19                     | 32.8                          | 8.45                   | 36.59                      | 337                  | 360                     | A                       | V               |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |

## Band 1 5150~5250MHz

### WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI                                              | Note | Frequency | Level      | Margin | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|---------------------------------------------------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                                              |      | ( MHz )   | ( dBμV/m ) | ( dB ) | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 3+6                                               |      |           |            |        | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac<br><br>VHT20<br><br>CH 48<br><br>5240MHz |      | 10480     | 57.24      | -10.96 | 68.2       | 63.91  | 38.59    | 12.55  | 57.81  | 100    | 226     | P     | H     |
|                                                   |      | 15720     | 56.57      | -17.43 | 74         | 60.02  | 37.98    | 15.96  | 57.39  | 100    | 26      | P     | H     |
|                                                   |      | 15720     | 46.96      | -7.04  | 54         | 50.41  | 37.98    | 15.96  | 57.39  | 100    | 26      | A     | H     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                                   |      | 10480     | 54.28      | -13.92 | 68.2       | 60.95  | 38.59    | 12.55  | 57.81  | 344    | 138     | P     | V     |
|                                                   |      | 15720     | 53.33      | -20.67 | 74         | 56.78  | 37.98    | 15.96  | 57.39  | 297    | 90      | P     | V     |
|                                                   |      | 15720     | 44.61      | -9.39  | 54         | 48.06  | 37.98    | 15.96  | 57.39  | 297    | 90      | A     | V     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                                   |      |           |            |        |            |        | </       |        |        |        |         |       |       |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>3+6                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 38<br>5190MHz |                                                                                             | 5146.96              | 58.87               | -15.13           | 74                          | 54.22                     | 32.95                         | 8.32                   | 36.62                      | 100                  | 50                      | P                       | H               |
|                                       |                                                                                             | 5148.94              | 49.34               | -4.66            | 54                          | 44.69                     | 32.95                         | 8.32                   | 36.62                      | 100                  | 50                      | A                       | H               |
|                                       | *                                                                                           | 5190                 | 108.88              | -                | -                           | 104.23                    | 32.91                         | 8.36                   | 36.62                      | 100                  | 50                      | P                       | H               |
|                                       | *                                                                                           | 5190                 | 103.18              | -                | -                           | 98.53                     | 32.91                         | 8.36                   | 36.62                      | 100                  | 50                      | A                       | H               |
|                                       |                                                                                             | 5356.5               | 48.29               | -25.71           | 74                          | 43.66                     | 32.8                          | 8.43                   | 36.6                       | 100                  | 50                      | P                       | H               |
|                                       |                                                                                             | 5351.4               | 41.61               | -12.39           | 54                          | 36.98                     | 32.8                          | 8.43                   | 36.6                       | 100                  | 50                      | A                       | H               |
|                                       |                                                                                             | 5146.52              | 60.19               | -13.81           | 74                          | 55.54                     | 32.95                         | 8.32                   | 36.62                      | 300                  | 354                     | P                       | V               |
|                                       |                                                                                             | 5150                 | 51.54               | -2.46            | 54                          | 46.89                     | 32.95                         | 8.32                   | 36.62                      | 300                  | 354                     | A                       | V               |
|                                       | *                                                                                           | 5190                 | 110.65              | -                | -                           | 106                       | 32.91                         | 8.36                   | 36.62                      | 300                  | 354                     | P                       | V               |
|                                       | *                                                                                           | 5190                 | 104.4               | -                | -                           | 99.75                     | 32.91                         | 8.36                   | 36.62                      | 300                  | 354                     | A                       | V               |
|                                       |                                                                                             | 5356.2               | 50.05               | -23.95           | 74                          | 45.42                     | 32.8                          | 8.43                   | 36.6                       | 300                  | 354                     | P                       | V               |
|                                       |                                                                                             | 5351.4               | 42.94               | -11.06           | 54                          | 38.31                     | 32.8                          | 8.43                   | 36.6                       | 300                  | 354                     | A                       | V               |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz |                                                                                             | 5150.02              | 59.97               | -90.03           | 150                         | 55.32                     | 32.95                         | 8.32                   | 36.62                      | 204                  | 44                      | P                       | H               |
|                                       |                                                                                             | 5148.98              | 48.46               | -5.54            | 54                          | 43.81                     | 32.95                         | 8.32                   | 36.62                      | 204                  | 44                      | A                       | H               |
|                                       | *                                                                                           | 5230                 | 111.91              | -                | -                           | 107.27                    | 32.87                         | 8.38                   | 36.61                      | 204                  | 44                      | P                       | H               |
|                                       | *                                                                                           | 5230                 | 104.91              | -                | -                           | 100.27                    | 32.87                         | 8.38                   | 36.61                      | 204                  | 44                      | A                       | H               |
|                                       |                                                                                             | 5350.54              | 55.29               | -18.71           | 74                          | 50.66                     | 32.8                          | 8.43                   | 36.6                       | 204                  | 44                      | P                       | H               |
|                                       |                                                                                             | 5350.28              | 43.57               | -10.43           | 54                          | 38.94                     | 32.8                          | 8.43                   | 36.6                       | 204                  | 44                      | A                       | H               |
|                                       |                                                                                             | 5126.62              | 64.51               | -9.49            | 74                          | 59.86                     | 32.97                         | 8.3                    | 36.62                      | 248                  | 11                      | P                       | V               |
|                                       |                                                                                             | 5148.98              | 50.42               | -3.58            | 54                          | 45.77                     | 32.95                         | 8.32                   | 36.62                      | 248                  | 11                      | A                       | V               |
|                                       | *                                                                                           | 5230                 | 112.36              | -                | -                           | 107.72                    | 32.87                         | 8.38                   | 36.61                      | 248                  | 11                      | P                       | V               |
|                                       | *                                                                                           | 5230                 | 105.66              | -                | -                           | 101.02                    | 32.87                         | 8.38                   | 36.61                      | 248                  | 11                      | A                       | V               |
|                                       |                                                                                             | 5350.28              | 54.81               | -19.19           | 74                          | 50.18                     | 32.8                          | 8.43                   | 36.6                       | 248                  | 11                      | P                       | V               |
|                                       |                                                                                             | 5350.02              | 43.8                | -10.2            | 54                          | 39.17                     | 32.8                          | 8.43                   | 36.6                       | 248                  | 11                      | A                       | V               |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI<br>Ant.<br>3+6                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|------------------|-----------------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                             | 5146.64              | 60.71               | -13.29           | 74                          | 56.06                   | 32.95                         | 8.32                   | 36.62                      | 100                  | 51                      | P                     | H             |
|                                       |                                                                                             | 5145.6               | 51.16               | -2.84            | 54                          | 46.51                   | 32.95                         | 8.32                   | 36.62                      | 100                  | 51                      | A                     | H             |
|                                       | *                                                                                           | 5210                 | 102.73              | -                | -                           | 98.08                   | 32.89                         | 8.37                   | 36.61                      | 100                  | 51                      | P                     | H             |
|                                       | *                                                                                           | 5210                 | 96.4                | -                | -                           | 91.75                   | 32.89                         | 8.37                   | 36.61                      | 100                  | 51                      | A                     | H             |
|                                       |                                                                                             | 5370                 | 47.81               | -26.19           | 74                          | 43.17                   | 32.8                          | 8.44                   | 36.6                       | 100                  | 51                      | P                     | H             |
|                                       |                                                                                             | 5361                 | 38.73               | -15.27           | 54                          | 34.1                    | 32.8                          | 8.43                   | 36.6                       | 100                  | 51                      | A                     | H             |
|                                       |                                                                                             | 5141.7               | 59.99               | -14.01           | 74                          | 55.34                   | 32.96                         | 8.31                   | 36.62                      | 287                  | 0                       | P                     | V             |
|                                       |                                                                                             | 5149.76              | 52.33               | -1.67            | 54                          | 47.68                   | 32.95                         | 8.32                   | 36.62                      | 287                  | 0                       | A                     | V             |
|                                       | *                                                                                           | 5210                 | 104.13              | -                | -                           | 99.48                   | 32.89                         | 8.37                   | 36.61                      | 287                  | 0                       | P                     | V             |
|                                       | *                                                                                           | 5210                 | 97.05               | -                | -                           | 92.4                    | 32.89                         | 8.37                   | 36.61                      | 287                  | 0                       | A                     | V             |
|                                       |                                                                                             | 5350.8               | 48.66               | -25.34           | 74                          | 44.03                   | 32.8                          | 8.43                   | 36.6                       | 287                  | 0                       | P                     | V             |
|                                       |                                                                                             | 5351.1               | 40.16               | -13.84           | 54                          | 35.53                   | 32.8                          | 8.43                   | 36.6                       | 287                  | 0                       | A                     | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11ax HE20 Full (Band Edge @ 3m)

| WIFI<br>Ant.<br>3+6                       | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|-------------------------------------------|------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ax<br>HE20 Full<br>CH 36<br>5180MHz |      | 5145                 | 60.88               | -13.12           | 74                          | 56.22                     | 32.96                         | 8.32                   | 36.62                      | 100                  | 53                      | P                       | H               |
|                                           |      | 5150                 | 51.46               | -2.54            | 54                          | 46.81                     | 32.95                         | 8.32                   | 36.62                      | 100                  | 53                      | A                       | H               |
|                                           | *    | 5180                 | 113.06              | -                | -                           | 108.41                    | 32.92                         | 8.35                   | 36.62                      | 100                  | 53                      | P                       | H               |
|                                           | *    | 5180                 | 106.48              | -                | -                           | 101.83                    | 32.92                         | 8.35                   | 36.62                      | 100                  | 53                      | A                       | H               |
|                                           |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                           |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                           |      | 5145.8               | 59.26               | -14.74           | 74                          | 54.61                     | 32.95                         | 8.32                   | 36.62                      | 308                  | 358                     | P                       | V               |
|                                           |      | 5150                 | 52.25               | -1.75            | 54                          | 47.6                      | 32.95                         | 8.32                   | 36.62                      | 308                  | 358                     | A                       | V               |
|                                           | *    | 5180                 | 114.06              | -                | -                           | 109.41                    | 32.92                         | 8.35                   | 36.62                      | 308                  | 358                     | P                       | V               |
|                                           | *    | 5180                 | 106.48              | -                | -                           | 101.83                    | 32.92                         | 8.35                   | 36.62                      | 308                  | 358                     | A                       | V               |
|                                           |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                           |      |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11ax<br>HE20 Full<br>CH 44<br>5220MHz |      | 5148.81              | 58.05               | -15.95           | 74                          | 53.4                      | 32.95                         | 8.32                   | 36.62                      | 100                  | 50                      | P                       | H               |
|                                           |      | 5148.81              | 50.34               | -3.66            | 54                          | 45.69                     | 32.95                         | 8.32                   | 36.62                      | 100                  | 50                      | A                       | H               |
|                                           | *    | 5220                 | 114.83              | -                | -                           | 110.18                    | 32.88                         | 8.38                   | 36.61                      | 100                  | 50                      | P                       | H               |
|                                           | *    | 5220                 | 107.64              | -                | -                           | 102.99                    | 32.88                         | 8.38                   | 36.61                      | 100                  | 50                      | A                       | H               |
|                                           |      | 5382                 | 51.8                | -22.2            | 74                          | 47.15                     | 32.8                          | 8.44                   | 36.59                      | 100                  | 50                      | P                       | H               |
|                                           |      | 5381.74              | 44.97               | -9.03            | 54                          | 40.32                     | 32.8                          | 8.44                   | 36.59                      | 100                  | 50                      | A                       | H               |
|                                           |      | 5146.05              | 60.45               | -13.55           | 74                          | 55.8                      | 32.95                         | 8.32                   | 36.62                      | 318                  | 9                       | P                       | V               |
|                                           |      | 5148.12              | 52.02               | -1.98            | 54                          | 47.37                     | 32.95                         | 8.32                   | 36.62                      | 318                  | 9                       | A                       | V               |
|                                           | *    | 5220                 | 114.76              | -                | -                           | 110.11                    | 32.88                         | 8.38                   | 36.61                      | 318                  | 9                       | P                       | V               |
|                                           | *    | 5220                 | 106.8               | -                | -                           | 102.15                    | 32.88                         | 8.38                   | 36.61                      | 318                  | 9                       | A                       | V               |
|                                           |      | 5373.42              | 54.06               | -19.94           | 74                          | 49.42                     | 32.8                          | 8.44                   | 36.6                       | 318                  | 9                       | P                       | V               |
|                                           |      | 5378.36              | 45.31               | -8.69            | 54                          | 40.66                     | 32.8                          | 8.44                   | 36.59                      | 318                  | 9                       | A                       | V               |



| WIFI<br>Ant.<br>3+6                                                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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>802.11ax</b><br><b>HE20 Full</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5148.25              | 57.86               | -16.14           | 74                          | 53.21                   | 32.95                         | 8.32                   | 36.62                      | 100                  | 52                      | P                     | H             |
|                                                                       |                                                                                             | 5150                 | 46.72               | -7.28            | 54                          | 42.07                   | 32.95                         | 8.32                   | 36.62                      | 100                  | 52                      | A                     | H             |
|                                                                       | *                                                                                           | 5240                 | 115.62              | -                | -                           | 110.98                  | 32.86                         | 8.39                   | 36.61                      | 100                  | 52                      | P                     | H             |
|                                                                       | *                                                                                           | 5240                 | 107.85              | -                | -                           | 103.21                  | 32.86                         | 8.39                   | 36.61                      | 100                  | 52                      | A                     | H             |
|                                                                       |                                                                                             | 5353.68              | 58.56               | -15.44           | 74                          | 53.93                   | 32.8                          | 8.43                   | 36.6                       | 100                  | 52                      | P                     | H             |
|                                                                       |                                                                                             | 5350.08              | 46.57               | -7.43            | 54                          | 41.94                   | 32.8                          | 8.43                   | 36.6                       | 100                  | 52                      | A                     | H             |
|                                                                       |                                                                                             | 5147.75              | 59.95               | -14.05           | 74                          | 55.3                    | 32.95                         | 8.32                   | 36.62                      | 305                  | 358                     | P                     | V             |
|                                                                       |                                                                                             | 5149.75              | 48.15               | -5.85            | 54                          | 43.5                    | 32.95                         | 8.32                   | 36.62                      | 305                  | 358                     | A                     | V             |
|                                                                       | *                                                                                           | 5240                 | 115.06              | -                | -                           | 110.42                  | 32.86                         | 8.39                   | 36.61                      | 305                  | 358                     | P                     | V             |
|                                                                       | *                                                                                           | 5240                 | 108.02              | -                | -                           | 103.38                  | 32.86                         | 8.39                   | 36.61                      | 305                  | 358                     | A                     | V             |
|                                                                       |                                                                                             | 5352.72              | 60.31               | -13.69           | 74                          | 55.68                   | 32.8                          | 8.43                   | 36.6                       | 305                  | 358                     | P                     | V             |
|                                                                       |                                                                                             | 5350.08              | 48.82               | -5.18            | 54                          | 44.19                   | 32.8                          | 8.43                   | 36.6                       | 305                  | 358                     | A                     | V             |
| Remark                                                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       |               |

