



# FCC RADIO TEST REPORT

**FCC ID** : TX2-RTL8822C  
**Equipment** : Module  
**Brand Name** : Realtek  
**Model Name** : RTL8822C  
**Marketing Name** : 11a/b/g/n/ac RTL8822C Combo module  
**Applicant** : Realtek Semiconductor Corp.  
No. 2, Innovation Road II, Hsinchu Science  
Park, Hsinchu 300, Taiwan  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Sep. 01, 2022 and testing was performed from Sep. 16, 2022 to Nov. 04, 2022. We, Sporton International Inc. EMC & Wireless Communications 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 partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

**Sporton International Inc. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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### History of this test report

| Report No. | Version | Description             | Issue Date    |
|------------|---------|-------------------------|---------------|
| FR290129D  | 01      | Initial issue of report | Nov. 04, 2022 |
|            |         |                         |               |
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|            |         |                         |               |



## Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items                     | Result (PASS/FAIL) | Remark                                  |
|---------------|-----------------|--------------------------------|--------------------|---|
| -             | 15.403(i)       | 26dB Bandwidth                 | -                  | See Note                                |
| -             | 2.1049          | 99% Occupied Bandwidth         | -                  | See Note                                |
| 3.1           | 15.407(a)       | Maximum Conducted Output Power | Pass               | -                                       |
| -             | 15.407(a)       | Power Spectral Density         | -                  | See Note                                |
| 3.2           | 15.407(b)       | Unwanted Emissions             | Pass               | 2.40 dB under the limit at 5149.500 MHz |
| 3.3           | 15.207          | AC Conducted Emission          | Pass               | 11.81 dB under the limit at 0.179 MHz   |
| 3.4           | 15.203          | Antenna Requirement            | Pass               | -                                       |

**Note:** The module (Model: RTL8822C) makes no difference after verifying output power, this report reuses test data from the module report.

**Declaration of Conformity:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.  
It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Uncertainty of Evaluation".

**Comments and Explanations:**

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Keven Cheng**

**Report Producer: Dewi Huang**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac and Wi-Fi 5GHz 802.11a/n/ac.

| Product Feature         |   |
|-------------------------|---|
| Installed into the Host | Equipment Name: Steam Deck<br>Brand Name: Valve<br>Model Name: 1010             |
| Sample 1                | EUT with INPAQ Antenna  |
| Sample 2                | EUT with AWAN Antenna   |
| Sample 3                | EUT with High-Tek Antenna   |
| Antenna Type            | WLAN<br><Main>: PIFA Antenna<br><Aux.>: PIFA Antenna<br>Bluetooth: PIFA Antenna |

| Antenna Information |                 |  |  |  |
|---------------------|-----------------|--|--|--|
| INPAQ Antenna       | Antenna Type    | PIFA Antenna   |  |  |
|                     | Part Number     | DQ600015300<br>(WA-P-LE-02-153)                                      | DQ600004300<br>(WA-P-LE-01-043)                                      |  |
|                     | Peak gain (dBi) | Main Antenna   | Aux. Antenna   |  |
|                     |                 | WLAN (5GHz B1): 2.56<br>WLAN (5GHz B2): 2.56<br>WLAN (5GHz B3): 2.77 | WLAN (5GHz B1): 2.23<br>WLAN (5GHz B2): 2.23<br>WLAN (5GHz B3): 3.46 |  |
| AWAN Antenna        | Antenna Type    | PIFA Antenna   |  |  |
|                     | Part Number     | DQ610001400<br>(AEP6Y-100014)  | DQ610001500<br>(AEP6Y-100015)  |  |
|                     | Peak gain (dBi) | Main Antenna   | Aux. Antenna   |  |
|                     |                 | WLAN (5GHz B1): 0.69<br>WLAN (5GHz B2): 0.54<br>WLAN (5GHz B3):1.45  | WLAN (5GHz B1): 1.71<br>WLAN (5GHz B2): 1.53<br>WLAN (5GHz B3):2.74  |  |
| HTK Antenna         | Antenna Type    | PIFA Antenna   |  |  |
|                     | Part Number     | DQ60ACQD0E5<br>(0ACQD022049N)  | DQ60ACQD0E4<br>(0ACQD022050N)  |  |
|                     | Peak gain (dBi) | Main Antenna   | Aux. Antenna   |  |
|                     |                 | WLAN (5GHz B1): 0.86<br>WLAN (5GHz B2): 1.87<br>WLAN (5GHz B3): 2.29 | WLAN (5GHz B1): 2.35<br>WLAN (5GHz B2): 2.87<br>WLAN (5GHz B3): 2.57 |  |

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.

### 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.

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

where

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

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

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

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

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

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

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



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

|          |                  |                  | DG<br>for<br>Power<br>(dBi) | DG<br>for<br>PSD<br>(dBi) | Power<br>Limit<br>Reduction<br>(dB) | PSD<br>Limit<br>Reduction<br>(dB) |
|----------|------------------|------------------|-----------------------------|---------------------------|-------------------------------------|-----------------------------------|
|          | Chain 1<br>(dBi) | Chain 0<br>(dBi) |                             |                           |                                     |                                   |
| Band I   | 2.56             | 2.23             | 2.56                        | 5.41                      | 0.00                                | 0.00                              |
| Band II  | 2.56             | 2.23             | 2.56                        | 5.41                      | 0.00                                | 0.00                              |
| Band III | 2.77             | 3.46             | 3.46                        | 6.13                      | 0.00                                | 0.13                              |

Calculation example:

If a device has two antenna,  $G_{ANT1}= 2.56\text{dBi}$ ;  $G_{ANT2}=2.23\text{dBi}$

Directional gain of power measurement =  $\max(2.56, 2.23) + 0 = 2.56 \text{ dBi}$

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[ 10^{(2.56 \text{ dBi} / 20)} + 10^{(2.23 \text{ dBi} / 20)} \right]^2 \right\} / 2$$

$$= 5.41 \text{ dBi}$$

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

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

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

|                           |   |
|---------------------------|---|
| <b>Test Site</b>          | Sporton International Inc. EMC & Wireless Communications Laboratory   |
| <b>Test Site Location</b> | No.52, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City 333, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b><br>CO05-HY, 03CH07-HY   |

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

|                           |  |
|---------------------------|--|
| <b>Test Site</b>          | Sporton International Inc. Wensan Laboratory   |
| <b>Test Site Location</b> | 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 |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b><br>TH05-HY (TAF Code: 3786)  |
| <b>Remark</b>             | The Conducted test item subcontracted to Sporton International Inc. Wensan Laboratory.   |

FCC designation No.: TW1190 and 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). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

| Frequency Band                       | Channel         | Freq. (MHz) | Channel | Freq. (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        |         |             |

| Frequency Band                        | Channel         | Freq. (MHz) | Channel | Freq. (MHz) |
|---------------------------------------|-----------------|-------------|---------|-------------|
| 5250-5350 MHz<br>Band 2<br>(U-NII-2A) | 52              | 5260        | 60      | 5300        |
|                                       | 54*             | 5270        | 62*     | 5310        |
|                                       | 56              | 5280        | 64      | 5320        |
|                                       | 58 <sup>#</sup> | 5290        |         |             |

| Frequency Band                        | Channel          | Freq. (MHz) | Channel | Freq. (MHz) |
|---------------------------------------|------------------|-------------|---------|-------------|
| 5470-5725 MHz<br>Band 3<br>(U-NII-2C) | 100              | 5500        | 112     | 5560        |
|                                       | 102*             | 5510        | 116     | 5580        |
|                                       | 104              | 5520        | 132     | 5660        |
|                                       | 106 <sup>#</sup> | 5530        | 134*    | 5670        |
|                                       | 108              | 5540        | 136     | 5680        |
|                                       | 110*             | 5550        | 140     | 5700        |



| Frequency Band | Channel          | Freq. (MHz) | Channel | Freq. (MHz) |
|----------------|------------------|-------------|---------|-------------|
| TDWR Channel   | 118*             | 5590        | 124     | 5620        |
|                | 120              | 5600        | 126*    | 5630        |
|                | 122 <sup>#</sup> | 5610        | 128     | 5640        |

**Note:**

1. The above Frequency and Channel with "\*" are 802.11n HT40 and 802 and 11ac VHT40.
2. The above Frequency and Channel with "<sup>#</sup>" is 802.11ac VHT80.



## 2.2 Test Mode

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

### MIMO Mode

| Modulation     | Data Rate |
|----------------|-----------|
| 802.11a        | 6 Mbps    |
| 802.11n HT20   | MCS0      |
| 802.11n HT40   | MCS0      |
| 802.11ac VHT20 | MCS0      |
| 802.11ac VHT40 | MCS0      |
| 802.11ac VHT80 | MCS0      |

**Remark:** The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

| Test Cases  |   |
|---|---|
| AC<br>Conducted<br>Emission   | Mode 1 : Bluetooth Link + WLAN (5GHz) Link + Adapter for Sample 1 |
| <b>Remark:</b> For Radiated Test Cases, the tests were performed with Sample 1. |   |



| Ch. # |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11a                | 802.11a                 | 802.11a                 |
| L     | Low    | 36                     | -                       | 100                     |
| M     | Middle | 40                     | 60                      | 116                     |
| H     | High   | -                      | 64                      | 140                     |