## Band 1 5150~5250MHz

## WIFI 802.11ax HE20 Full (Harmonic @ 3m)

[illegible]



| WIFI<br>Ant.<br>3+6                                                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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>802.11ax</b><br><b>HE20 Full</b><br><b>CH 44</b><br><b>5220MHz</b> |      | 10440                | 51.51               | -16.69           | 68.2                        | 58.22                   | 38.58                         | 12.53                  | 57.82                      | -                    | -                       | P                     | H             |
|                                                                       |      | 15660                | 47                  | -27              | 74                          | 50.37                   | 38.08                         | 15.91                  | 57.36                      | -                    | -                       | P                     | H             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                                                       |      | 10440                | 53.74               | -14.46           | 68.2                        | 60.45                   | 38.58                         | 12.53                  | 57.82                      | -                    | -                       | P                     | V             |
|                                                                       |      | 15660                | 47.56               | -26.44           | 74                          | 50.93                   | 38.08                         | 15.91                  | 57.36                      | -                    | -                       | P                     | V             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                                                       |      |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       | V             |

[illegible]



## Band 1 5150~5250MHz

## WIFI 802.11ax HE40 Full (Band Edge @ 3m)

| WIFI<br>Ant.<br>3+6                       | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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 ) |
|-------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ax<br>HE40 Full<br>CH 38<br>5190MHz |                                                                                             | 5136.18              | 59.06               | -14.94           | 74                          | 54.41                     | 32.96                         | 8.31                   | 36.62                      | 100                  | 49                      | P                       | H               |
|                                           |                                                                                             | 5149.38              | 49.76               | -4.24            | 54                          | 45.11                     | 32.95                         | 8.32                   | 36.62                      | 100                  | 49                      | A                       | H               |
|                                           | *                                                                                           | 5190                 | 108.92              | -                | -                           | 104.27                    | 32.91                         | 8.36                   | 36.62                      | 100                  | 49                      | P                       | H               |
|                                           | *                                                                                           | 5190                 | 102.49              | -                | -                           | 97.84                     | 32.91                         | 8.36                   | 36.62                      | 100                  | 49                      | A                       | H               |
|                                           |                                                                                             | 5352.6               | 49.41               | -24.59           | 74                          | 44.78                     | 32.8                          | 8.43                   | 36.6                       | 100                  | 49                      | P                       | H               |
|                                           |                                                                                             | 5352                 | 41.76               | -12.24           | 54                          | 37.13                     | 32.8                          | 8.43                   | 36.6                       | 100                  | 49                      | A                       | H               |
|                                           |                                                                                             | 5149.16              | 59.31               | -14.69           | 74                          | 54.66                     | 32.95                         | 8.32                   | 36.62                      | 281                  | 0                       | P                       | V               |
|                                           |                                                                                             | 5150                 | 51.86               | -2.14            | 54                          | 47.21                     | 32.95                         | 8.32                   | 36.62                      | 281                  | 0                       | A                       | V               |
|                                           | *                                                                                           | 5190                 | 110.07              | -                | -                           | 105.42                    | 32.91                         | 8.36                   | 36.62                      | 281                  | 0                       | P                       | V               |
|                                           | *                                                                                           | 5190                 | 102.85              | -                | -                           | 98.2                      | 32.91                         | 8.36                   | 36.62                      | 281                  | 0                       | A                       | V               |
|                                           |                                                                                             | 5356.2               | 50.9                | -23.1            | 74                          | 46.27                     | 32.8                          | 8.43                   | 36.6                       | 281                  | 0                       | P                       | V               |
|                                           |                                                                                             | 5350.5               | 43.39               | -10.61           | 54                          | 38.76                     | 32.8                          | 8.43                   | 36.6                       | 281                  | 0                       | A                       | V               |
| 802.11ax<br>HE40 Full<br>CH 46<br>5230MHz |                                                                                             | 5149.76              | 60.77               | -13.23           | 74                          | 56.12                     | 32.95                         | 8.32                   | 36.62                      | 100                  | 36                      | P                       | H               |
|                                           |                                                                                             | 5150                 | 47.23               | -6.77            | 54                          | 42.58                     | 32.95                         | 8.32                   | 36.62                      | 100                  | 36                      | A                       | H               |
|                                           | *                                                                                           | 5230                 | 109.62              | -                | -                           | 104.98                    | 32.87                         | 8.38                   | 36.61                      | 100                  | 36                      | P                       | H               |
|                                           | *                                                                                           | 5230                 | 102.38              | -                | -                           | 97.74                     | 32.87                         | 8.38                   | 36.61                      | 100                  | 36                      | A                       | H               |
|                                           |                                                                                             | 5362.5               | 57.87               | -16.13           | 74                          | 53.24                     | 32.8                          | 8.43                   | 36.6                       | 100                  | 36                      | P                       | H               |
|                                           |                                                                                             | 5388.76              | 43.01               | -10.99           | 54                          | 38.35                     | 32.8                          | 8.45                   | 36.59                      | 100                  | 36                      | A                       | H               |
|                                           |                                                                                             | 5149.24              | 64.6                | -9.4             | 74                          | 59.95                     | 32.95                         | 8.32                   | 36.62                      | 212                  | 360                     | P                       | V               |
|                                           |                                                                                             | 5150                 | 50.52               | -3.48            | 54                          | 45.87                     | 32.95                         | 8.32                   | 36.62                      | 212                  | 360                     | A                       | V               |
|                                           | *                                                                                           | 5230                 | 111.93              | -                | -                           | 107.29                    | 32.87                         | 8.38                   | 36.61                      | 212                  | 360                     | P                       | V               |
|                                           | *                                                                                           | 5230                 | 104.47              | -                | -                           | 99.83                     | 32.87                         | 8.38                   | 36.61                      | 212                  | 360                     | A                       | V               |
|                                           |                                                                                             | 5356.26              | 56.93               | -17.07           | 74                          | 52.3                      | 32.8                          | 8.43                   | 36.6                       | 212                  | 360                     | P                       | V               |
|                                           |                                                                                             | 5351.32              | 42.93               | -11.07           | 54                          | 38.3                      | 32.8                          | 8.43                   | 36.6                       | 212                  | 360                     | A                       | V               |
| Remark                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |

## Band 1 5150~5250MHz

## WIFI 802.11ax HE40 Full (Harmonic @ 3m)

[illegible]

[illegible]



## Band 1 5150~5250MHz

## WIFI 802.11ax HE80 Full (Band Edge @ 3m)

| WIFI<br>Ant.<br>3+6                       | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<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) |
|-------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|------------------|-----------------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ax<br>HE80 Full<br>CH 42<br>5210MHz |                                                                                             | 5150                 | 59.39               | -14.61           | 74                          | 54.74                   | 32.95                         | 8.32                   | 36.62                      | 100                  | 54                      | P                     | H             |
|                                           |                                                                                             | 5149.76              | 50.4                | -3.6             | 54                          | 45.75                   | 32.95                         | 8.32                   | 36.62                      | 100                  | 54                      | A                     | H             |
|                                           | *                                                                                           | 5210                 | 103.32              | -                | -                           | 98.67                   | 32.89                         | 8.37                   | 36.61                      | 100                  | 54                      | P                     | H             |
|                                           | *                                                                                           | 5210                 | 94.96               | -                | -                           | 90.31                   | 32.89                         | 8.37                   | 36.61                      | 100                  | 54                      | A                     | H             |
|                                           |                                                                                             | 5417.1               | 47.53               | -26.47           | 74                          | 42.85                   | 32.8                          | 8.47                   | 36.59                      | 100                  | 54                      | P                     | H             |
|                                           |                                                                                             | 5362.8               | 38.77               | -15.23           | 54                          | 34.13                   | 32.8                          | 8.44                   | 36.6                       | 100                  | 54                      | A                     | H             |
|                                           |                                                                                             | 5150                 | 59.41               | -14.59           | 74                          | 54.76                   | 32.95                         | 8.32                   | 36.62                      | 284                  | 0                       | P                     | V             |
|                                           |                                                                                             | 5150                 | 52.29               | -1.71            | 54                          | 47.64                   | 32.95                         | 8.32                   | 36.62                      | 284                  | 0                       | A                     | V             |
|                                           | *                                                                                           | 5210                 | 104.35              | -                | -                           | 99.7                    | 32.89                         | 8.37                   | 36.61                      | 284                  | 0                       | P                     | V             |
|                                           | *                                                                                           | 5210                 | 96.58               | -                | -                           | 91.93                   | 32.89                         | 8.37                   | 36.61                      | 284                  | 0                       | A                     | V             |
|                                           |                                                                                             | 5358.6               | 47.81               | -26.19           | 74                          | 43.18                   | 32.8                          | 8.43                   | 36.6                       | 284                  | 0                       | P                     | V             |
|                                           |                                                                                             | 5350.5               | 39.93               | -14.07           | 54                          | 35.3                    | 32.8                          | 8.43                   | 36.6                       | 284                  | 0                       | A                     | V             |
| Remark                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                         |                               |                        |                            |                      |                         |                       |               |

## Band 1 5150~5250MHz

## WIFI 802.11ax HE80 Full (Harmonic @ 3m)

| WIFI<br>Ant.<br>3+6                       | Note | Frequency<br><br>( MHz ) | Level<br><br>( dBμV/m ) | Margin<br><br>( dB ) | Limit<br>Line<br><br>( dBμV/m ) | Read<br>Level<br><br>(dBμV) | Antenna<br>Factor<br><br>( dB/m ) | Path<br>Loss<br><br>( dB ) | Preamp<br>Factor<br><br>( dB ) | Ant<br>Pos<br><br>( cm ) | Table<br>Pos<br><br>( deg ) | Peak<br>Avg.<br><br>(P/A) | Pol.<br><br>(H/V) |
|-------------------------------------------|------|--------------------------|-------------------------|----------------------|---------------------------------|-----------------------------|-----------------------------------|----------------------------|--------------------------------|--------------------------|-----------------------------|---------------------------|-------------------|
| 802.11ax<br>HE80 Full<br>CH 42<br>5210MHz |      | 10420                    | 46.53                   | -21.67               | 68.2                            | 53.27                       | 38.57                             | 12.52                      | 57.83                          | -                        | -                           | P                         | H                 |
|                                           |      | 15630                    | 47.72                   | -26.28               | 74                              | 51.05                       | 38.13                             | 15.89                      | 57.35                          | -                        | -                           | 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                         |                   |
|                                           |      |                          |                         |                      |                                 |                             |                                   |                            |                                |                          |                             |                           |                   |



| WIFI                   | Note                                                                                                                                                                                                                  | Frequency | Level      | Margin | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                   |                                                                                                                                                                                                                       |           |            |        | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 3+6                    |                                                                                                                                                                                                                       | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>HT20<br>SHF |                                                                                                                                                                                                                       | 35974     | 46.54      | -21.66 | 68.2       | 106.48 | 0        | -1.13  | 58.81  | -      | -       | P     | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | H     |
| 802.11n<br>HT20<br>SHF |                                                                                                                                                                                                                       | 39560     | 46.35      | -27.65 | 74         | 103.41 | 0        | -0.63  | 56.43  | -      | -       | P     | V     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | V     |
|                        |                                                                                                                                                                                                                       |           |            |        |            |        |          |        |        |        |         |       | 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 position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. |           |            |        |            |        |          |        |        |        |         |       |       |

## Emission below 1GHz

**WIFI 802.11n HT20 (LF @ 3m)**

| WIFI                  | Note                                                                                                                                                               | Frequency | Level      | Margin | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |   |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|---|
| Ant.                  |                                                                                                                                                                    |           |            |        | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |   |
| 3+6                   |                                                                                                                                                                    | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |   |
| 802.11n<br>HT20<br>LF |                                                                                                                                                                    | 116.94    | 27.93      | -15.57 | 43.5       | 41.53  | 17.39    | 1.35   | 32.34  | -      | -       | P     | H     |   |
|                       |                                                                                                                                                                    | 140.52    | 32.93      | -10.57 | 43.5       | 46.28  | 17.53    | 1.5    | 32.38  | -      | -       | P     | H     |   |
|                       |                                                                                                                                                                    | 146.28    | 31.58      | -11.92 | 43.5       | 45.14  | 17.26    | 1.56   | 32.38  | -      | -       | P     | H     |   |
|                       |                                                                                                                                                                    | 707.2     | 32.99      | -13.01 | 46         | 35.66  | 26.46    | 3.18   | 32.31  | -      | -       | P     | H     |   |
|                       |                                                                                                                                                                    | 940.8     | 32.76      | -13.24 | 46         | 30.21  | 29.92    | 3.72   | 31.09  | -      | -       | P     | H     |   |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |   |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |   |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |   |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |   |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |   |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |   |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |   |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | H     |   |
|                       |                                                                                                                                                                    | 33.6      | 30.73      | -9.27  | 40         | 39.6   | 22.79    | 0.74   | 32.4   | 32.4   | -       | -     | P     | V |
|                       |                                                                                                                                                                    | 113.16    | 30.84      | -12.66 | 43.5       | 44.68  | 17.26    | 1.34   | 32.44  | 32.44  | -       | -     | P     | V |
|                       |                                                                                                                                                                    | 140.52    | 34.71      | -8.79  | 43.5       | 48.07  | 17.53    | 1.5    | 32.39  | 32.39  | -       | -     | P     | V |
|                       |                                                                                                                                                                    | 146.28    | 34.36      | -9.14  | 43.5       | 47.93  | 17.26    | 1.56   | 32.39  | 32.39  | -       | -     | P     | V |
|                       |                                                                                                                                                                    | 711.2     | 32.47      | -13.53 | 46         | 35.06  | 26.52    | 3.19   | 32.3   | 32.3   | -       | -     | P     | V |
|                       |                                                                                                                                                                    | 948       | 33.23      | -12.77 | 46         | 30.08  | 30.43    | 3.75   | 31.03  | 31.03  | -       | -     | P     | V |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       |       | V |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       |       | V |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       |       | V |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       |       | V |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       |       | V |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       | V     |   |
| Remark                | 1. No other spurious found.                                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       |       |   |
|                       | 2. All results are PASS against limit line.                                                                                                                        |           |            |        |            |        |          |        |        |        |         |       |       |   |
|                       | 3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only. |           |            |        |            |        |          |        |        |        |         |       |       |   |
|                       |                                                                                                                                                                    |           |            |        |            |        |          |        |        |        |         |       |       |   |



**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>Margin</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      | Margin | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|----------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.     |      |           |            |        | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 3+6      |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ax |      | 5150      | 59.39      | -14.61 | 74         | 54.74    | 32.95    | 8.32   | 36.62  | 100    | 54      | P       | H       |
| CH 42    |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 5210MHz  |      | 5149.76   | 50.4       | -3.6   | 54         | 45.75    | 32.95    | 8.32   | 36.62  | 100    | 54      | 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. Margin(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. Margin(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. Margin(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”.



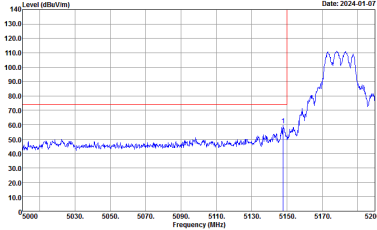
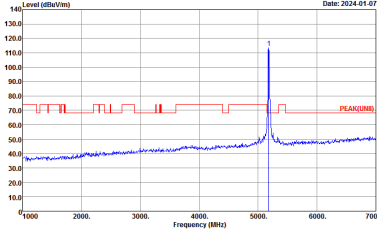
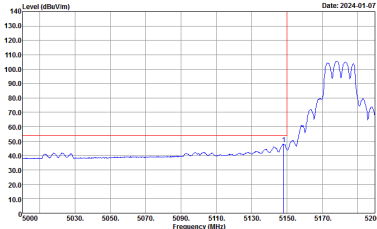
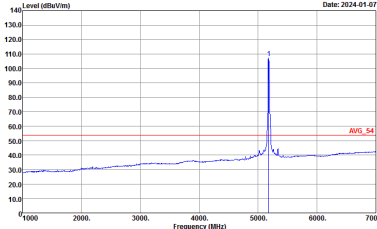
## Appendix D. Radiated Spurious Emission Plots

|                 |                                           |                     |             |
|-----------------|-------------------------------------------|---------------------|-------------|
| Test Engineer : | Daniel Lee, Quentin Liu, and Bigshow Wang | Temperature :       | 21.4~23.1°C |
|                 |                                           | Relative Humidity : | 51~58%      |

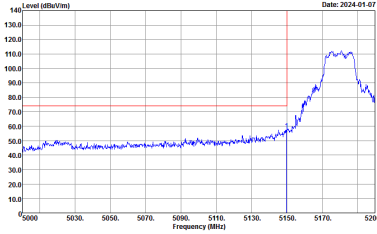
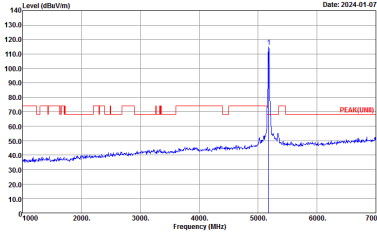
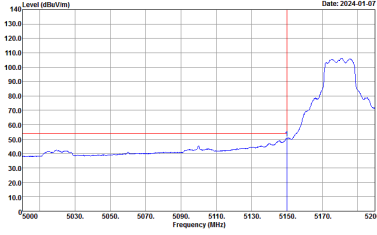
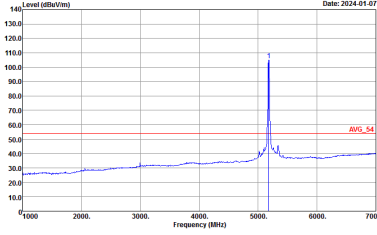
### Note symbol

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

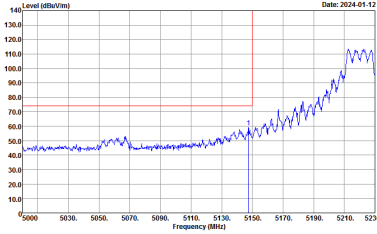
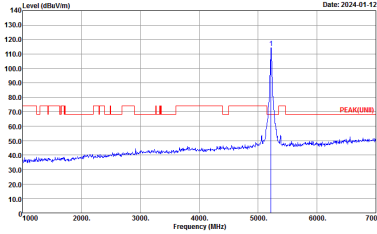
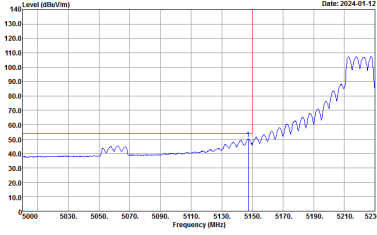
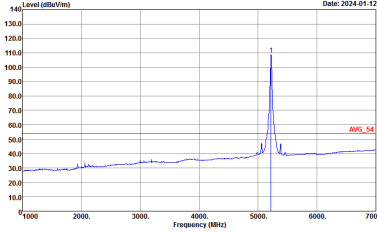
**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                         |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11a CH36 5180MHz                                                                                                                                                                                                   |                                                                                                                                                                                                                         |
| 3+6         | Horizontal                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                             |
| <b>Peak</b> |  <p>Site : 03CH15-HY<br/> Condition : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/> : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/> Condition : PEAK(FUND) 3m 91200_02294_230630 HORIZONTAL<br/> : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
|             |  <p>Site : 03CH15-HY<br/> Condition : AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/> : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/> Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/> : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>       |

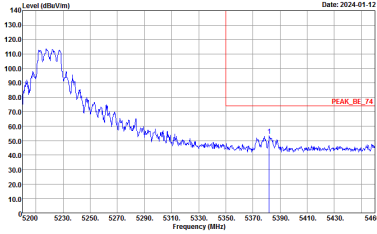
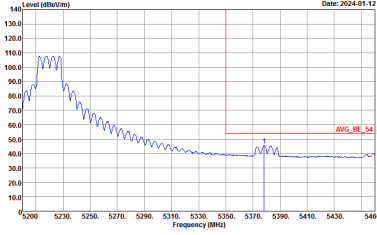


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                                                                               |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>       |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                                                                             |                                                                                                                                                                                                                       |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>       |

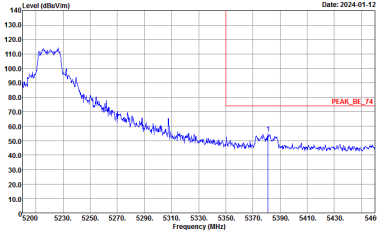
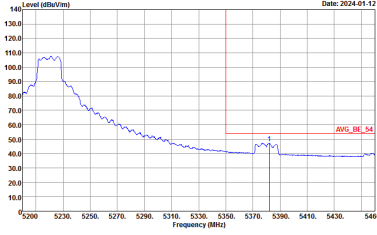


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                    |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                              |             |
| 3+6  | Horizontal                                                                                                                                                                                                            | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    | Left blank  |

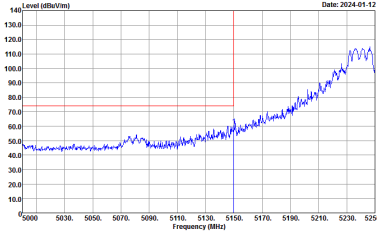
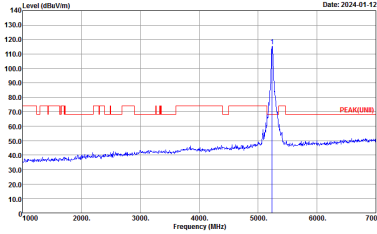
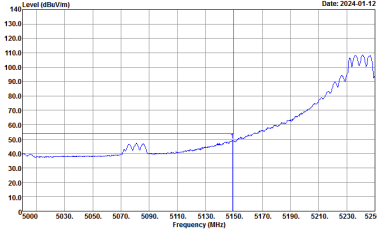
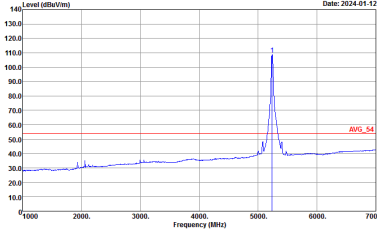


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                               |                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                         |                                                                                                                                  |
| 3+6  | Vertical                                                                                                                         | Fundamental                                                                                                                      |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>      | <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>         |

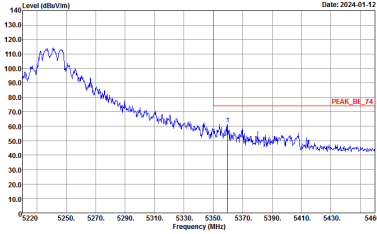
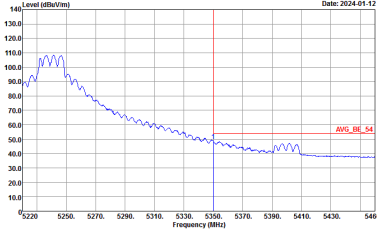


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                                      |             |
| 3+6  | Vertical                                                                                                                                                                                                                      | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p></div>    | Left blank  |

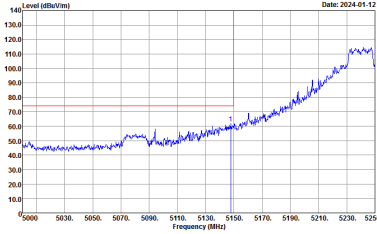
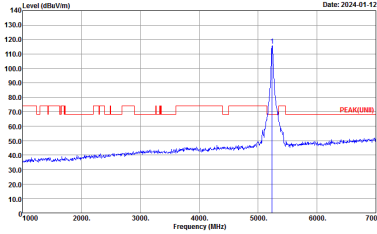
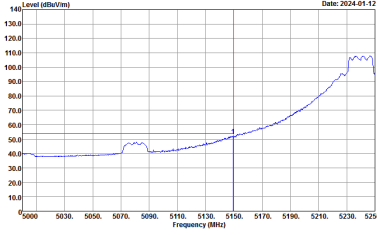
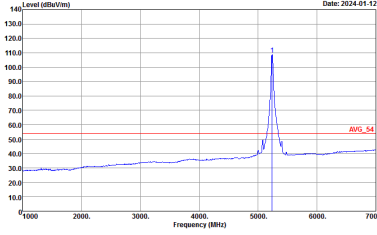


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                                                             |                                                                                                                                                                                                                       |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>       |

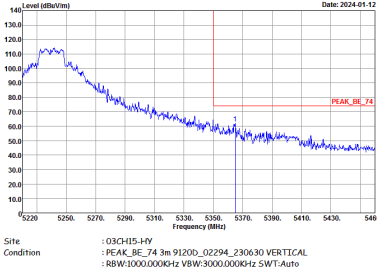
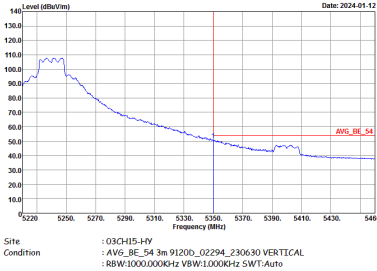


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                    |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                              |             |
| 3+6  | Horizontal                                                                                                                                                                                                            | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    | Left blank  |



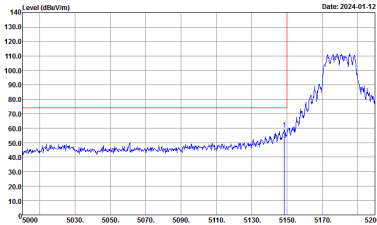
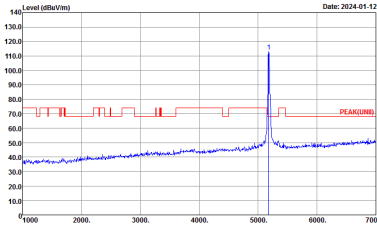
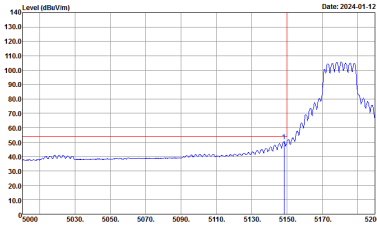
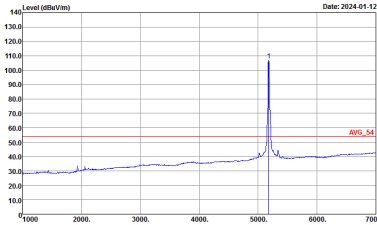
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                                                           |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>       |



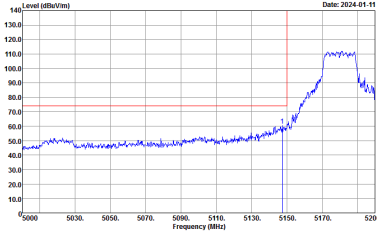
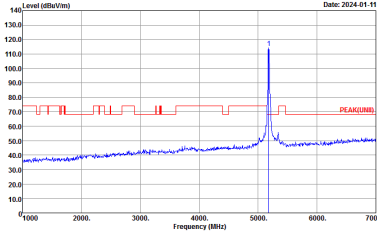
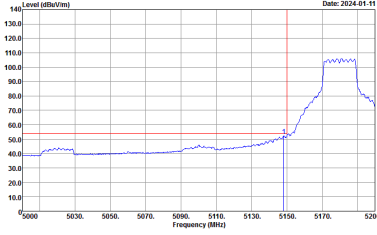
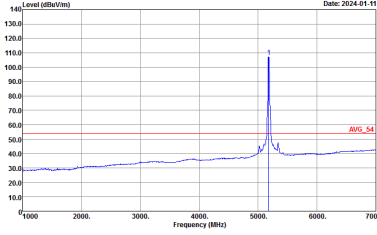
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                            |             |
| 3+6  | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |



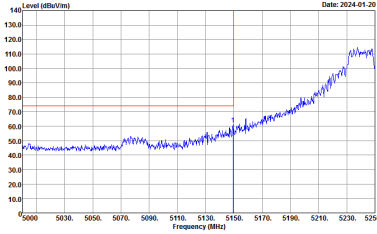
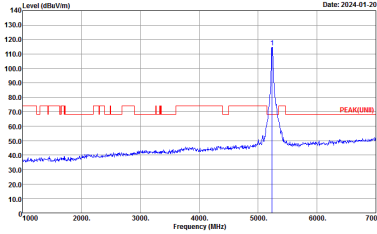
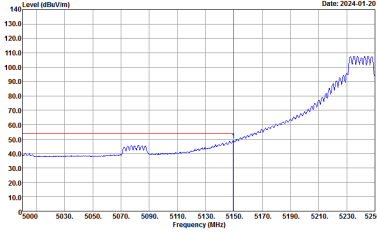
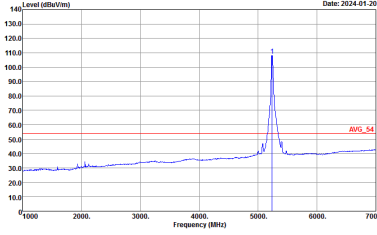
Band 1 5150~5250MHz  
WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH36 5180MHz                                                                                                                                                                                            |                                                                                                                                                                                                                       |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>       |

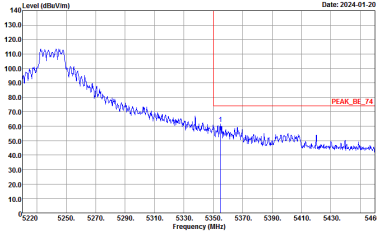
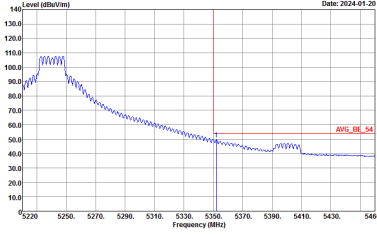