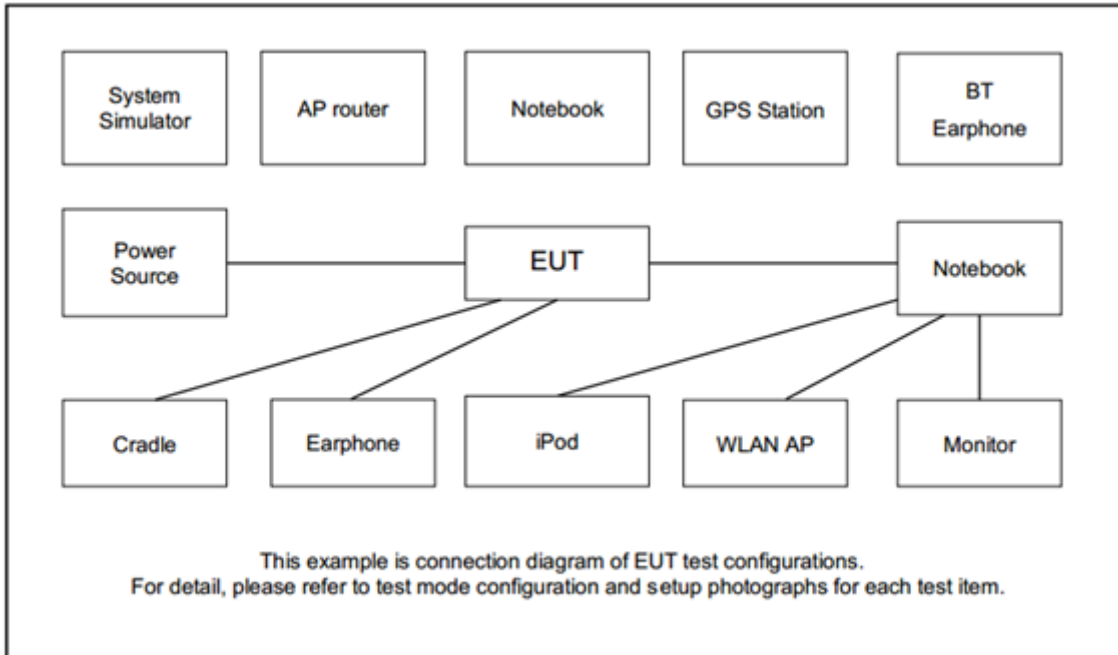
| Ch. # |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11ac VHT20         | 802.11ac VHT20          | 802.11ac VHT20          |
| L     | Low    | 36                     | -                       | 100                     |
| M     | Middle | 40                     | 60                      | 116                     |
| H     | High   | -                      | 64                      | 140                     |

| Ch. # |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11ac VHT40         | 802.11ac VHT40          | 802.11ac VHT40          |
| L     | Low    | 38                     | -                       | 102                     |
| M     | Middle | -                      | -                       | -                       |
| H     | High   | -                      | 62                      | 134                     |

| Ch. # |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11ac VHT80         | 802.11ac VHT80          | 802.11ac VHT80          |
| L     | Low    | -                      | -                       | 106                     |
| M     | Middle | 42                     | 58                      | -                       |
| H     | High   | -                      | -                       | -                       |

**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.   | Bluetooth Earphone | Sony Ericsson | MW600         | PY7DDA-2029  | N/A               | N/A  |
| 2.   | WLAN AP            | ASUS          | RT-AC66U      | MSQ-RTAC66U  | N/A               | Unshielded, 1.8 m  |
| 3.   | iPod Earphone      | Apple         | N/A           | Verification | Unshielded, 1.0 m | N/A  |
| 4.   | Notebook           | Dell          | Latitude 3400 | FCC DoC      | N/A               | AC I/P :<br>Unshielded, 1.2m<br>DC O/P :<br>Shielded, 1.8m |

### 2.5 EUT Operation Test Setup

The RF test items, utility “VTE version 0.60.3” was installed in Host 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.



### 3 Test Result

#### 3.1 Maximum Conducted Output Power Measurement

##### 3.1.1 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.

**For the 5.25–5.725 GHz bands:**

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm  $10 \log B$ , where B is the 26 dB emission bandwidth in megahertz.

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.

##### 3.1.2 Measuring Instruments

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

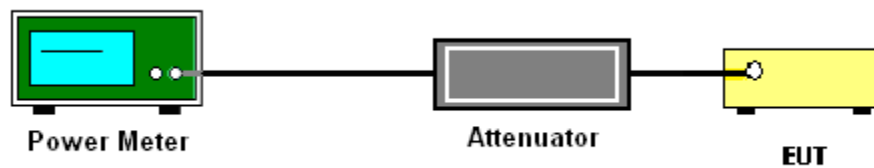
### 3.1.3 Test Procedures

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

### 3.1.4 Test Setup



### 3.1.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



### 3.2 Unwanted Emissions Measurement

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

#### 3.2.1 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.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table:

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

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

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





| EIRP (dBm) | Field Strength at 3m (dBμV/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.

### 3.2.2 Measuring Instruments

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

### 3.2.3 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 ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

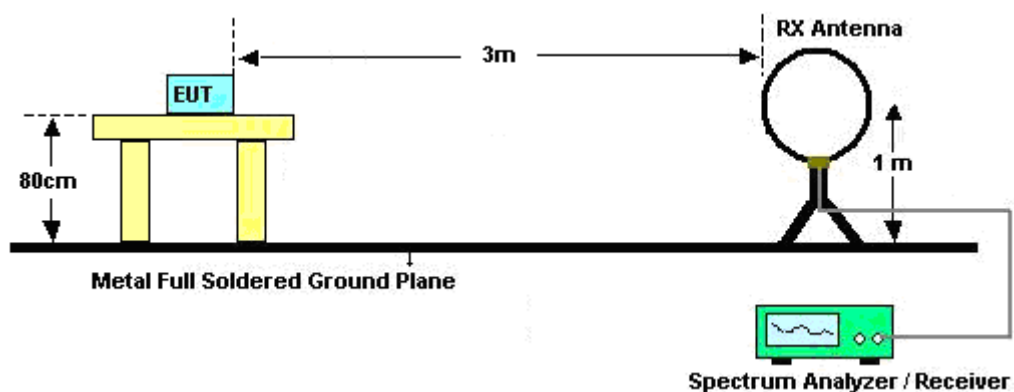
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

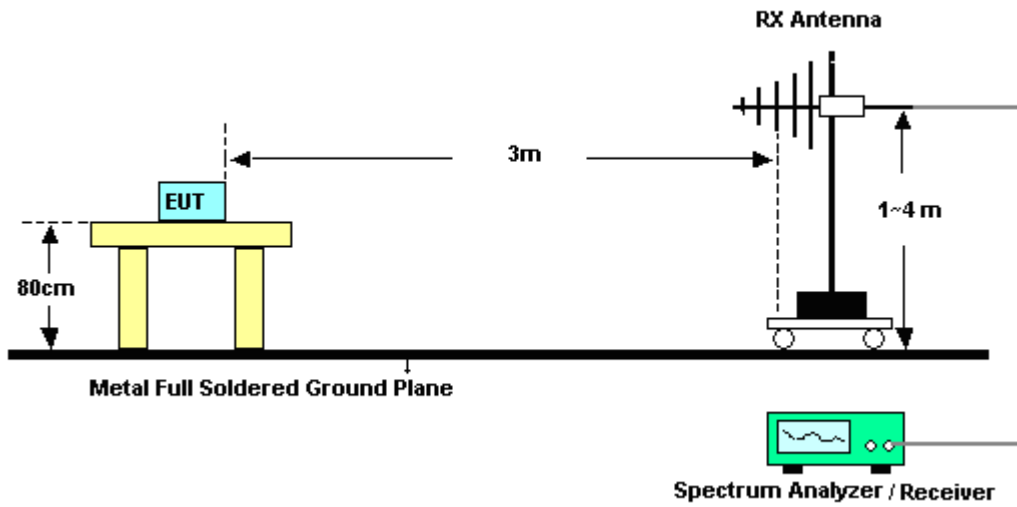
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna 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 “-“.

### 3.2.4 Test Setup

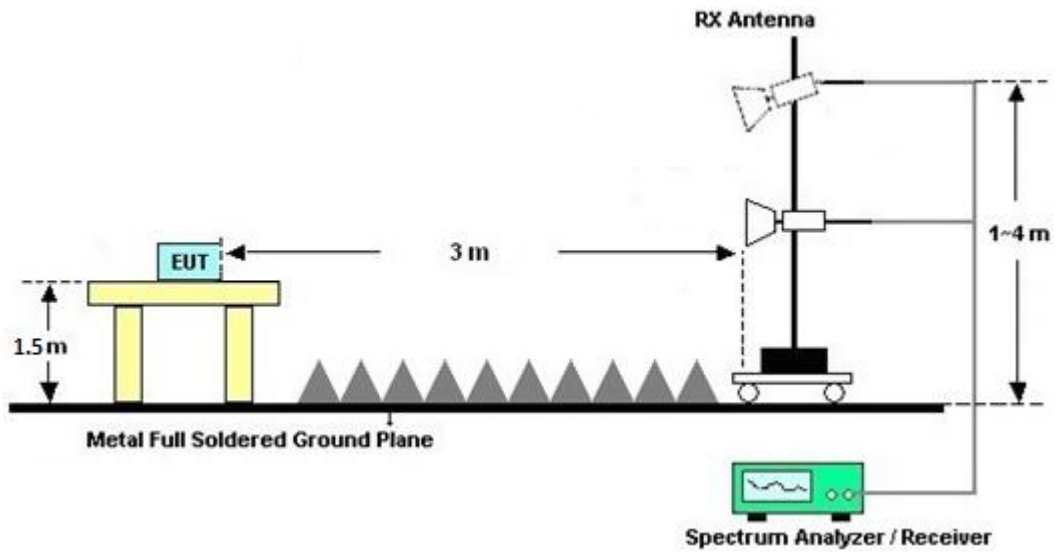
For radiated emissions below 30MHz



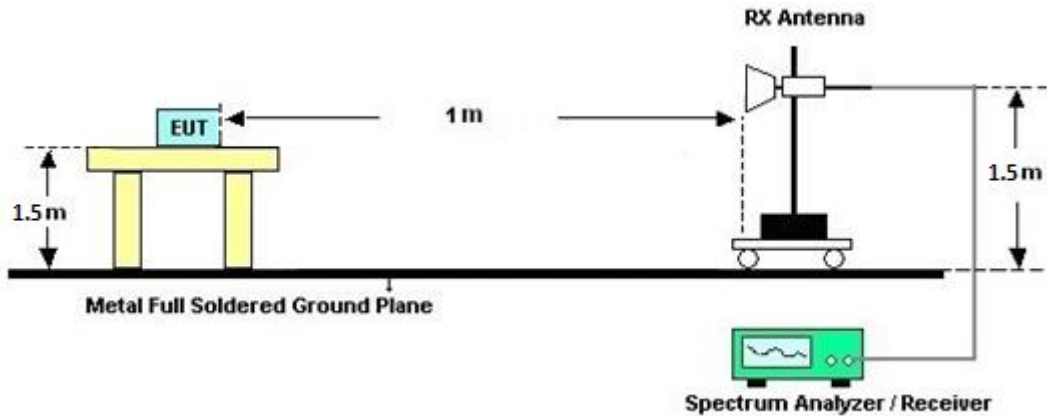
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



### 3.2.5 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.

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

Please refer to Appendix C and D.

### 3.2.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.



### 3.3 AC Conducted Emission Measurement

#### 3.3.1 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.

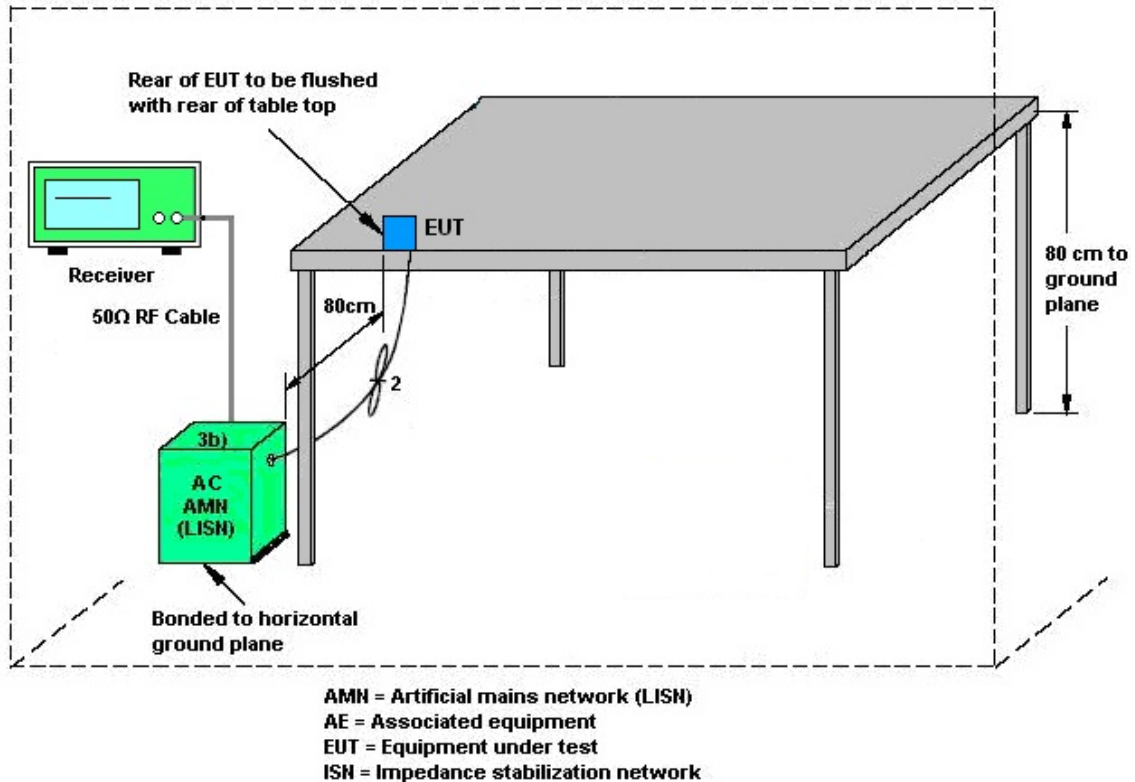
#### 3.3.2 Measuring Instruments

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

#### 3.3.3 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.

### 3.3.4 Test Setup



### 3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.4 Antenna Requirements**

### **3.4.1 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.

### **3.4.2 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                |
|---------------------------|-----------------|----------------------------|-------------|----------------------|------------------|-----------------------------|---------------|-----------------------|
| Bilog Antenna             | TESEQ           | CBL 6111D & 00800N1D01N-06 | 35419 & 03  | 30MHz~1GHz           | Apr. 24, 2022    | Oct. 21, 2022~Nov. 04, 2022 | Apr. 23, 2023 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO            | 3117                       | 00075962    | 1GHz ~ 18GHz         | Dec. 03, 2021    | Oct. 21, 2022~Nov. 04, 2022 | Dec. 02, 2022 | Radiation (03CH07-HY) |
| Loop Antenna              | Rohde & Schwarz | HFH2-Z2                    | 100315      | 9 kHz~30 MHz         | Jan. 07, 2022    | Oct. 21, 2022~Nov. 04, 2022 | Jan. 06, 2023 | Radiation (03CH07-HY) |
| Preamplifier              | MITEQ           | AMF-7D-0010 1800-30-10P    | 1590075     | 1GHz~18GHz           | Apr. 21, 2022    | Oct. 21, 2022~Nov. 04, 2022 | Apr. 20, 2023 | Radiation (03CH07-HY) |
| Preamplifier              | COM-POWER       | PA-103A                    | 161241      | 10MHz~1GHz           | Oct. 03, 2022    | Oct. 21, 2022~Nov. 04, 2022 | Oct. 02, 2023 | Radiation (03CH07-HY) |
| Preamplifier              | Agilent         | 8449B                      | 3008A02362  | 1GHz~26.5GHz         | Oct. 03, 2022    | Oct. 21, 2022~Nov. 04, 2022 | Oct. 02, 2023 | Radiation (03CH07-HY) |
| Preamplifier              | EMEC            | EM18G40G                   | 0600789     | 18-40GHz             | Jul. 21, 2022    | Oct. 21, 2022~Nov. 04, 2022 | Jul. 20, 2023 | Radiation (03CH07-HY) |
| Spectrum Analyzer         | Agilent         | N9030A                     | MY52350276  | 3Hz~44GHz            | Jul. 22, 2022    | Oct. 21, 2022~Nov. 04, 2022 | Jul. 21, 2023 | Radiation (03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 104               | MY15682/4   | 30MHz to 18GHz       | Feb. 23, 2022    | Oct. 21, 2022~Nov. 04, 2022 | Feb. 22, 2023 | Radiation (03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 104               | MY24971/4   | 9kHz to 18GHz        | Feb. 23, 2022    | Oct. 21, 2022~Nov. 04, 2022 | Feb. 22, 2023 | Radiation (03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 104               | MY28655/4   | 9kHz to 18GHz        | Feb. 23, 2022    | Oct. 21, 2022~Nov. 04, 2022 | Feb. 22, 2023 | Radiation (03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 126               | 532078/126E | 30MHz~18GHz          | Sep. 16, 2022    | Oct. 21, 2022~Nov. 04, 2022 | Sep. 15, 2023 | Radiation (03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 102               | MY2858/2    | 18GHz~40GHz          | Feb. 23, 2022    | Oct. 21, 2022~Nov. 04, 2022 | Feb. 22, 2023 | Radiation (03CH07-HY) |
| Controller                | EMEC            | EM1000                     | N/A         | Control Ant Mast     | N/A              | Oct. 21, 2022~Nov. 04, 2022 | N/A           | Radiation (03CH07-HY) |
| Controller                | MF              | MF-7802                    | N/A         | Control Turn table   | N/A              | Oct. 21, 2022~Nov. 04, 2022 | N/A           | Radiation (03CH07-HY) |
| Antenna Mast              | EMEC            | AM-BS-4500E                | N/A         | Boresight mast 1M~4M | N/A              | Oct. 21, 2022~Nov. 04, 2022 | N/A           | Radiation (03CH07-HY) |
| Turn Table                | ChainTek        | Chaintek 3000              | N/A         | 0~360 Degree         | N/A              | Oct. 21, 2022~Nov. 04, 2022 | N/A           | Radiation (03CH07-HY) |
| Software                  | Audix           | E3                         | N/A         | N/A                  | N/A              | Oct. 21, 2022~Nov. 04, 2022 | N/A           | Radiation (03CH07-HY) |
| USB Data Logger           | TECPEL          | TR-32                      | HE17XB2495  | N/A                  | Mar. 07, 2022    | Oct. 21, 2022~Nov. 04, 2022 | Mar. 06, 2023 | Radiation (03CH07-HY) |
| EMI Test Receiver         | Agilent         | N9038A(MXE)                | MY53290053  | 20Hz~26.5GHz         | May 27, 2022     | Oct. 21, 2022~Nov. 04, 2022 | May 26, 2023  | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna      | SCHWARZBECK     | BBHA 9170                  | BBHA9170251 | 18GHz~40GHz          | Nov. 30, 2021    | Oct. 21, 2022~Nov. 04, 2022 | Nov. 29, 2022 | Radiation (03CH07-HY) |





| Instrument        | Brand Name      | Model No.     | Serial No.                | Characteristics | Calibration Date | Test Date                       | Due Date      | Remark               |
|-------------------|-----------------|---------------|---------------------------|-----------------|------------------|---------------------------------|---------------|----------------------|
| AC Power Source   | ChainTek        | APC-1000W     | N/A                       | N/A             | N/A              | Sep. 26, 2022                   | N/A           | Conduction (CO05-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESR3          | 102388                    | 9kHz~3.6GHz     | Dec. 01, 2021    | Sep. 26, 2022                   | Nov. 30, 2022 | Conduction (CO05-HY) |
| Hygrometer        | Testo           | 608-H1        | 34913912                  | N/A             | Nov. 17, 2021    | Sep. 26, 2022                   | Nov. 16, 2022 | Conduction (CO05-HY) |
| LISN              | Rohde & Schwarz | ENV216        | 100080                    | 9kHz~30MHz      | Dec. 03, 2021    | Sep. 26, 2022                   | Dec. 02, 2022 | Conduction (CO05-HY) |
| Software          | Rohde & Schwarz | EMC32         | N/A                       | N/A             | N/A              | Sep. 26, 2022                   | N/A           | Conduction (CO05-HY) |
| Pulse Limiter     | SCHWARZBECK     | VTSD 9561-F N | 00691                     | N/A             | Aug. 01, 2022    | Sep. 26, 2022                   | Jul. 31, 2023 | Conduction (CO05-HY) |
| LISN Cable        | MVE             | RG-400        | 260260                    | N/A             | Dec. 30, 2021    | Sep. 26, 2022                   | Dec. 29, 2022 | Conduction (CO05-HY) |
| Hygrometer        | TECPEL          | DTM-303A      | TP201996                  | N/A             | Nov. 16, 2021    | Sep. 16, 2022~<br>Oct. 27, 2022 | Nov. 15, 2022 | Conducted (TH05-HY)  |
| Power Sensor      | DARE            | RPR3006W      | 15I00041SNO10<br>(NO:248) | 10MHz~6GHz      | Dec. 29, 2021    | Sep. 16, 2022~<br>Oct. 27, 2022 | Dec. 28, 2022 | Conducted (TH05-HY)  |
| Signal Analyzer   | Rohde & Schwarz | FSV40         | 101905                    | 10Hz - 40GHz    | Aug. 03, 2022    | Sep. 16, 2022~<br>Oct. 27, 2022 | Aug. 02, 2023 | Conducted (TH05-HY)  |