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH36 5180MHz                                                                                                                                                                                          |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>       |

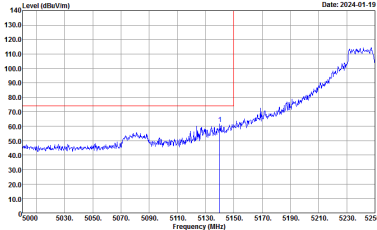
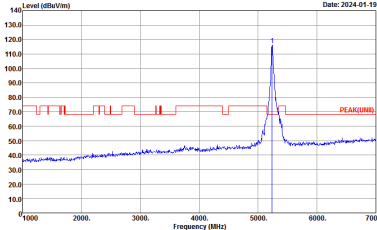
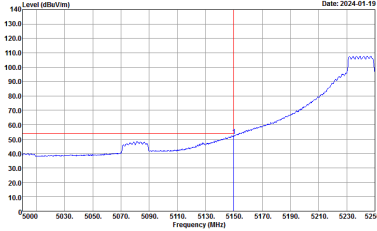
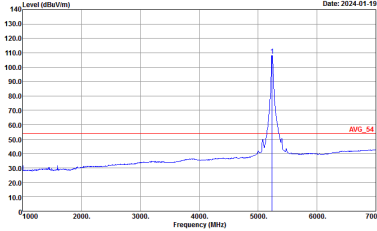


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH48 5240MHz - L                                                                                                                                                                                        |                                                                                                                                                                                                                       |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>       |

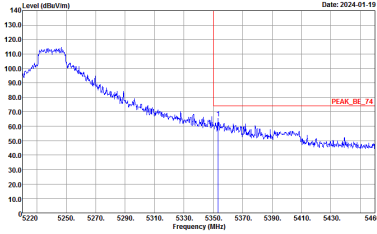
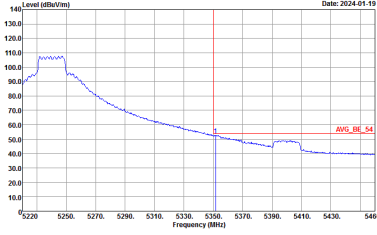


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                               |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH48 5240MHz - R                                                                                                                                                                                                    |             |
| 3+6  | Horizontal                                                                                                                                                                                                                       | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<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_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p></div>    | Left blank  |



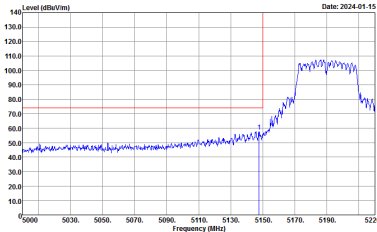
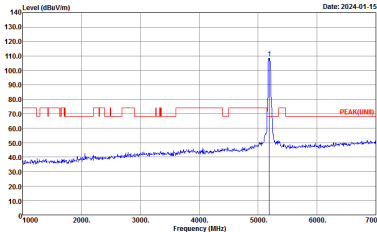
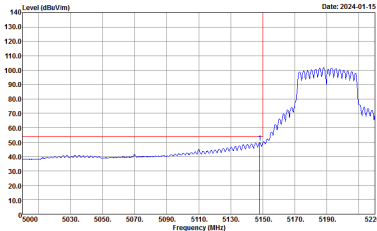
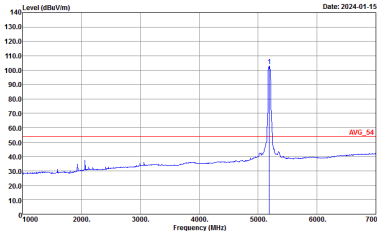
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH48 5240MHz - L                                                                                                                                                                                      |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>       |



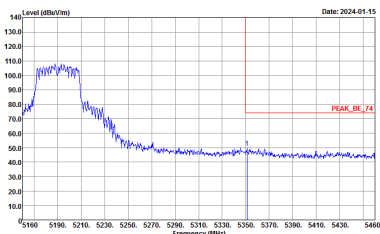
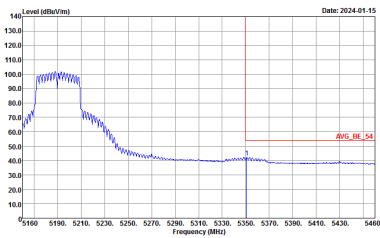
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                             |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH48 5240MHz - R                                                                                                                                                                                                  |             |
| 3+6  | Vertical                                                                                                                                                                                                                       | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p></div>    | Left blank  |



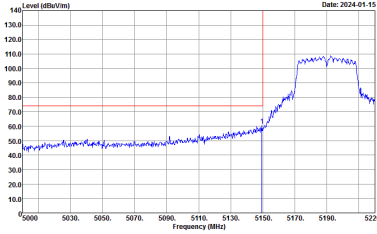
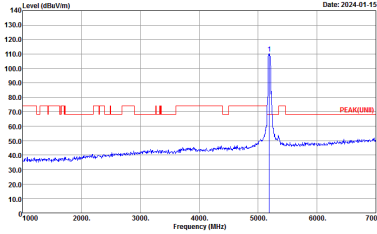
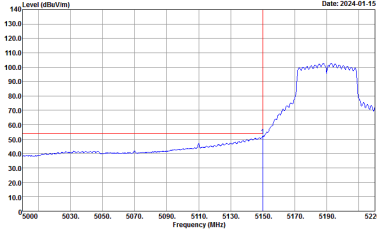
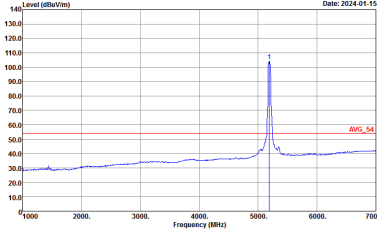
Band 1 5150~5250MHz  
WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH38 5190MHz - L                                                                                                                                                                                        |                                                                                                                                                                                                                       |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site Condition : 03CH15-HY<br/>: PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site Condition : 03CH15-HY<br/>: PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site Condition : 03CH15-HY<br/>: AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   |  <p>Site Condition : 03CH15-HY<br/>: AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>      |

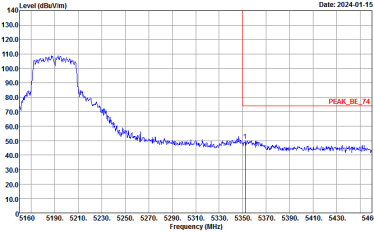
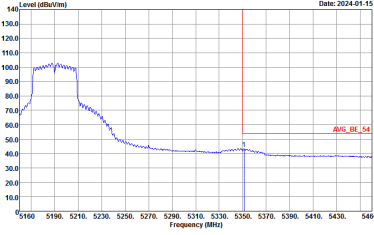


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                    |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH38 5190MHz - R                                                                                                                                                                                         |             |
| 3+6  | Horizontal                                                                                                                                                                                                            | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    | Left blank  |

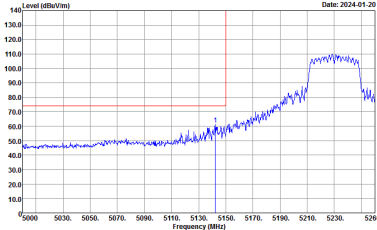
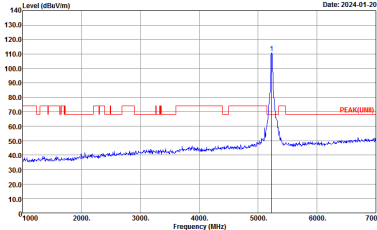
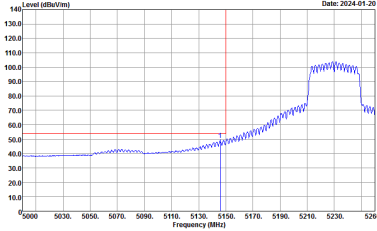
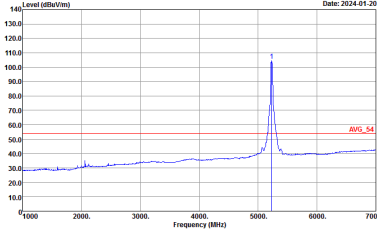


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH38 5190MHz - L                                                                                                                                                                                      |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>       |

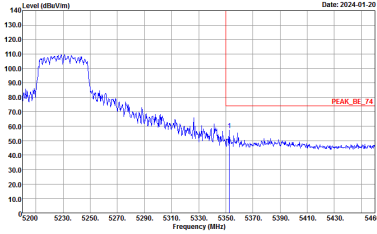
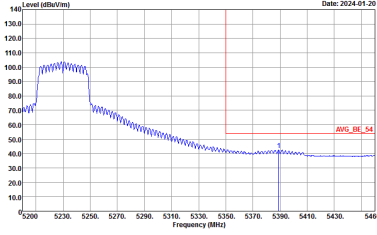


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH38 5190MHz - R                                                                                                                                                                                                 |             |
| 3+6  | Vertical                                                                                                                                                                                                                      | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p></div>    | Left blank  |

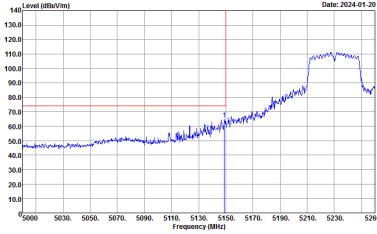
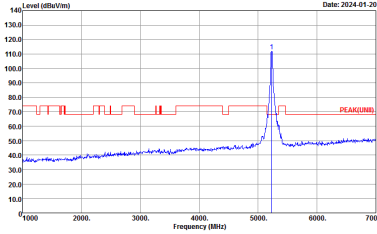
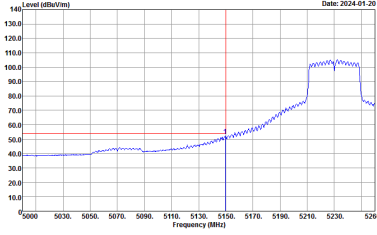
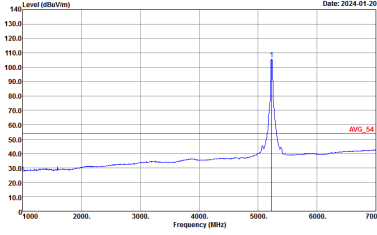


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH46 5230MHz - L                                                                                                                                                                                        |                                                                                                                                                                                                                       |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(FUND) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>      |

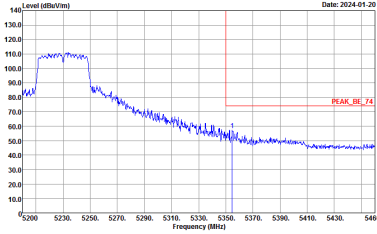
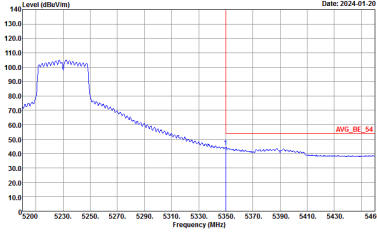


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH46 5230MHz - R                                                                                                                                                                                        |             |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    | Left blank  |



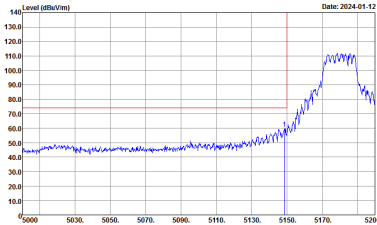
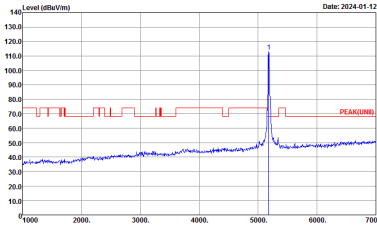
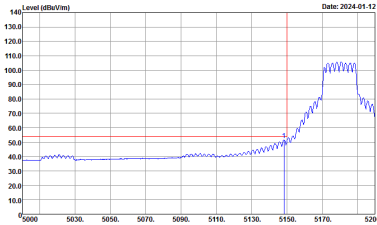
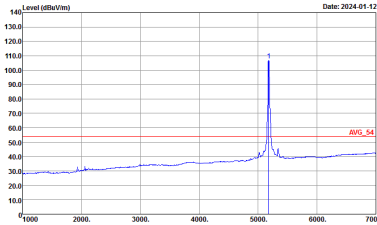
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH46 5230MHz - L                                                                                                                                                                                      |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(FUND) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_FUND 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>     |



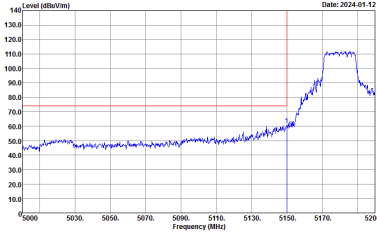
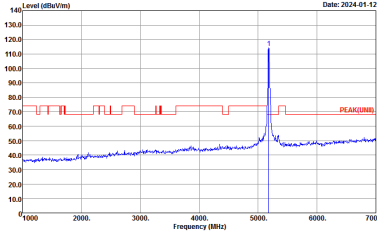
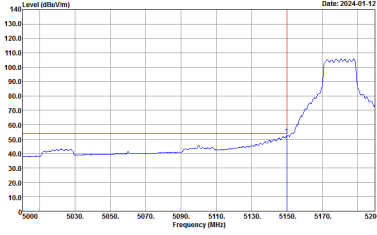
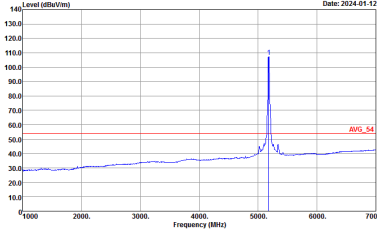
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH46 5230MHz - R                                                                                                                                                                                      |             |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    | Left blank  |



Band 1 5150~5250MHz  
WIFI 802.11ac VHT20 (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH36 5180MHz                                                                                                                                                                                          |                                                                                                                                                                                                                       |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site Condition : 03CH15-HY<br/>: PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site Condition : 03CH15-HY<br/>: PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site Condition : 03CH15-HY<br/>: AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.430KHz SWT:Auto</p>   |  <p>Site Condition : 03CH15-HY<br/>: AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.430KHz SWT:Auto</p>      |

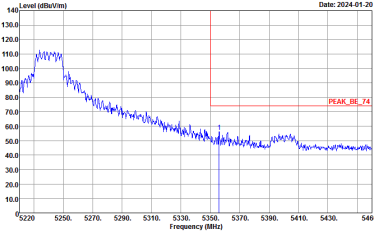
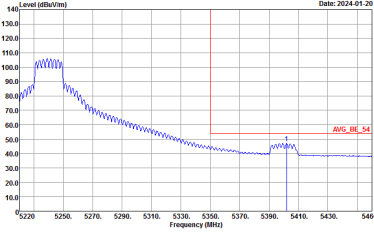