## 5 Uncertainty of Evaluation

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

|   |         |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.10 dB |
|---|---------|

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

|   |         |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 6.50 dB |
|---|---------|

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

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

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

|   |         |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.20 dB |
|---|---------|

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

|   |         |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.30 dB |
|---|---------|

## Appendix A. Test Result of Conducted Test Items

|                |                                      |                    |       |    |
|----------------|--------------------------------------|--------------------|-------|----|
| Test Engineer: | Willy Chang, Paul Lin and Ching Chen | Temperature:       | 21~25 | °C |
| Test Date:     | 2022/9/16-2022/10/27                 | Relative Humidity: | 51~54 | %  |

**Remark:** For Conducted Test Items, Ant. 1 means Chain 1 and Ant. 2 means Chain 0.

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

| Mod.  | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | Pass/Fail |
|-------|-----------|-----|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|-----------|
|       |           |     |     |             | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |           |
| 11a   | 6Mbps     | 2   | 36  | 5180        | 15.70                         | 15.60 | 18.66 | 24.00                           | 24.00 | 2.56     | Pass  |           |
| 11a   | 6Mbps     | 2   | 40  | 5200        | 15.80                         | 16.00 | 18.91 | 24.00                           | 24.00 | 2.56     | Pass  |           |
| 11a   | 6Mbps     | 2   | 48  | 5240        | 16.00                         | 15.90 | 18.96 | 24.00                           | 24.00 | 2.56     | Pass  |           |
| HT20  | MCS0      | 2   | 36  | 5180        | 15.50                         | 15.50 | 18.51 | 24.00                           | 24.00 | 2.56     | Pass  |           |
| HT20  | MCS0      | 2   | 40  | 5200        | 15.70                         | 15.80 | 18.76 | 24.00                           | 24.00 | 2.56     | Pass  |           |
| HT20  | MCS0      | 2   | 48  | 5240        | 15.70                         | 15.80 | 18.76 | 24.00                           | 24.00 | 2.56     | Pass  |           |
| HT40  | MCS0      | 2   | 38  | 5190        | 15.00                         | 15.10 | 18.06 | 24.00                           | 24.00 | 2.56     | Pass  |           |
| HT40  | MCS0      | 2   | 46  | 5230        | 15.30                         | 15.40 | 18.36 | 24.00                           | 24.00 | 2.56     | Pass  |           |
| VHT20 | MCS0      | 2   | 36  | 5180        | 15.70                         | 15.60 | 18.66 | 24.00                           | 24.00 | 2.56     | Pass  |           |
| VHT20 | MCS0      | 2   | 40  | 5220        | 15.80                         | 16.00 | 18.91 | 24.00                           | 24.00 | 2.56     | Pass  |           |
| VHT20 | MCS0      | 2   | 48  | 5240        | 15.90                         | 16.00 | 18.96 | 24.00                           | 24.00 | 2.56     | Pass  |           |
| VHT40 | MCS0      | 2   | 38  | 5190        | 15.10                         | 15.20 | 18.16 | 24.00                           | 24.00 | 2.56     | Pass  |           |
| VHT40 | MCS0      | 2   | 46  | 5230        | 15.40                         | 15.50 | 18.46 | 24.00                           | 24.00 | 2.56     | Pass  |           |
| VHT80 | MCS0      | 2   | 42  | 5210        | 15.10                         | 15.50 | 18.31 | 24.00                           | 24.00 | 2.56     | Pass  |           |

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

| Mod.  | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power Limit (dBm) | Pass/Fail |
|-------|-----------|-----|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|------------------------|-----------|
|       |           |     |     |             | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |                        |           |
| 11a   | 6Mbps     | 2   | 52  | 5260        | 15.90                         | 15.90 | 18.91 | 23.98                           |       | 2.56     | 30    | Pass                   |           |
| 11a   | 6Mbps     | 2   | 60  | 5300        | 15.80                         | 15.90 | 18.86 | 23.98                           |       | 2.56     | 30    | Pass                   |           |
| 11a   | 6Mbps     | 2   | 64  | 5320        | 15.70                         | 16.00 | 18.86 | 23.98                           |       | 2.56     | 30    | Pass                   |           |
| HT20  | MCS0      | 2   | 52  | 5260        | 15.90                         | 15.80 | 18.86 | 23.98                           |       | 2.56     | 30    | Pass                   |           |
| HT20  | MCS0      | 2   | 60  | 5300        | 15.70                         | 15.90 | 18.81 | 23.98                           |       | 2.56     | 30    | Pass                   |           |
| HT20  | MCS0      | 2   | 64  | 5320        | 15.60                         | 16.00 | 18.81 | 23.98                           |       | 2.56     | 30    | Pass                   |           |
| HT40  | MCS0      | 2   | 54  | 5270        | 15.00                         | 15.30 | 18.16 | 23.98                           |       | 2.56     | 30    | Pass                   |           |
| HT40  | MCS0      | 2   | 62  | 5310        | 15.10                         | 15.00 | 18.06 | 23.98                           |       | 2.56     | 30    | Pass                   |           |
| VHT20 | MCS0      | 2   | 52  | 5260        | 16.00                         | 15.90 | 18.96 | 23.98                           |       | 2.56     | 30    | Pass                   |           |
| VHT20 | MCS0      | 2   | 60  | 5300        | 15.80                         | 15.90 | 18.86 | 23.98                           |       | 2.56     | 30    | Pass                   |           |
| VHT20 | MCS0      | 2   | 64  | 5320        | 15.70                         | 16.00 | 18.86 | 23.98                           |       | 2.56     | 30    | Pass                   |           |
| VHT40 | MCS0      | 2   | 54  | 5270        | 15.10                         | 15.40 | 18.26 | 23.98                           |       | 2.56     | 30    | Pass                   |           |
| VHT40 | MCS0      | 2   | 62  | 5310        | 15.20                         | 15.10 | 18.16 | 23.98                           |       | 2.56     | 30    | Pass                   |           |
| VHT80 | MCS0      | 2   | 58  | 5290        | 15.30                         | 15.30 | 18.31 | 23.98                           |       | 2.56     | 30    | Pass                   |           |

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

| FCC Band III MIMO |           |     |     |             |                               |       |       |                                 |       |          |       |                        |           |
|-------------------|-----------|-----|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.              | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power Limit (dBm) | Pass/Fail |
|                   |           |     |     |             | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |                        |           |
| 11a               | 6Mbps     | 2   | 100 | 5500        | 15.90                         | 15.80 | 18.86 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| 11a               | 6Mbps     | 2   | 116 | 5580        | 15.70                         | 15.70 | 18.71 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| 11a               | 6Mbps     | 2   | 140 | 5700        | 15.80                         | 15.70 | 18.76 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| HT20              | MCS0      | 2   | 100 | 5500        | 15.80                         | 15.70 | 18.76 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| HT20              | MCS0      | 2   | 116 | 5580        | 15.60                         | 15.50 | 18.56 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| HT20              | MCS0      | 2   | 140 | 5700        | 15.60                         | 15.70 | 18.66 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| HT40              | MCS0      | 2   | 102 | 5510        | 14.90                         | 15.20 | 18.06 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| HT40              | MCS0      | 2   | 110 | 5550        | 15.20                         | 15.30 | 18.26 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| HT40              | MCS0      | 2   | 134 | 5670        | 15.40                         | 15.20 | 18.31 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| VHT20             | MCS0      | 2   | 100 | 5500        | 15.90                         | 15.80 | 18.86 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| VHT20             | MCS0      | 2   | 116 | 5580        | 15.70                         | 15.70 | 18.71 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| VHT20             | MCS0      | 2   | 140 | 5700        | 15.80                         | 15.80 | 18.81 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| VHT40             | MCS0      | 2   | 102 | 5510        | 15.10                         | 15.30 | 18.21 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| VHT40             | MCS0      | 2   | 110 | 5550        | 15.40                         | 15.50 | 18.46 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| VHT40             | MCS0      | 2   | 134 | 5670        | 15.50                         | 15.30 | 18.41 | 23.98                           |       | 3.46     | 30    | Pass                   |           |
| VHT80             | MCS0      | 2   | 106 | 5530        | 14.40                         | 13.50 | 16.98 | 23.98                           |       | 3.46     | 30    | Pass                   |           |

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

| Mod.  | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | Pass/Fail |
|-------|-----------|-----|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|-----------|
|       |           |     |     |             | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |           |
| 11a   | 6Mbps     | 2   | 149 | 5745        | 15.80                         | 15.70 | 18.76 | 30.00                           |       | 3.64     |       | Pass      |
| 11a   | 6Mbps     | 2   | 157 | 5785        | 15.80                         | 15.90 | 18.86 | 30.00                           |       | 3.64     |       | Pass      |
| 11a   | 6Mbps     | 2   | 165 | 5825        | 15.60                         | 15.60 | 18.61 | 30.00                           |       | 3.64     |       | Pass      |
| HT20  | MCS0      | 2   | 149 | 5745        | 15.70                         | 15.60 | 18.66 | 30.00                           |       | 3.64     |       | Pass      |
| HT20  | MCS0      | 2   | 157 | 5785        | 15.70                         | 15.80 | 18.76 | 30.00                           |       | 3.64     |       | Pass      |
| HT20  | MCS0      | 2   | 165 | 5825        | 15.40                         | 15.50 | 18.46 | 30.00                           |       | 3.64     |       | Pass      |
| HT40  | MCS0      | 2   | 151 | 5755        | 15.20                         | 15.00 | 18.11 | 30.00                           |       | 3.64     |       | Pass      |
| HT40  | MCS0      | 2   | 159 | 5795        | 15.20                         | 15.10 | 18.16 | 30.00                           |       | 3.64     |       | Pass      |
| VHT20 | MCS0      | 2   | 149 | 5745        | 15.80                         | 15.70 | 18.76 | 30.00                           |       | 3.64     |       | Pass      |
| VHT20 | MCS0      | 2   | 157 | 5785        | 15.80                         | 15.90 | 18.86 | 30.00                           |       | 3.64     |       | Pass      |
| VHT20 | MCS0      | 2   | 165 | 5825        | 15.60                         | 15.50 | 18.56 | 30.00                           |       | 3.64     |       | Pass      |
| VHT40 | MCS0      | 2   | 151 | 5755        | 15.30                         | 15.10 | 18.21 | 30.00                           |       | 3.64     |       | Pass      |
| VHT40 | MCS0      | 2   | 159 | 5795        | 15.30                         | 15.30 | 18.31 | 30.00                           |       | 3.64     |       | Pass      |
| VHT80 | MCS0      | 2   | 155 | 5775        | 15.30                         | 15.10 | 18.21 | 30.00                           |       | 3.64     |       | Pass      |



## Appendix B. AC Conducted Emission Test Results

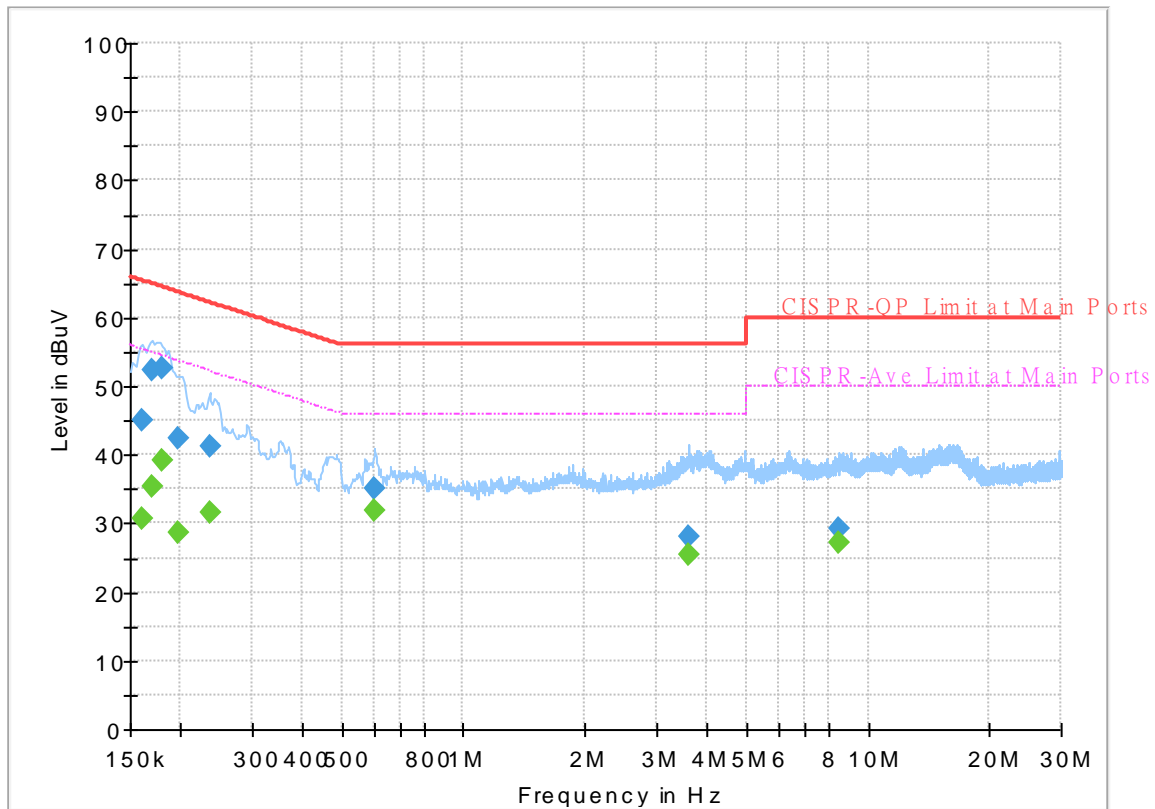
|                 |             |                     |         |
|-----------------|-------------|---------------------|---------|
| Test Engineer : | Calvin Wang | Temperature :       | 23~26°C |
|                 |             | Relative Humidity : | 45~55%  |



## EUT Information

Report NO : 290129  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



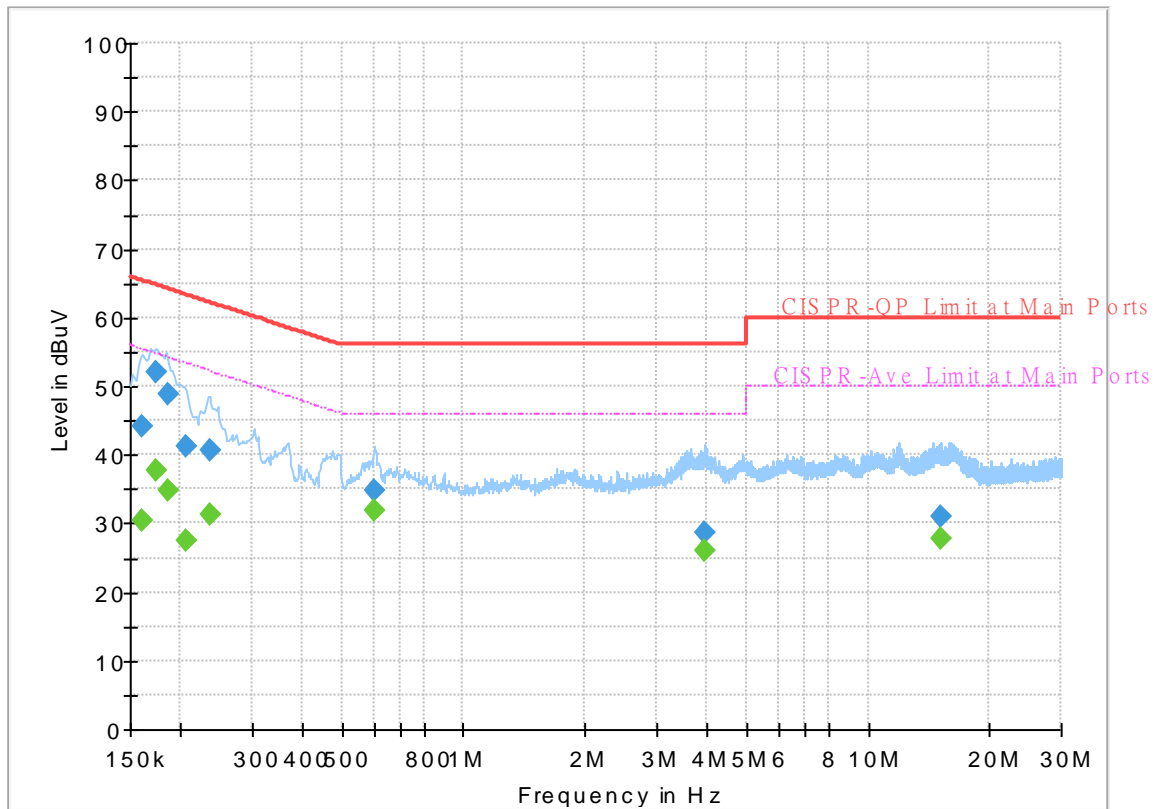
## Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.161250        | ---              | 30.80           | 55.40        | 24.60       | L1   | OFF    | 19.8       |
| 0.161250        | 45.10            | ---             | 65.40        | 20.30       | L1   | OFF    | 19.8       |
| 0.170250        | ---              | 35.34           | 54.95        | 19.61       | L1   | OFF    | 19.8       |
| 0.170250        | 52.44            | ---             | 64.95        | 12.51       | L1   | OFF    | 19.8       |
| 0.179250        | ---              | 39.26           | 54.52        | 15.26       | L1   | OFF    | 19.8       |
| 0.179250        | 52.71            | ---             | 64.52        | 11.81       | L1   | OFF    | 19.8       |
| 0.197250        | ---              | 28.52           | 53.73        | 25.21       | L1   | OFF    | 19.8       |
| 0.197250        | 42.33            | ---             | 63.73        | 21.40       | L1   | OFF    | 19.8       |
| 0.235500        | ---              | 31.54           | 52.25        | 20.71       | L1   | OFF    | 19.8       |
| 0.235500        | 41.21            | ---             | 62.25        | 21.04       | L1   | OFF    | 19.8       |
| 0.602250        | ---              | 31.87           | 46.00        | 14.13       | L1   | OFF    | 19.8       |
| 0.602250        | 35.04            | ---             | 56.00        | 20.96       | L1   | OFF    | 19.8       |
| 3.588000        | ---              | 25.49           | 46.00        | 20.51       | L1   | OFF    | 19.9       |
| 3.588000        | 28.17            | ---             | 56.00        | 27.83       | L1   | OFF    | 19.9       |
| 8.479500        | ---              | 27.09           | 50.00        | 22.91       | L1   | OFF    | 20.1       |
| 8.479500        | 29.30            | ---             | 60.00        | 30.70       | L1   | OFF    | 20.1       |