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH36 5180MHz                                                                                                                                                                                        |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:0.430KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:0.430KHz SWT:Auto</p>      |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                 |                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - L                                                                                                    |                                                                                                                                    |
| 3+6  | Horizontal                                                                                                                         | Fundamental                                                                                                                        |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK(FUND) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.430KHz SWT:Auto</p>     | <p>Site : 03CH15-HY<br/>Condition : AVG_FUND 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:0.430KHz SWT:Auto</p>      |

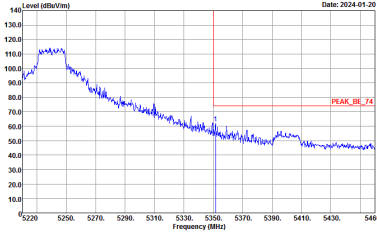
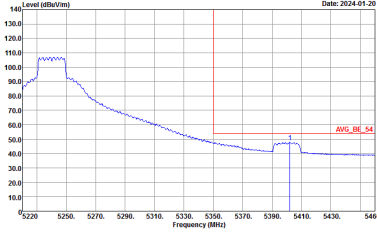


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                               |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - R                                                                                                                                                                                                  |             |
| 3+6  | Horizontal                                                                                                                                                                                                                       | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<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_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:450KHz SWT:Auto</p></div>     | Left blank  |



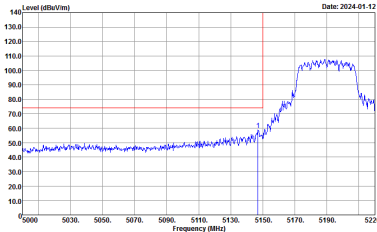
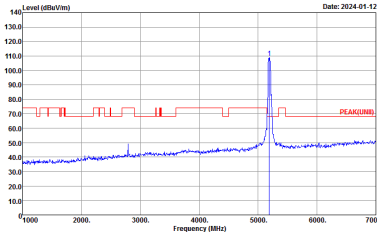
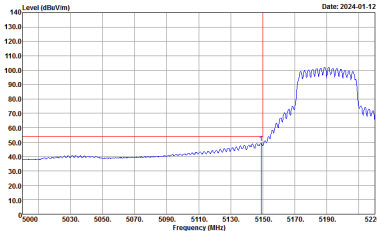
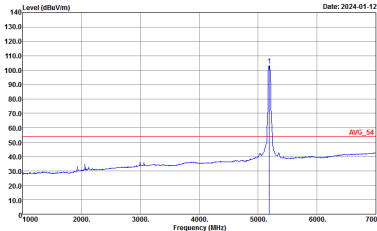
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                               |                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - L                                                                                                  |                                                                                                                                  |
| 3+6  | Vertical                                                                                                                         | Fundamental                                                                                                                      |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:0.430KHz SWT:Auto</p>     | <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:0.430KHz SWT:Auto</p>        |



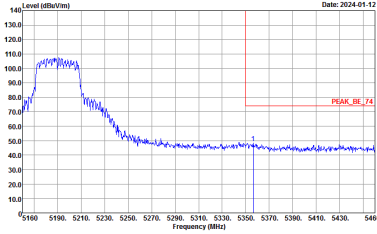
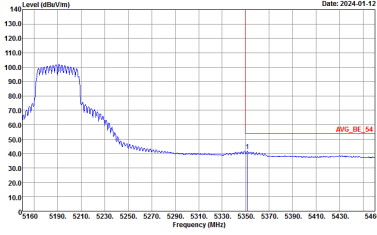
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - R                                                                                                                                                                                               |             |
| 3+6  | Vertical                                                                                                                                                                                                                      | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:450KHz SWT:Auto</p></div>     | Left blank  |



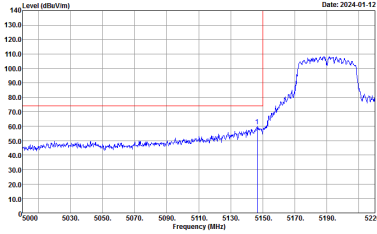
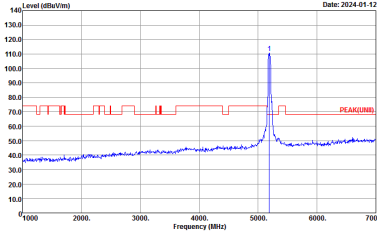
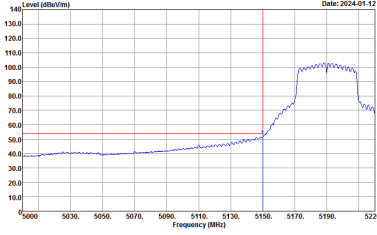
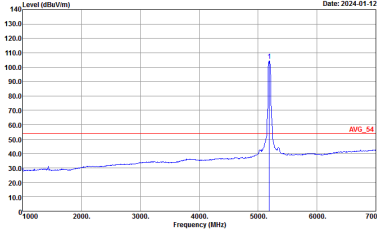
Band 1 5150~5250MHz  
WIFI 802.11ac VHT40 (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - L                                                                                                                                                                                      |                                                                                                                                                                                                                       |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site Condition : 03CH15-HY<br/>: PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site Condition : 03CH15-HY<br/>: PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site Condition : 03CH15-HY<br/>: AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site Condition : 03CH15-HY<br/>: AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>       |

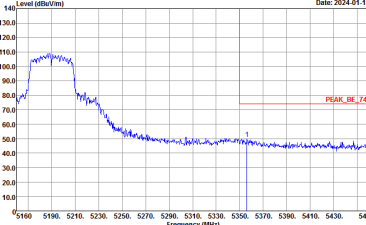
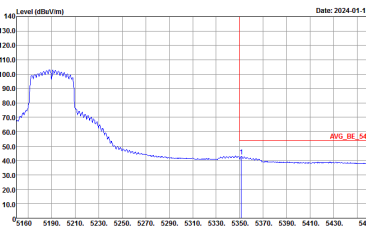


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                    |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - R                                                                                                                                                                                       |             |
| 3+6  | Horizontal                                                                                                                                                                                                            | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - L                                                                                                                                                                                    |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>       |

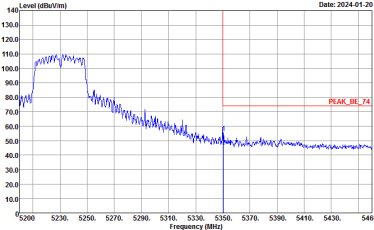
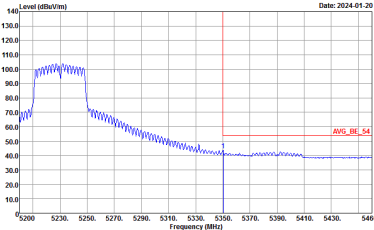


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - R                                                                                                                                                                                               |             |
| 3+6  | Vertical                                                                                                                                                                                                                      | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p></div>    | Left blank  |

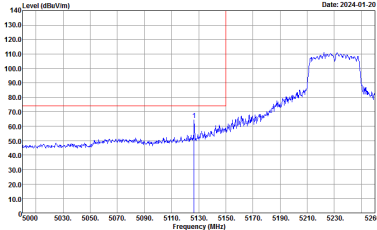
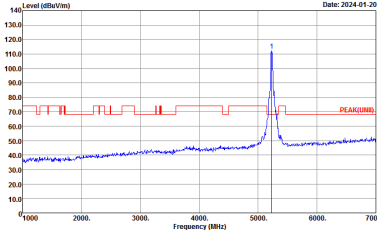
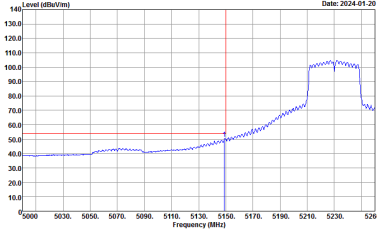
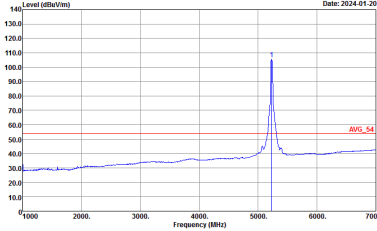


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                 |                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - L                                                                                                    |                                                                                                                                    |
| 3+6  | Horizontal                                                                                                                         | Fundamental                                                                                                                        |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>      | <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>         |

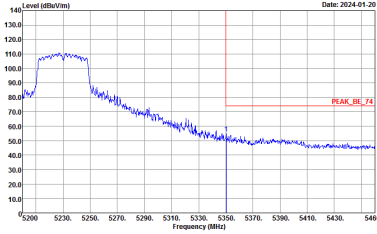
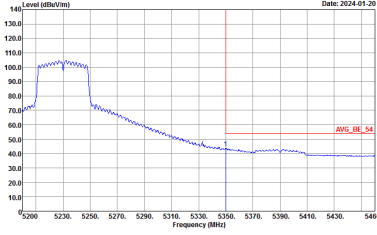


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                             |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - R                                                                                                                                                                                                |             |
| 3+6  | Horizontal                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<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_02294_230630 HORIZONTAL<br/>:RBW:1000.000KHz VBW:1000KHz SWT:Auto</p></div>    | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - L                                                                                                                                                                                    |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(FUND) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_FUND 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>     |



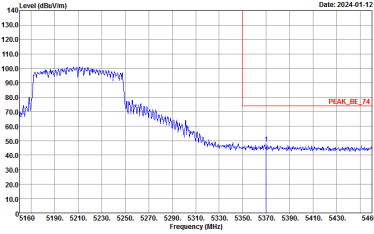
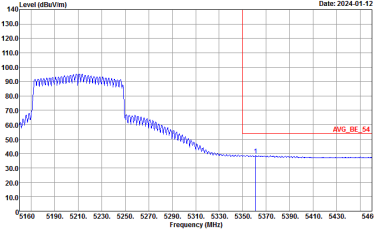
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                  |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - R                                                                                                                                                                                     |             |
| 3+6  | Vertical                                                                                                                                                                                                            | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    | Left blank  |



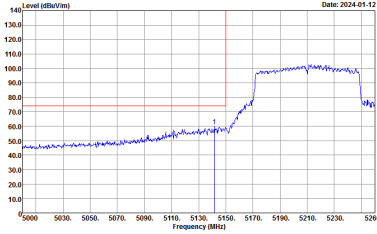
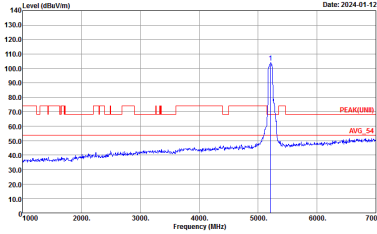
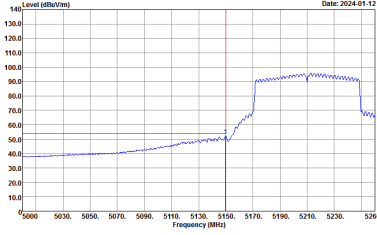
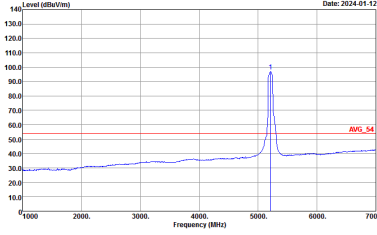
**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                 |                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - L                                                                                                    |                                                                                                                                    |
| 3+6  | Horizontal                                                                                                                         | Fundamental                                                                                                                        |
| Peak | <p>Site Condition : 03CH15-HY<br/>: PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site Condition : 03CH15-HY<br/>: PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site Condition : 03CH15-HY<br/>: AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>     | <p>Site Condition : 03CH15-HY<br/>: AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>        |

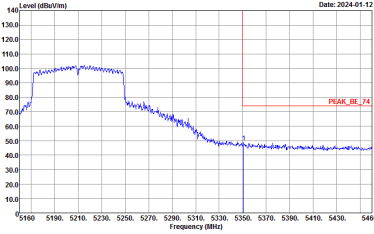
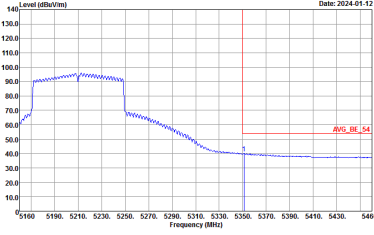


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                             |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                                                                                |             |
| 3+6  | Horizontal                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<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_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p></div>    | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - L                                                                                                                                                                                    |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(FUND) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>    |  <p>Site : 03CH15-HY<br/>Condition : AVG_FUND 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>     |



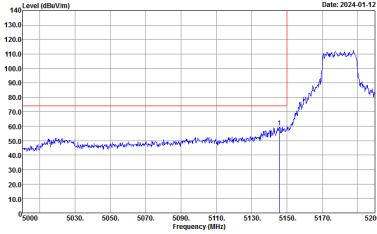
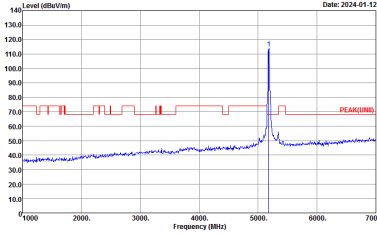
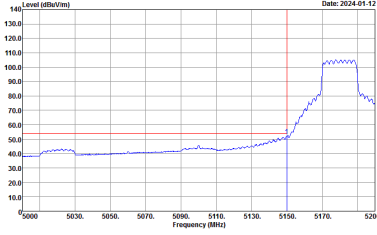
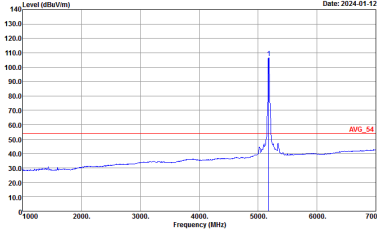
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                           |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                                                                              |             |
| 3+6  | Vertical                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 VERTICAL<br/>:RBW:1000.000KHz VBW:1000KHz SWT:Auto</p></div>    | Left blank  |



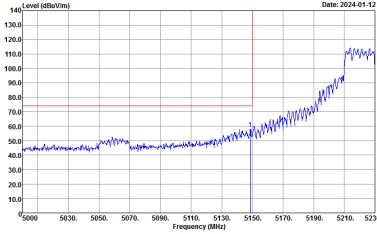
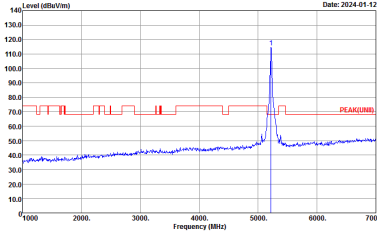
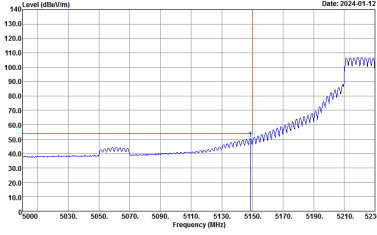
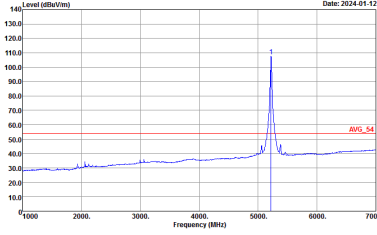
**Band 1 5150~5250MHz**  
**WIFI 802.11ax HE20 Full (Band Edge @ 3m)**