## EUT Information

Report NO : 290129  
 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) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.161250        | ---              | 30.35           | 55.40        | 25.05       | N    | OFF    | 19.8       |
| 0.161250        | 44.19            | ---             | 65.40        | 21.21       | N    | OFF    | 19.8       |
| 0.174750        | ---              | 37.62           | 54.73        | 17.11       | N    | OFF    | 19.8       |
| 0.174750        | 51.94            | ---             | 64.73        | 12.79       | N    | OFF    | 19.8       |
| 0.186000        | ---              | 34.78           | 54.21        | 19.43       | N    | OFF    | 19.8       |
| 0.186000        | 48.97            | ---             | 64.21        | 15.24       | N    | OFF    | 19.8       |
| 0.206250        | ---              | 27.38           | 53.36        | 25.98       | N    | OFF    | 19.8       |
| 0.206250        | 41.34            | ---             | 63.36        | 22.02       | N    | OFF    | 19.8       |
| 0.237750        | ---              | 31.22           | 52.17        | 20.95       | N    | OFF    | 19.8       |
| 0.237750        | 40.60            | ---             | 62.17        | 21.57       | N    | OFF    | 19.8       |
| 0.602250        | ---              | 31.79           | 46.00        | 14.21       | N    | OFF    | 19.8       |
| 0.602250        | 34.87            | ---             | 56.00        | 21.13       | N    | OFF    | 19.8       |
| 3.936750        | ---              | 26.17           | 46.00        | 19.83       | N    | OFF    | 20.0       |
| 3.936750        | 28.70            | ---             | 56.00        | 27.30       | N    | OFF    | 20.0       |
| 15.069750       | ---              | 27.77           | 50.00        | 22.23       | N    | OFF    | 20.4       |
| 15.069750       | 31.04            | ---             | 60.00        | 28.96       | N    | OFF    | 20.4       |



## Appendix C. Radiated Spurious Emission

|                 |   |                     |             |
|-----------------|---|---------------------|-------------|
| Test Engineer : | Jesse Wang, Stan Hsieh, Ken Wu and Howard | Temperature :       | 22.6~24.5°C |
|                 | Huang                                     | Relative Humidity : | 58.6~61.3%  |

**Remark:** For Radiated Spurious Emission Test Items, Ant. 1 means Chain 1 and Ant. 2 means Chain 0.



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

| WIFI   | Note  | Frequency | Level      | Margin | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |   |
|--|---|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|---|
| Ant.   |   |           |            |        | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |   |
| 1+2  |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |   |
| <b>802.11a</b><br><b>CH 36</b><br><b>5180MHz</b> |   | 5148.2    | 50.94      | -23.06 | 74         | 40.29  | 34.1     | 11.84  | 35.29  | 100    | 84      | P     | H     |   |
|  |   | 5150      | 42.02      | -11.98 | 54         | 31.37  | 34.1     | 11.84  | 35.29  | 100    | 84      | A     | H     |   |
|  | *   | 5180      | 104.46     | -      | -          | 93.62  | 34.22    | 11.88  | 35.26  | 100    | 84      | P     | H     |   |
|  | *   | 5180      | 97.34      | -      | -          | 86.5   | 34.22    | 11.88  | 35.26  | 100    | 84      | A     | H     |   |
|  |   |           |            |        |            |        |          |        |        |        |         |       | H     |   |
|  |   |           |            |        |            |        |          |        |        |        |         |       | H     |   |
|  |   |           | 5148.98    | 50.6   | -23.4      | 74     | 39.95    | 34.1   | 11.84  | 35.29  | 304     | 32    | P     | V |
|  |   |           | 5150       | 41.4   | -12.6      | 54     | 30.75    | 34.1   | 11.84  | 35.29  | 304     | 32    | A     | V |
|  | *   |           | 5180       | 106.53 | -          | -      | 95.69    | 34.22  | 11.88  | 35.26  | 304     | 32    | P     | V |
|  | *   |           | 5180       | 98.95  | -          | -      | 88.11    | 34.22  | 11.88  | 35.26  | 304     | 32    | A     | 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 802.11a (Harmonic @ 3m)**

| WIFI Ant. 1+2                        | Note   | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |   |
|--------------------------------------|--|-------------------|------------------|---------------|-----------------------|-------------------|-------------------------|------------------|----------------------|----------------|-------------------|-----------------|------------|---|
| <b>802.11a<br/>CH 40<br/>5200MHz</b> |  | 10400             | 45.71            | -22.49        | 68.2                  | 48.64             | 37.4                    | 18.44            | 58.77                | -              | -                 | P               | H          |   |
|                                      |  | 15600             | 54.71            | -19.29        | 74                    | 48.51             | 40.2                    | 22.65            | 56.65                | 206            | 124               | P               | H          |   |
|                                      |  | 15600             | 43.07            | -10.93        | 54                    | 36.87             | 40.2                    | 22.65            | 56.65                | 206            | 124               | A               | H          |   |
|                                      |  |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                      |  |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                      |  |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                      |  |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                      |  |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                      |  |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                      |  |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                      |  |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                      |  |                   | 10400            | 45.76         | -22.44                | 68.2              | 48.69                   | 37.4             | 18.44                | 58.77          | -                 | -               | P          | V |
|                                      |  |                   | 15600            | 55.51         | -18.49                | 74                | 49.31                   | 40.2             | 22.65                | 56.65          | 400               | 177             | P          | V |
|                                      |  |                   | 15600            | 42.85         | -11.15                | 54                | 36.65                   | 40.2             | 22.65                | 56.65          | 400               | 177             | 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 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI Ant. 1+2                | Note  | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |   |
|------------------------------|---|-------------------|------------------|---------------|-----------------------|-------------------|-------------------------|------------------|----------------------|----------------|-------------------|-----------------|------------|---|
| 802.11ac VHT20 CH 36 5180MHz |   | 5149.76           | 51.82            | -22.18        | 74                    | 41.17             | 34.1                    | 11.84            | 35.29                | 100            | 84                | P               | H          |   |
|                              |   | 5150              | 42.38            | -11.62        | 54                    | 31.73             | 34.1                    | 11.84            | 35.29                | 100            | 84                | A               | H          |   |
|                              | *   | 5180              | 105.14           | -             | -                     | 94.3              | 34.22                   | 11.88            | 35.26                | 100            | 84                | P               | H          |   |
|                              | *   | 5180              | 97.07            | -             | -                     | 86.23             | 34.22                   | 11.88            | 35.26                | 100            | 84                | A               | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | H |
|                              |   |                   | 5147.16          | 49.67         | -24.33                | 74                | 39.02                   | 34.1             | 11.84                | 35.29          | 304               | 32              | P          | V |
|                              |   |                   | 5150             | 42            | -12                   | 54                | 31.35                   | 34.1             | 11.84                | 35.29          | 304               | 32              | A          | V |
|                              | *   |                   | 5180             | 106.42        | -                     | -                 | 95.58                   | 34.22            | 11.88                | 35.26          | 304               | 32              | P          | V |
|                              | *   |                   | 5180             | 98.9          | -                     | -                 | 88.06                   | 34.22            | 11.88                | 35.26          | 304               | 32              | A          | V |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | 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 802.11ac VHT20 (Harmonic @ 3m)**

| WIFI Ant. 1+2                         | Note  | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |   |
|---------------------------------------|---|-------------------|------------------|---------------|-----------------------|-------------------|-------------------------|------------------|----------------------|----------------|-------------------|-----------------|------------|---|
| 802.11ac<br>VHT20<br>CH 40<br>5200MHz |   | 10400             | 45.3             | -22.9         | 68.2                  | 48.23             | 37.4                    | 18.44            | 58.77                | -              | -                 | P               | H          |   |
|                                       |   | 15600             | 55.68            | -18.32        | 74                    | 49.48             | 40.2                    | 22.65            | 56.65                | 203            | 124               | P               | H          |   |
|                                       |   | 15600             | 43.47            | -10.53        | 54                    | 37.27             | 40.2                    | 22.65            | 56.65                | 203            | 124               | A               | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   | 10400            | 46.46         | -21.74                | 68.2              | 49.39                   | 37.4             | 18.44                | 58.77          | -                 | -               | P          | V |
|                                       |   |                   | 15600            | 55.64         | -18.36                | 74                | 49.44                   | 40.2             | 22.65                | 56.65          | 400               | 177             | P          | V |
|                                       |   |                   | 15600            | 43.13         | -10.87                | 54                | 36.93                   | 40.2             | 22.65                | 56.65          | 400               | 177             | A          | V |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | V |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | V |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | V |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | V |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | V |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
| <b>Remark</b>                         | <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol> |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            |   |



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

| WIFI Ant. 1+2                       | Note  | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|-------------------------------------|---|-------------------|------------------|---------------|-----------------------|-------------------|-------------------------|------------------|----------------------|----------------|-------------------|-----------------|------------|
| <b>802.11ac VHT40 CH 38 5190MHz</b> |   | 5147.94           | 58.18            | -15.82        | 74                    | 47.53             | 34.1                    | 11.84            | 35.29                | 100            | 243               | P               | H          |
|                                     |   | 5149.76           | 47.54            | -6.46         | 54                    | 36.89             | 34.1                    | 11.84            | 35.29                | 100            | 243               | A               | H          |
|                                     | *   | 5190              | 100.99           | -             | -                     | 90.1              | 34.26                   | 11.89            | 35.26                | 100            | 243               | P               | H          |
|                                     | *   | 5190              | 93.44            | -             | -                     | 82.55             | 34.26                   | 11.89            | 35.26                | 100            | 243               | A               | H          |
|                                     |   | 5373.76           | 48.27            | -25.73        | 74                    | 36.86             | 34.65                   | 12               | 35.24                | 100            | 243               | P               | H          |
|                                     |   | 5447.12           | 39.14            | -14.86        | 54                    | 27.62             | 34.7                    | 12.06            | 35.24                | 100            | 243               | A               | H          |
|                                     |   | 5147.94           | 58.91            | -15.09        | 74                    | 48.26             | 34.1                    | 11.84            | 35.29                | 258            | 292               | P               | V          |
|                                     |   | 5149.76           | 49.47            | -4.53         | 54                    | 38.82             | 34.1                    | 11.84            | 35.29                | 258            | 292               | A               | V          |
|                                     | *   | 5190              | 101.79           | -             | -                     | 90.9              | 34.26                   | 11.89            | 35.26                | 258            | 292               | P               | V          |
|                                     | *   | 5190              | 93.06            | -             | -                     | 82.17             | 34.26                   | 11.89            | 35.26                | 258            | 292               | A               | V          |
|                                     |   | 5388.32           | 48.4             | -25.6         | 74                    | 36.96             | 34.68                   | 12               | 35.24                | 258            | 292               | P               | V          |
|                                     |   | 5431.44           | 39.23            | -14.77        | 54                    | 27.72             | 34.7                    | 12.05            | 35.24                | 258            | 292               | 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 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI Ant. 1+2                       | Note  | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|-------------------------------------|---|-------------------|------------------|---------------|-----------------------|-------------------|-------------------------|------------------|----------------------|----------------|-------------------|-----------------|------------|
| <b>802.11ac VHT80 CH 42 5210MHz</b> |   | 5147.16           | 60.26            | -13.74        | 74                    | 49.61             | 34.1                    | 11.84            | 35.29                | 100            | 246               | P               | H          |
|                                     |   | 5149.5            | 48.74            | -5.26         | 54                    | 38.09             | 34.1                    | 11.84            | 35.29                | 100            | 246               | A               | H          |
|                                     | *   | 5210              | 97.95            | -             | -                     | 86.95             | 34.34                   | 11.91            | 35.25                | 100            | 246               | P               | H          |
|                                     | *   | 5210              | 90.81            | -             | -                     | 79.81             | 34.34                   | 11.91            | 35.25                | 100            | 246               | A               | H          |
|                                     |   | 5383              | 48.18            | -25.82        | 74                    | 36.75             | 34.67                   | 12               | 35.24                | 100            | 246               | P               | H          |
|                                     |   | 5448.52           | 39.2             | -14.8         | 54                    | 27.67             | 34.7                    | 12.07            | 35.24                | 100            | 246               | A               | H          |
|                                     |   | 5149.76           | 62.12            | -11.88        | 74                    | 51.47             | 34.1                    | 11.84            | 35.29                | 243            | 291               | P               | V          |
|                                     |   | 5149.5            | 51.6             | -2.4          | 54                    | 40.95             | 34.1                    | 11.84            | 35.29                | 243            | 291               | A               | V          |
|                                     | *   | 5210              | 99.6             | -             | -                     | 88.6              | 34.34                   | 11.91            | 35.25                | 243            | 291               | P               | V          |
|                                     | *   | 5210              | 91.05            | -             | -                     | 80.05             | 34.34                   | 11.91            | 35.25                | 243            | 291               | A               | V          |
|                                     |   | 5363.12           | 48.8             | -25.2         | 74                    | 37.42             | 34.63                   | 11.99            | 35.24                | 243            | 291               | P               | V          |
|                                     | 5458.32   | 39.28             | -14.72           | 54            | 27.74                 | 34.7              | 12.08                   | 35.24            | 243                  | 291            | A                 | V               |            |
| <b>Remark</b>                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            |



**Band 2 - 5250~5350MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI Ant. 1+2                        | Note  | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|--------------------------------------|---|-------------------|------------------|---------------|-----------------------|-------------------|-------------------------|------------------|----------------------|----------------|-------------------|-----------------|------------|
| <b>802.11a<br/>CH 64<br/>5320MHz</b> | *   | 5320              | 102.56           | -             | -                     | 91.23             | 34.6                    | 11.97            | 35.24                | 100            | 270               | P               | H          |
|                                      | *   | 5320              | 96.29            | -             | -                     | 84.96             | 34.6                    | 11.97            | 35.24                | 100            | 270               | A               | H          |
|                                      |   | 5441.76           | 48.77            | -25.23        | 74                    | 37.25             | 34.7                    | 12.06            | 35.24                | 100            | 270               | P               | H          |
|                                      |   | 5350.24           | 39.59            | -14.41        | 54                    | 28.25             | 34.6                    | 11.98            | 35.24                | 100            | 270               | A               | H          |
|                                      |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                                      |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                                      | *   | 5320              | 104.28           | -             | -                     | 92.95             | 34.6                    | 11.97            | 35.24                | 343            | 5                 | P               | V          |
|                                      | *   | 5320              | 98.23            | -             | -                     | 86.9              | 34.6                    | 11.97            | 35.24                | 343            | 5                 | A               | V          |
|                                      |   | 5428.16           | 49.28            | -24.72        | 74                    | 37.78             | 34.7                    | 12.04            | 35.24                | 343            | 5                 | P               | V          |
|                                      |   | 5350.08           | 40.02            | -13.98        | 54                    | 28.68             | 34.6                    | 11.98            | 35.24                | 343            | 5                 | A               | V          |
|                                      |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
|                                      |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            |



**Band 2 5250~5350MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI Ant. 1+2                | Note  | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |   |
|------------------------------|---|-------------------|------------------|---------------|-----------------------|-------------------|-------------------------|------------------|----------------------|----------------|-------------------|-----------------|------------|---|
| i802.11a<br>CH 60<br>5300MHz |   | 10600             | 45.29            | -28.71        | 74                    | 47.77             | 37.5                    | 18.61            | 58.59                | -              | -                 | P               | H          |   |
|                              |   | 15900             | 53.99            | -20.01        | 74                    | 46.41             | 40.9                    | 22.83            | 56.15                | 201            | 127               | P               | H          |   |
|                              |   | 15900             | 42.99            | -11.01        | 54                    | 35.41             | 40.9                    | 22.83            | 56.15                | 201            | 127               | A               | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   | 10600            | 46.12         | -27.88                | 74                | 48.6                    | 37.5             | 18.61                | 58.59          | -                 | -               | P          | V |
|                              |   |                   | 15900            | 55.12         | -18.88                | 74                | 47.54                   | 40.9             | 22.83                | 56.15          | 208               | 187             | P          | V |
|                              |   |                   | 15900            | 42.67         | -11.33                | 54                | 35.09                   | 40.9             | 22.83                | 56.15          | 208               | 187             | A          | V |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | V |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
| <b>Remark</b>                | <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol> |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            |   |



**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI Ant. 1+2                | Note  | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|------------------------------|---|-------------------|------------------|---------------|-----------------------|-------------------|-------------------------|------------------|----------------------|----------------|-------------------|-----------------|------------|
| 802.11ac VHT20 CH 64 5320MHz | *   | 5320              | 100.78           | -             | -                     | 89.45             | 34.6                    | 11.97            | 35.24                | 100            | 270               | P               | H          |
|                              | *   | 5320              | 95.22            | -             | -                     | 83.89             | 34.6                    | 11.97            | 35.24                | 100            | 270               | A               | H          |
|                              |   | 5352.8            | 48.47            | -25.53        | 74                    | 37.12             | 34.61                   | 11.98            | 35.24                | 100            | 270               | P               | H          |
|                              |   | 5350.08           | 39.9             | -14.1         | 54                    | 28.56             | 34.6                    | 11.98            | 35.24                | 100            | 270               | A               | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              | *   | 5320              | 104.21           | -             | -                     | 92.88             | 34.6                    | 11.97            | 35.24                | 381            | 9                 | P               | V          |
|                              | *   | 5320              | 96.91            | -             | -                     | 85.58             | 34.6                    | 11.97            | 35.24                | 381            | 9                 | A               | V          |
|                              |   | 5452              | 48.87            | -25.13        | 74                    | 37.34             | 34.7                    | 12.07            | 35.24                | 381            | 9                 | P               | V          |
|                              |   | 5350.08           | 40.94            | -13.06        | 54                    | 29.6              | 34.6                    | 11.98            | 35.24                | 381            | 9                 | A               | V          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   | V               |            |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   | V               |            |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            |



**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT20 (Harmonic @ 3m)**

| WIFI Ant. 1+2                         | Note  | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |   |
|---------------------------------------|---|-------------------|------------------|---------------|-----------------------|-------------------|-------------------------|------------------|----------------------|----------------|-------------------|-----------------|------------|---|
| 802.11ac<br>VHT20<br>CH 60<br>5300MHz |   | 10600             | 45.12            | -28.88        | 74                    | 47.6              | 37.5                    | 18.61            | 58.59                | -              | -                 | P               | H          |   |
|                                       |   | 15900             | 54.8             | -19.2         | 74                    | 47.22             | 40.9                    | 22.83            | 56.15                | 202            | 129               | P               | H          |   |
|                                       |   | 15900             | 42.08            | -11.92        | 54                    | 34.5              | 40.9                    | 22.83            | 56.15                | 202            | 129               | A               | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                                       |   |                   | 10600            | 45.46         | -28.54                | 74                | 47.94                   | 37.5             | 18.61                | 58.59          | -                 | -               | P          | V |
|                                       |   |                   | 15900            | 55.12         | -18.88                | 74                | 47.54                   | 40.9             | 22.83                | 56.15          | 213               | 209             | P          | V |
|                                       |   |                   | 15900            | 43.15         | -10.85                | 54                | 35.57                   | 40.9             | 22.83                | 56.15          | 213               | 209             | A          | V |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | V |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | V |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | V |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | V |
|                                       |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
| <b>Remark</b>                         | <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol> |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            |   |



Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Margin (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ac VHT40 CH 62 5310MHz and a Remark section.



Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Margin (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ac VHT80 CH 58 5290MHz and a Remark section.