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                 |                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Full CH36 5180MHz                                                                                                    |                                                                                                                                    |
| 3+6  | Horizontal                                                                                                                         | Fundamental                                                                                                                        |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1100KHz SWT:Auto</p>      | <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1100KHz SWT:Auto</p>         |

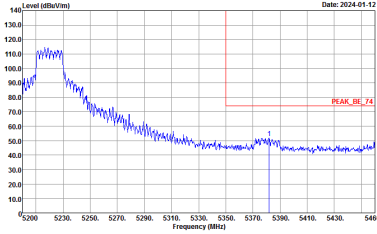
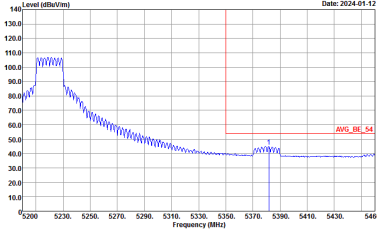


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Full CH36 5180MHz                                                                                                                                                                                    |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>      |

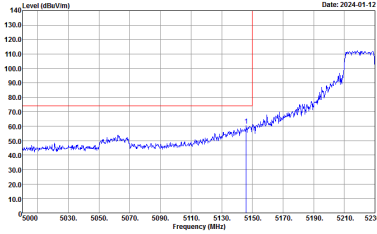
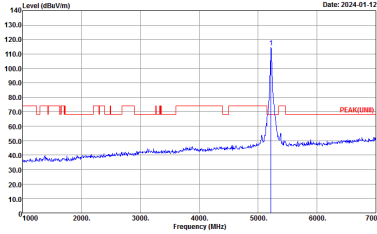
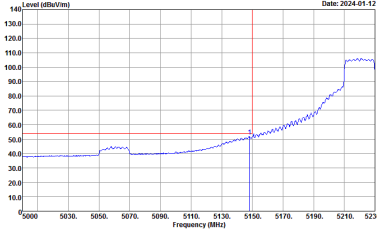
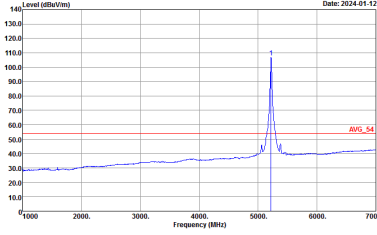


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Full CH44 5220MHz - L                                                                                                                                                                                  |                                                                                                                                                                                                                       |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>      |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                              |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE20 Full CH44 5220MHz - R                                                                                                                                                                                             |             |
| 3+6  | Horizontal                                                                                                                                                                                                                      | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<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_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div>   | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Full CH44 5220MHz - L                                                                                                                                                                                |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>      |

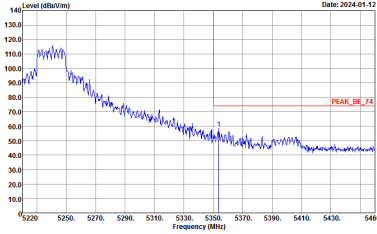
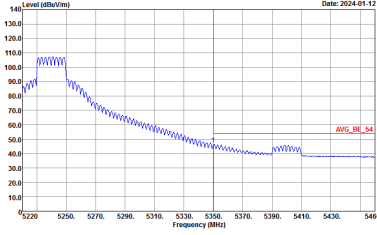


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                          |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE20 Full CH44 5220MHz - R                                                                                                         |             |
| 3+6  | Vertical                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div>     | Left blank  |

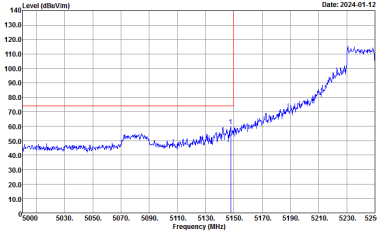
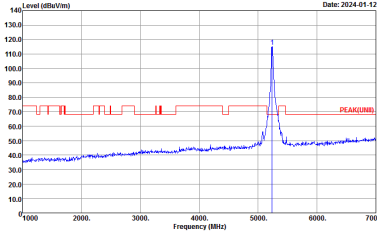
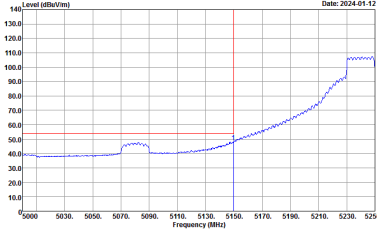
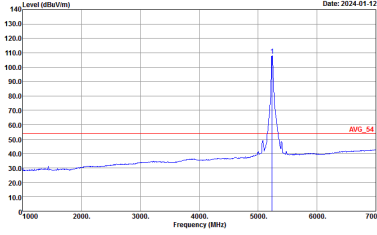


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                 |                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Full CH48 5240MHz - L                                                                                                |                                                                                                                                    |
| 3+6  | Horizontal                                                                                                                         | Fundamental                                                                                                                        |
| Peak | <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH15-HY<br/>Condition : PEAK(FUND) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>     | <p>Site : 03CH15-HY<br/>Condition : AVG_FUND 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>      |

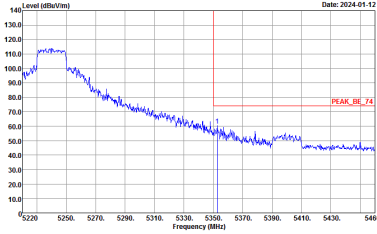
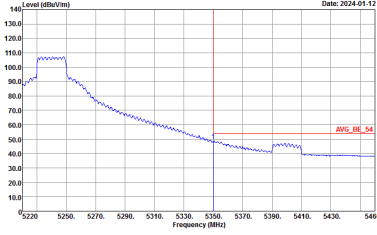


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                     |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE20 Full CH48 5240MHz - R                                                                                                                                                                                    |             |
| 3+6  | Horizontal                                                                                                                                                                                                             | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : : PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   | Left blank  |



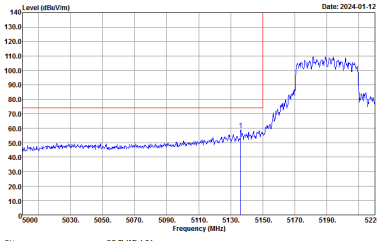
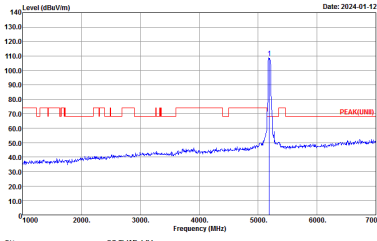
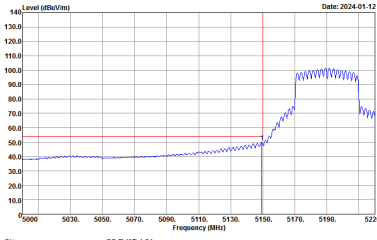
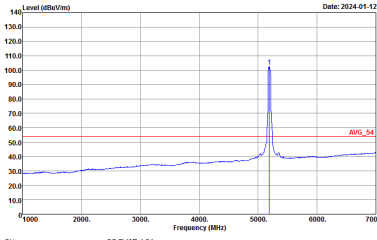
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE20 Full CH48 5240MHz - L                                                                                                                                                                                |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(FUND) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_FUND 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>    |



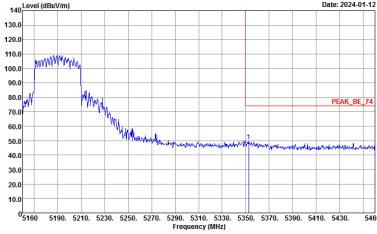
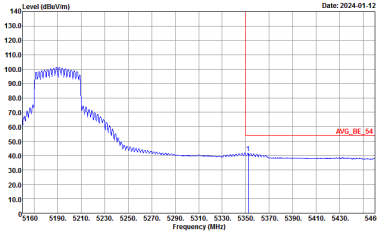
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE20 Full CH48 5240MHz - R                                                                                                                                                                                |             |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   | Left blank  |



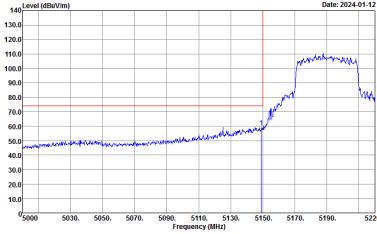
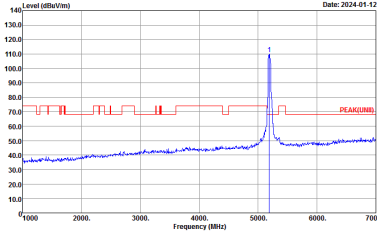
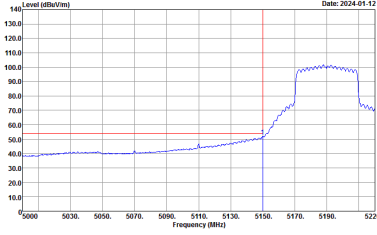
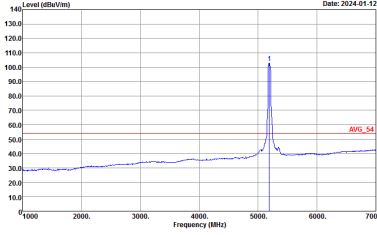
Band 1 5150~5250MHz  
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE40 Full CH38 5190MHz - L                                                                                                                                                                                  |                                                                                                                                                                                                                       |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site Condition : 03CH15-HY<br/>: PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site Condition : 03CH15-HY<br/>: PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site Condition : 03CH15-HY<br/>: AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1100KHz SWT:Auto</p>    |  <p>Site Condition : 03CH15-HY<br/>: AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1100KHz SWT:Auto</p>       |

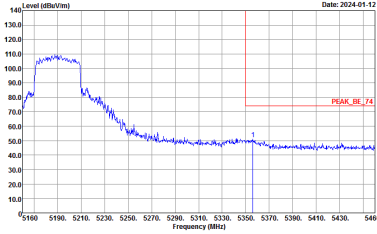
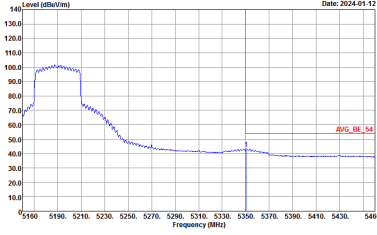


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                              |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE40 Full CH38 5190MHz - R                                                                                                                                                                                             |             |
| 3+6  | Horizontal                                                                                                                                                                                                                      | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<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_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div>   | Left blank  |

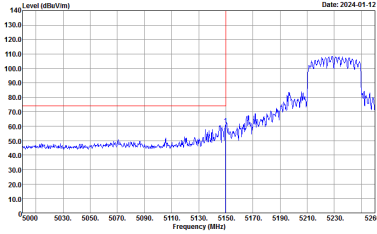
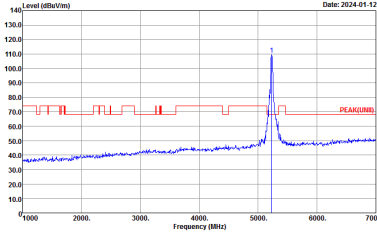
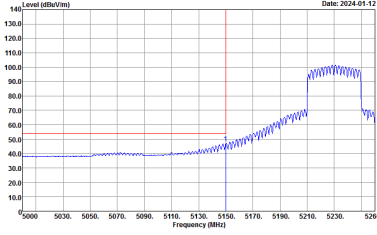
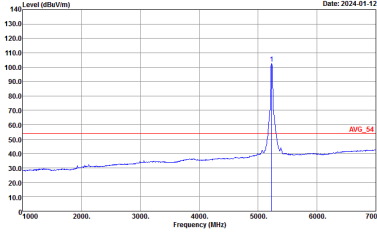


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE40 Full CH38 5190MHz - L                                                                                                                                                                                |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>      |

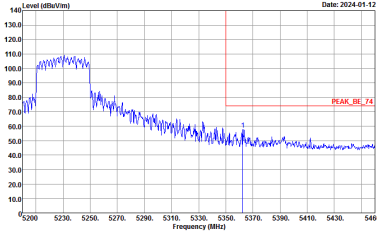
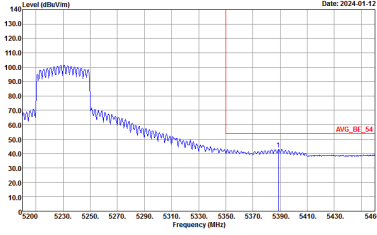


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                           |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE40 Full CH38 5190MHz - R                                                                                                                                                                                          |             |
| 3+6  | Vertical                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 VERTICAL<br/>:RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div>   | Left blank  |

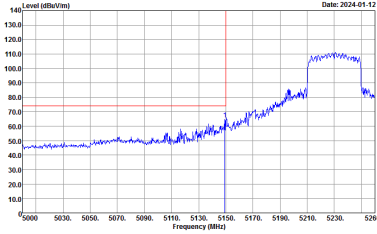
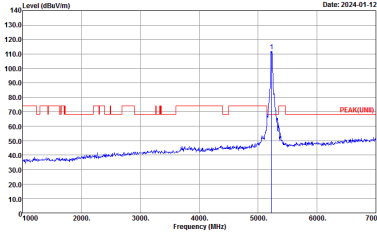
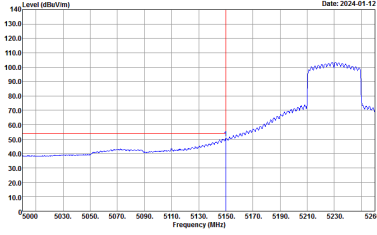
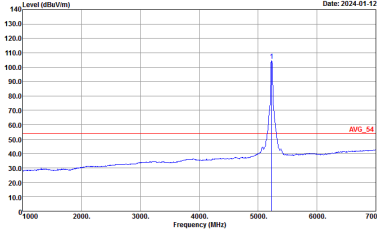


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE40 Full CH46 5230MHz - L                                                                                                                                                                                  |                                                                                                                                                                                                                       |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(FUND) 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_FUND 3m 91200_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>    |

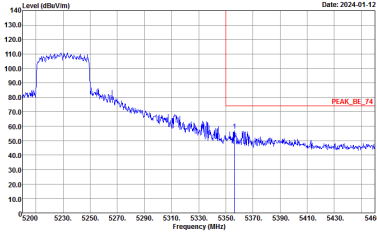
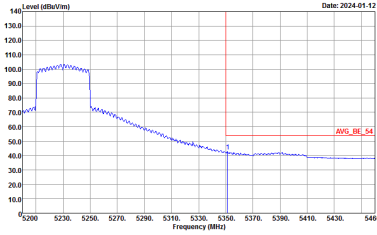


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE40 Full CH46 5230MHz - R                                                                                                                                                                                  |             |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   | Left blank  |



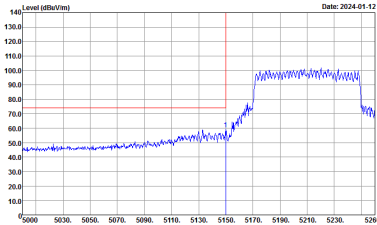
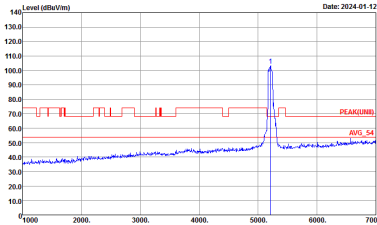
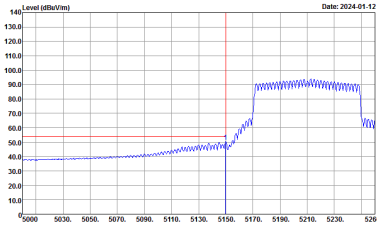
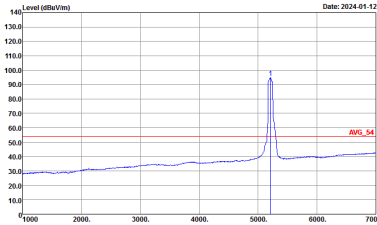
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE40 Full CH46 5230MHz - L                                                                                                                                                                                |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(FUND) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_FUND 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>    |



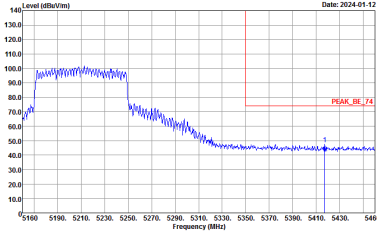
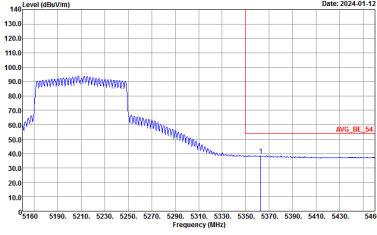
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                         |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE40 Full CH46 5230MHz - R                                                                                                                                                                                        |             |
| 3+6  | Vertical                                                                                                                                                                                                                   | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div>   | Left blank  |



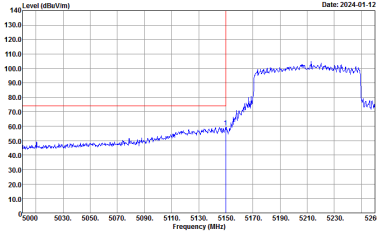
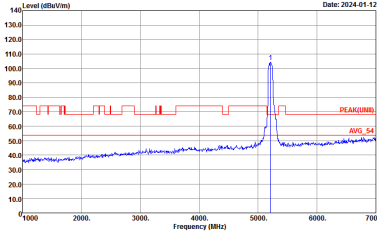
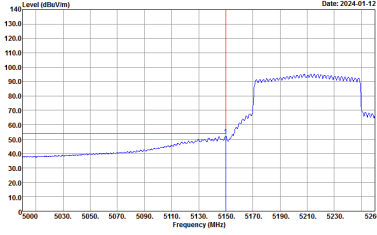
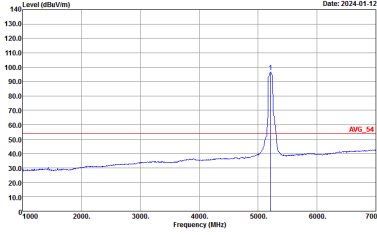
**Band 1 5150~5250MHz**  
**WIFI 802.11ax HE80 Full (Band Edge @ 3m)**

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                               |                                                                                                                                                                                                                   |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE80 Full CH42 5210MHz - L                                                                                                                                                                              |                                                                                                                                                                                                                   |
| 3+6  | Horizontal                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                       |
| Peak |  <p>Site: 03CH15-HY<br/>Condition: PEAK_BE_74 3m 91200_02294_230630 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site: 03CH15-HY<br/>Condition: PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site: 03CH15-HY<br/>Condition: AVG_BE_54 3m 91200_02294_230630 HORIZONTAL<br/>RBW:1000.000KHz VBW:11000KHz SWT:Auto</p>   |  <p>Site: 03CH15-HY<br/>Condition: AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>RBW:1000.000KHz VBW:11000KHz SWT:Auto</p>      |

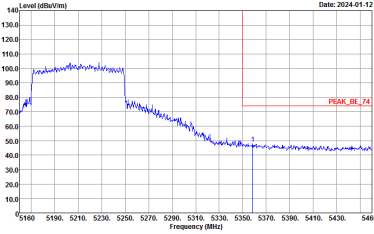
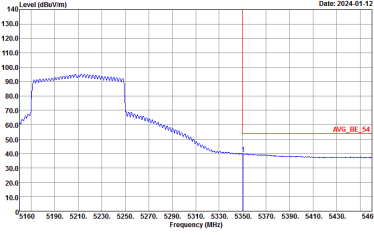


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                   |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE80 Full CH42 5210MHz - R                                                                                                                                                                                  |             |
| 3+6  | Horizontal                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 HORIZONTAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   | Left blank  |



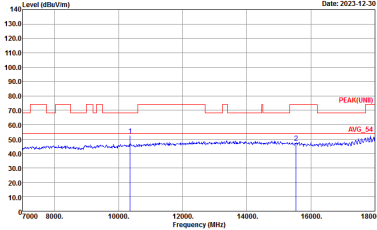
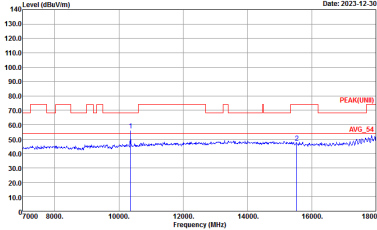
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ax HE80 Full CH42 5210MHz - L                                                                                                                                                                                |                                                                                                                                                                                                                     |
| 3+6  | Vertical                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH15-HY<br/>Condition : PEAK_BE_74 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_BE_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>      |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ax HE80 Full CH42 5210MHz - R                                                                                                                                                                                           |             |
| 3+6  | Vertical                                                                                                                                                                                                                      | Fundamental |
| Peak | <div><p>Site : 03CH15-HY<br/>Condition : :PEAK_BE_74 3m 91200_02294_230630 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_02294_230630 VERTICAL<br/>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p></div>   | Left blank  |



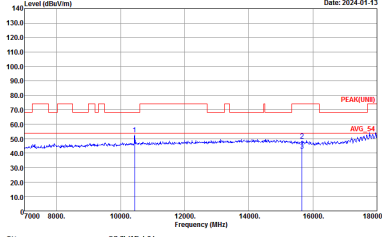
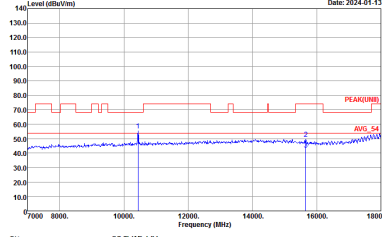
Band 1 - 5150~5250MHz  
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                            |                                                                                                                                                                             |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH36 5180MHz                                                                                                                                                         |                                                                                                                                                                             |
| 3+6          | Horizontal                                                                                                                                                                   | Vertical                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : -PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>:</p> |  <p>Site : 03CH15-HY<br/>Condition : -PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>:</p> |



| WIFI                     | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11a CH36 5180MHz                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3+6                      | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                         | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 14.47G<br>~14.5G<br>Avg. | <p>Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the average level (AVG_54) at approximately 50 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the average level (AVG_54) at approximately 50 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL</p> |
| 17.7G<br>~18G<br>Avg.    | <p>Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the average level (AVG_54) at approximately 50 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the average level (AVG_54) at approximately 50 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL</p> |



|              |                                                                                                                                                                                  |                                                                                                                                                                                 |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                |                                                                                                                                                                                 |
| ANT          | 802.11a CH44 5220MHz                                                                                                                                                             |                                                                                                                                                                                 |
| 3+6          | Horizontal                                                                                                                                                                       | Vertical                                                                                                                                                                        |
| Peak<br>Avg. | <div><p>Site : 03CH15-14Y<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL</p></div> | <div><p>Site : 03CH15-14Y<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL</p></div> |



| WIFI                     | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11a CH44 5220MHz                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3+6                      | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                               | Vertical                                                                                                                                                                                                                                                                                                                                                                                                             |
| 14.47G<br>~14.5G<br>Avg. | <p>Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the AVG_54 level at approximately 50 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the AVG_54 level at approximately 50 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL</p> |
| 17.7G<br>~18G<br>Avg.    | <p>Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the AVG_54 level at approximately 50 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the AVG_54 level at approximately 50 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL</p> |



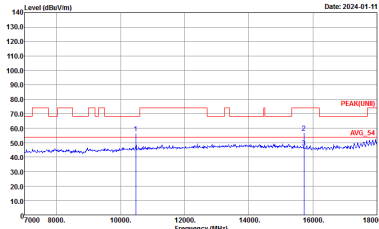
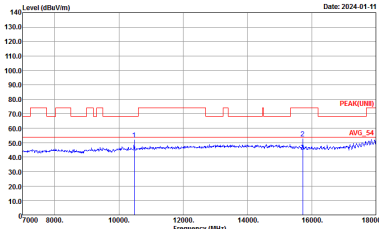
|              |                                                                                                                                             |                                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                           |                                                                                                                                           |
| ANT          | 802.11a CH48 5240MHz                                                                                                                        |                                                                                                                                           |
| 3+6          | Horizontal                                                                                                                                  | Vertical                                                                                                                                  |
| Peak<br>Avg. | <div><p>Level (dBu/Vm)</p><p>Date: 2024-01-13</p><p>Site : 03CH15-14Y<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL</p></div> | <div><p>Level (dBu/Vm)</p><p>Date: 2024-01-13</p><p>Site : 03CH15-14Y<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL</p></div> |



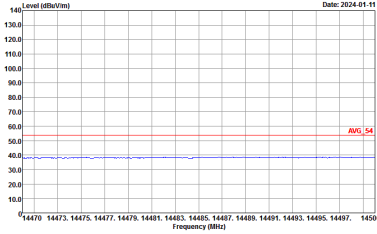
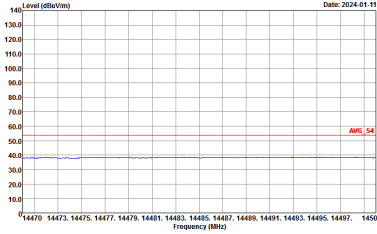
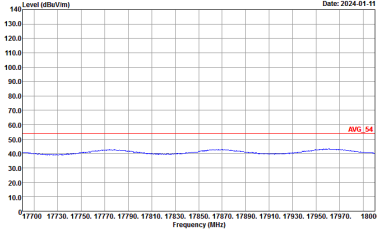
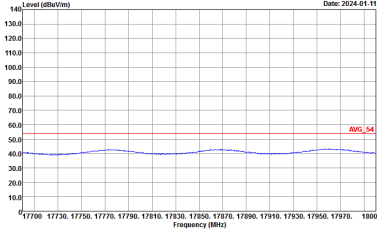
| WIFI                     | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11a CH48 5240MHz                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                          |
| 3+6                      | Horizontal                                                                                                                                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                                                                                                                                 |
| 14.47G<br>~14.5G<br>Avg. | <p>Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 14470 to 14500 MHz. A red line indicates the AVG_54 level at approximately 50 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 14470 to 14500 MHz. A red line indicates the AVG_54 level at approximately 50 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL</p> |
| 17.7G<br>~18G<br>Avg.    | <p>Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 17700 to 18000 MHz. A red line indicates the AVG_54 level at approximately 50 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 17700 to 18000 MHz. A red line indicates the AVG_54 level at approximately 50 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL</p> |



Band 1 5150~5250MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)

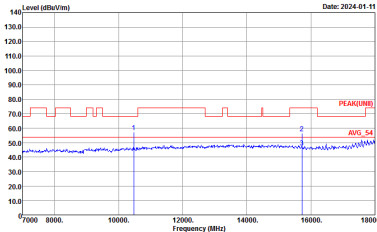
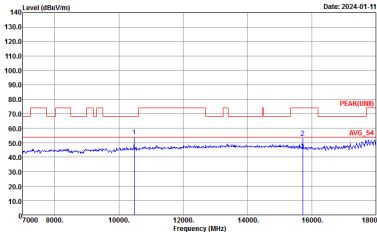
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH48 5240MHz                                                                                                                                                             |                                                                                                                                                                                      |
| 3+6          | Horizontal                                                                                                                                                                            | Vertical                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CHI5-HY<br/>Condition : PEAK(UNII) 3m 9120D_02294_230630 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CHI5-HY<br/>Condition : PEAK(UNII) 3m 9120D_02294_230630 VERTICAL<br/>:</p></div> |



| WIFI                     | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                         |                                                                                                                                                                          |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11n HT20 CH48 5240MHz                                                                                                                                                 |                                                                                                                                                                          |
| 3+6                      | Horizontal                                                                                                                                                                | Vertical                                                                                                                                                                 |
| 14.47G<br>~14.5G<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>.</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>.</p>   |
|                          |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>.</p> |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>.</p> |



Band 1 5150~5250MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

|              |                                                                                                                                                                                       |                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                      |
| ANT          | 802.11ac VHT20 CH48 5240MHz                                                                                                                                                           |                                                                                                                                                                                      |
| 3+6          | Horizontal                                                                                                                                                                            | Vertical                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 9120D_02294_230630 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 9120D_02294_230630 VERTICAL<br/>:</p></div> |



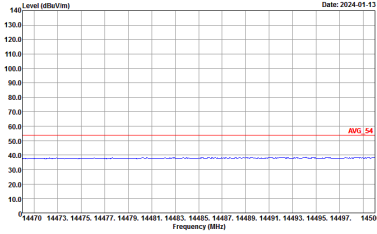
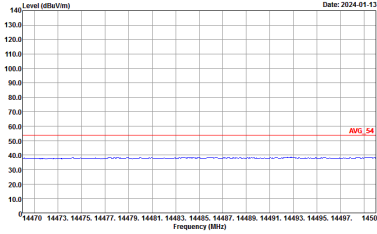
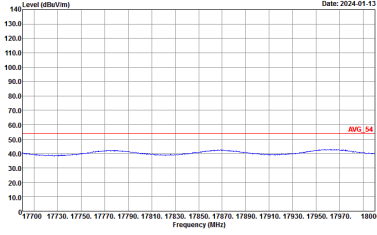
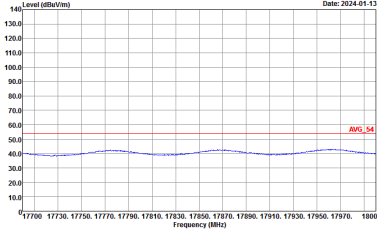
| WIFI                     | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11ac VHT20 CH48 5240MHz                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3+6                      | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                         | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 14.47G<br>~14.5G<br>Avg. | <p>Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the average level (AVG_54) at approximately 50 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the average level (AVG_54) at approximately 50 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL</p> |
|                          | <p>Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the average level (AVG_54) at approximately 50 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL</p> | <p>Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the average level (AVG_54) at approximately 50 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL</p> |



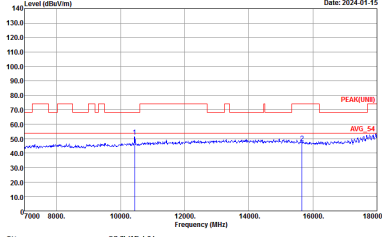
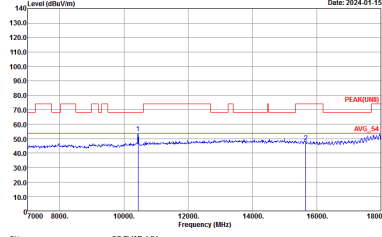
Band 1 - 5150~5250MHz  
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                |                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ax HE20 Full CH36 5180MHz                                                                                                                  |                                                                                                                                                |
| 3+6          | Horizontal                                                                                                                                       | Vertical                                                                                                                                       |
| Peak<br>Avg. | <div><p>Level (dBμV/m)</p><p>Date: 2024-01-13</p><p>Site : 03CH15-HY<br/>Condition : PEAK(UNII) 3m 9120D_02294_230630 HORIZONTAL<br/>:</p></div> | <div><p>Level (dBμV/m)</p><p>Date: 2024-01-13</p><p>Site : 03CH15-HY<br/>Condition : PEAK(UNII) 3m 9120D_02294_230630 VERTICAL<br/>:</p></div> |

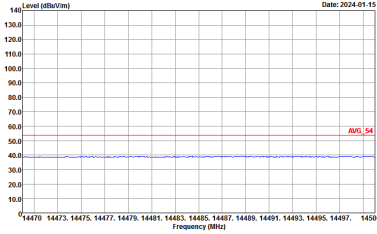
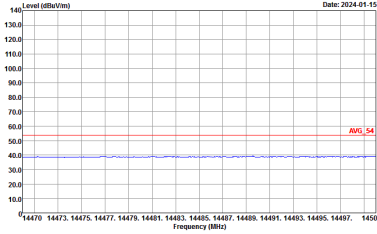
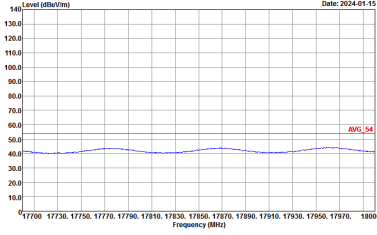
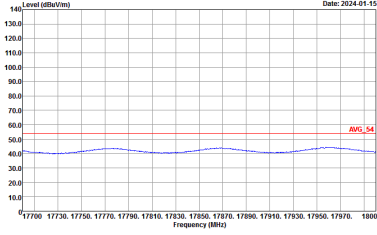


| WIFI                     | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                         |                                                                                                                                                                          |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11ax HE20 Full CH36 5180MHz                                                                                                                                           |                                                                                                                                                                          |
| 3+6                      | Horizontal                                                                                                                                                                | Vertical                                                                                                                                                                 |
| 14.47G<br>~14.5G<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>.</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>.</p>   |
|                          |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>.</p> |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>.</p> |



|              |                                                                                                                                                                                  |                                                                                                                                                                                 |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                |                                                                                                                                                                                 |
| ANT          | 802.11ax HE20 Full CH44 5220MHz                                                                                                                                                  |                                                                                                                                                                                 |
| 3+6          | Horizontal                                                                                                                                                                       | Vertical                                                                                                                                                                        |
| Peak<br>Avg. | <div><p>Site : 03CH15-14Y<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL</p></div> | <div><p>Site : 03CH15-14Y<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL</p></div> |

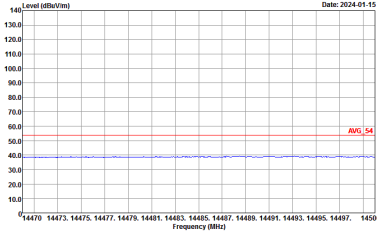
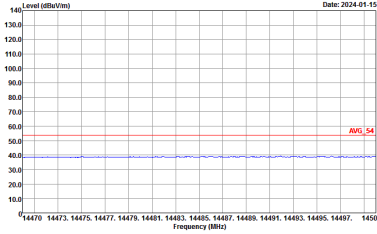
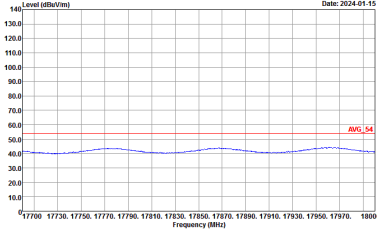
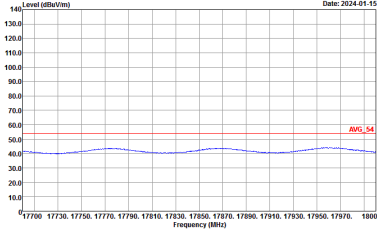


| WIFI                     | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                   |                                                                                                                                                                    |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11ax HE20 Full CH44 5220MHz                                                                                                                                     |                                                                                                                                                                    |
| 3+6                      | Horizontal                                                                                                                                                          | Vertical                                                                                                                                                           |
| 14.47G<br>~14.5G<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL</p>   |
|                          |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL</p> |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL</p> |



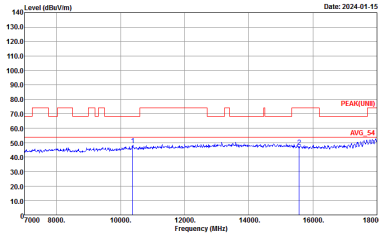
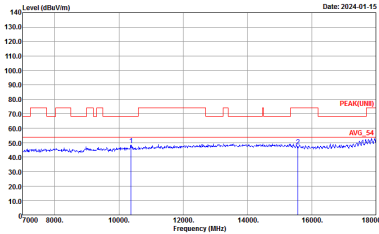
|              |                                                                                                                                             |                                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                           |                                                                                                                                           |
| ANT          | 802.11ax HE20 Full CH48 5240MHz                                                                                                             |                                                                                                                                           |
| 3+6          | Horizontal                                                                                                                                  | Vertical                                                                                                                                  |
| Peak<br>Avg. | <div><p>Level (dBu/Vm)</p><p>Date: 2024-01-15</p><p>Site : 03CH15-14Y<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL</p></div> | <div><p>Level (dBu/Vm)</p><p>Date: 2024-01-15</p><p>Site : 03CH15-14Y<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL</p></div> |



| WIFI                     | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                   |                                                                                                                                                                    |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11ax HE20 Full CH48 5240MHz                                                                                                                                     |                                                                                                                                                                    |
| 3+6                      | Horizontal                                                                                                                                                          | Vertical                                                                                                                                                           |
| 14.47G<br>~14.5G<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL</p>   |
|                          |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL</p> |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL</p> |



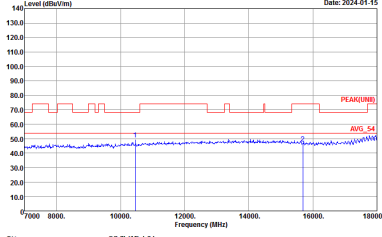
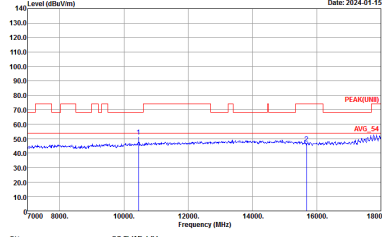
Band 1 5150~5250MHz  
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

|              |                                                                                                                                                                                       |                                                                                                                                                                                      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                     |                                                                                                                                                                                      |
| ANT          | 802.11ax HE40 Full CH38 5190MHz                                                                                                                                                       |                                                                                                                                                                                      |
| 3+6          | Horizontal                                                                                                                                                                            | Vertical                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH15-HY<br/>Condition : PEAK(UNII) 3m 9120D_02294_230630 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CH15-HY<br/>Condition : PEAK(UNII) 3m 9120D_02294_230630 VERTICAL<br/>:</p></div> |

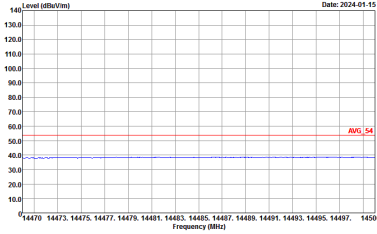
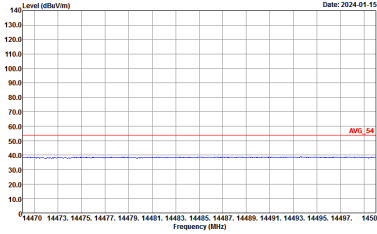
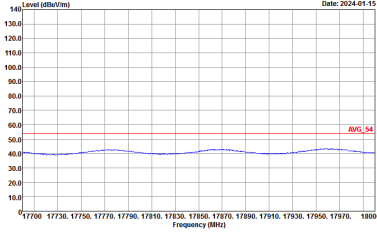
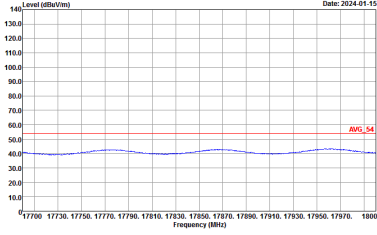


| WIFI                     | Band 1 5150~5250MHz Harmonic @ 3m                                                     |                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ANT                      | 802.11ax HE40 Full CH38 5190MHz                                                       |                                                                                     |
| 3+6                      | Horizontal                                                                            | Vertical                                                                            |
| 14.47G<br>~14.5G<br>Avg. | <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>.</p> | <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>.</p> |
|                          | <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>.</p> | <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>.</p> |



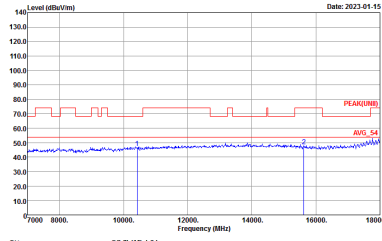
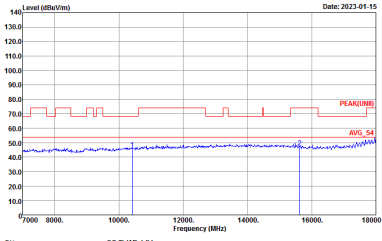
|              |                                                                                                                                                                                  |                                                                                                                                                                                 |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                |                                                                                                                                                                                 |
| ANT          | 802.11ax HE40 Full CH46 5230MHz                                                                                                                                                  |                                                                                                                                                                                 |
| 3+6          | Horizontal                                                                                                                                                                       | Vertical                                                                                                                                                                        |
| Peak<br>Avg. | <div><p>Site : 03CH15-14Y<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL</p></div> | <div><p>Site : 03CH15-14Y<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL</p></div> |



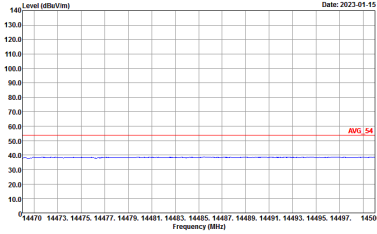
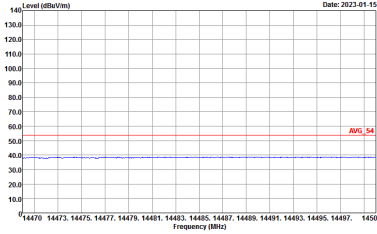
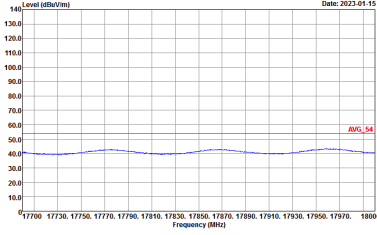
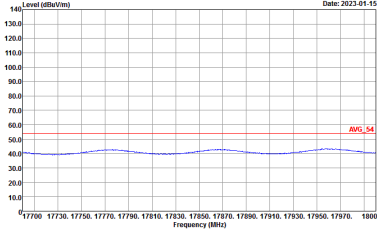
| WIFI                     | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                         |                                                                                                                                                                          |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11ax HE40 Full CH46 5230MHz                                                                                                                                           |                                                                                                                                                                          |
| 3+6                      | Horizontal                                                                                                                                                                | Vertical                                                                                                                                                                 |
| 14.47G<br>~14.5G<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>.</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>.</p>   |
|                          |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>.</p> |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>.</p> |



Band 1 5150~5250MHz  
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

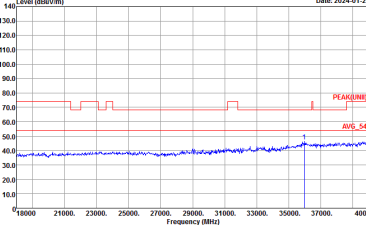
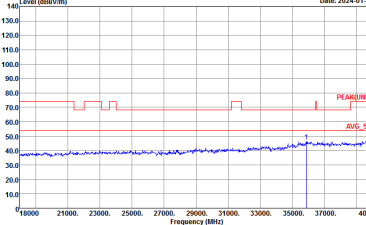
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                           |                                                                                                                                                                            |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ax HE80 Full CH42 5210MHz                                                                                                                                             |                                                                                                                                                                            |
| 3+6          | Horizontal                                                                                                                                                                  | Vertical                                                                                                                                                                   |
| Peak<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 HORIZONTAL<br/>:</p> |  <p>Site : 03CH15-HY<br/>Condition : PEAK(UNIT) 3m 91200_02294_230630 VERTICAL<br/>:</p> |



| WIFI                     | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                         |                                                                                                                                                                          |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                      | 802.11ax HE80 Full CH42 5210MHz                                                                                                                                           |                                                                                                                                                                          |
| 3+6                      | Horizontal                                                                                                                                                                | Vertical                                                                                                                                                                 |
| 14.47G<br>~14.5G<br>Avg. |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>.</p>   |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>.</p>   |
|                          |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 HORIZONTAL<br/>.</p> |  <p>Site : 03CH15-HY<br/>Condition : AVG_54 3m 91200_02294_230630 VERTICAL<br/>.</p> |



Emission above 18GHz  
5GHz WIFI 802.11n HT20 (SHF @ 1m)

| WIFI         | 5GHz WIFI                                                                                                                                                                          |                                                                                                                                                                                   |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 SHF                                                                                                                                                                   |                                                                                                                                                                                   |
| 3+6          | Horizontal                                                                                                                                                                         | Vertical                                                                                                                                                                          |
| Peak<br>Avg. | <div><p>Site : 03CHI5-HY<br/>Condition : PEAK(UNIT) 1m SHF_1225_230710 HORIZONTAL<br/>:</p></div> | <div><p>Site : 03CHI5-HY<br/>Condition : PEAK(UNIT) 1m SHF_1225_230710 VERTICAL<br/>:</p></div> |