**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI Ant. 1+2                | Note  | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |   |
|------------------------------|---|-------------------|------------------|---------------|-----------------------|-------------------|-------------------------|------------------|----------------------|----------------|-------------------|-----------------|------------|---|
| 802.11a<br>CH 100<br>5500MHz |   | 5408.4            | 48.78            | -25.22        | 74                    | 37.3              | 34.7                    | 12.02            | 35.24                | 371            | 207               | P               | H          |   |
|                              |   | 5470              | 48.21            | -19.99        | 68.2                  | 36.66             | 34.7                    | 12.09            | 35.24                | 371            | 207               | P               | H          |   |
|                              |   | 5459.28           | 39.25            | -14.75        | 54                    | 27.71             | 34.7                    | 12.08            | 35.24                | 371            | 207               | A               | H          |   |
|                              | *   | 5500              | 101.3            | -             | -                     | 89.72             | 34.7                    | 12.12            | 35.24                | 371            | 207               | P               | H          |   |
|                              | *   | 5500              | 95.08            | -             | -                     | 83.5              | 34.7                    | 12.12            | 35.24                | 371            | 207               | A               | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | H |
|                              |   |                   | 5363.44          | 49.2          | -24.8                 | 74                | 37.82                   | 34.63            | 11.99                | 35.24          | 305               | 2               | P          | V |
|                              |   |                   | 5469.36          | 51.36         | -16.84                | 68.2              | 39.81                   | 34.7             | 12.09                | 35.24          | 305               | 2               | P          | V |
|                              |   |                   | 5459.92          | 39.85         | -14.15                | 54                | 28.31                   | 34.7             | 12.08                | 35.24          | 305               | 2               | A          | V |
|                              | *   |                   | 5500             | 106.02        | -                     | -                 | 94.44                   | 34.7             | 12.12                | 35.24          | 305               | 2               | P          | V |
|                              | *   |                   | 5500             | 98.21         | -                     | -                 | 86.63                   | 34.7             | 12.12                | 35.24          | 305               | 2               | A          | V |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | V |
| 802.11a<br>CH 140<br>5700MHz | *   | 5700              | 99.88            | -             | -                     | 87.88             | 34.9                    | 12.28            | 35.18                | 100            | 102               | P               | H          |   |
|                              | *   | 5700              | 93.05            | -             | -                     | 81.05             | 34.9                    | 12.28            | 35.18                | 100            | 102               | A               | H          |   |
|                              |   |                   | 5725.4           | 51.48         | -16.72                | 68.2              | 39.3                    | 12.3             | 35.17                | 100            | 102               | P               | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |   |
|                              | *   |                   | 5700             | 103.1         | -                     | -                 | 91.1                    | 34.9             | 12.28                | 35.18          | 268               | 0               | P          | V |
|                              | *   |                   | 5700             | 95.72         | -                     | -                 | 83.72                   | 34.9             | 12.28                | 35.18          | 268               | 0               | A          | V |
|                              |   |                   | 5726.2           | 53.82         | -14.38                | 68.2              | 41.63                   | 35.06            | 12.3                 | 35.17          | 268               | 0               | P          | V |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | V |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
| <b>Remark</b>                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            |   |





**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI Ant. 1+2                | Note  | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|------------------------------|---|-------------------|------------------|---------------|-----------------------|-------------------|-------------------------|------------------|----------------------|----------------|-------------------|-----------------|------------|
| 802.11a<br>CH 116<br>5580MHz |   | 11160             | 45.13            | -28.87        | 74                    | 46.06             | 37.86                   | 19.04            | 57.83                | -              | -                 | P               | H          |
|                              |   | 16740             | 49.69            | -18.51        | 68.2                  | 40.25             | 42.14                   | 23.49            | 56.19                | -              | -                 | P               | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | H          |
|                              |   |                   | 11160            | 51.88         | -22.12                | 74                | 52.81                   | 37.86            | 19.04                | 57.83          | 288               | 205             | P          |
|                              |   | 11160             | 39.68            | -14.32        | 54                    | 40.61             | 37.86                   | 19.04            | 57.83                | 288            | 205               | A               | V          |
|                              |   | 16740             | 50.21            | -17.99        | 68.2                  | 40.77             | 42.14                   | 23.49            | 56.19                | -              | -                 | P               | V          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
|                              |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |
| <b>Remark</b>                | <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol> |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI Ant. 1+2                 | Note  | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |   |
|-------------------------------|---|-------------------|------------------|---------------|-----------------------|-------------------|-------------------------|------------------|----------------------|----------------|-------------------|-----------------|------------|---|
| 802.11ac VHT20 CH 100 5500MHz |   | 5400.88           | 48.64            | -25.36        | 74                    | 37.17             | 34.7                    | 12.01            | 35.24                | 369            | 208               | P               | H          |   |
|                               |   | 5468.88           | 48.66            | -19.54        | 68.2                  | 37.11             | 34.7                    | 12.09            | 35.24                | 369            | 208               | P               | H          |   |
|                               |   | 5459.76           | 39.29            | -14.71        | 54                    | 27.75             | 34.7                    | 12.08            | 35.24                | 369            | 208               | A               | H          |   |
|                               | *   | 5500              | 100.41           | -             | -                     | 88.83             | 34.7                    | 12.12            | 35.24                | 369            | 208               | P               | H          |   |
|                               | *   | 5500              | 93.92            | -             | -                     | 82.34             | 34.7                    | 12.12            | 35.24                | 369            | 208               | A               | H          |   |
|                               |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | H |
|                               |   |                   | 5417.68          | 48.59         | -25.41                | 74                | 37.1                    | 34.7             | 12.03                | 35.24          | 302               | 0               | P          | V |
|                               |   |                   | 5469.84          | 50.46         | -17.74                | 68.2              | 38.91                   | 34.7             | 12.09                | 35.24          | 302               | 0               | P          | V |
|                               |   |                   | 5459.76          | 39.84         | -14.16                | 54                | 28.3                    | 34.7             | 12.08                | 35.24          | 302               | 0               | A          | V |
|                               | *   |                   | 5500             | 105.91        | -                     | -                 | 94.33                   | 34.7             | 12.12                | 35.24          | 302               | 0               | P          | V |
|                               | *   |                   | 5500             | 98.42         | -                     | -                 | 86.84                   | 34.7             | 12.12                | 35.24          | 302               | 0               | A          | V |
|                               |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
| 802.11ac VHT20 CH 140 5700MHz | *   | 5700              | 99.06            | -             | -                     | 87.06             | 34.9                    | 12.28            | 35.18                | 100            | 86                | P               | H          |   |
|                               | *   | 5700              | 91.73            | -             | -                     | 79.73             | 34.9                    | 12.28            | 35.18                | 100            | 86                | A               | H          |   |
|                               |   |                   | 5734.12          | 50.87         | -17.33                | 68.2              | 38.64                   | 35.1             | 12.3                 | 35.17          | 100               | 86              | P          | H |
|                               |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | H |
|                               |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | H |
|                               |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | H |
|                               | *   |                   | 5700             | 103.45        | -                     | -                 | 91.45                   | 34.9             | 12.28                | 35.18          | 269               | 5               | P          | V |
|                               | *   |                   | 5700             | 95.32         | -                     | -                 | 83.32                   | 34.9             | 12.28                | 35.18          | 269               | 5               | A          | V |
|                               |   |                   | 5725.08          | 55.05         | -13.15                | 68.2              | 42.87                   | 35.05            | 12.3                 | 35.17          | 269               | 5               | P          | V |
|                               |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            | V |
|                               |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
|                               |   |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 | V          |   |
| <b>Remark</b>                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            |   |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11ac VHT20 (Harmonic @ 3m)**

| WIFI Ant. 1+2                          | Note   | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. ( P/A ) | Pol. ( H/V ) |   |
|--|--|-------------------|------------------|---------------|-----------------------|---------------------|-------------------------|------------------|----------------------|----------------|-------------------|-------------------|--------------|---|
| 802.11ac<br>VHT20<br>CH 116<br>5580MHz |  | 11160             | 46.81            | -27.19        | 74                    | 47.74               | 37.86                   | 19.04            | 57.83                | -              | -                 | P                 | H            |   |
|  |  | 16740             | 49.42            | -18.78        | 68.2                  | 39.98               | 42.14                   | 23.49            | 56.19                | -              | -                 | P                 | H            |   |
|  |  |                   |                  |               |                       |                     |                         |                  |                      |                |                   |                   | H            |   |
|  |  |                   |                  |               |                       |                     |                         |                  |                      |                |                   |                   | H            |   |
|  |  |                   |                  |               |                       |                     |                         |                  |                      |                |                   |                   | H            |   |
|  |  |                   |                  |               |                       |                     |                         |                  |                      |                |                   |                   | H            |   |
|  |  |                   |                  |               |                       |                     |                         |                  |                      |                |                   |                   | H            |   |
|  |  |                   |                  |               |                       |                     |                         |                  |                      |                |                   |                   | H            |   |
|  |  |                   |                  |               |                       |                     |                         |                  |                      |                |                   |                   | H            |   |
|  |  |                   |                  |               |                       |                     |                         |                  |                      |                |                   |                   | H            |   |
|  |  |                   |                  |               |                       |                     |                         |                  |                      |                |                   |                   | H            |   |
|  |  |                   |                  |               |                       |                     |                         |                  |                      |                |                   |                   | H            |   |
|  |  |                   | 11160            | 51.16         | -22.84                | 74                  | 52.09                   | 37.86            | 19.04                | 57.83          | -                 | -                 | P            | V |
|  |  |                   | 11160            | 40.22         | -13.78                | 54                  | 41.15                   | 37.86            | 19.04                | 57.83          | 239               | 205               | A            | V |
|  |  |                   | 16740            | 50.72         | -17.48                | 68.2                | 41.28                   | 42.14            | 23.49                | 56.19          | -                 | -                 | P            | V |
|  |  |                   |                  |               |                       |                     |                         |                  |                      |                |                   |                   |              | 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 3 - 5470~5725MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI Ant. 1+2                 | Note  | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. ( P/A ) | Pol. ( H/V ) |
|-------------------------------|---|-------------------|------------------|---------------|-----------------------|---------------------|-------------------------|------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11ac VHT40 CH 102 5510MHz |   | 5458.48           | 48.48            | -25.52        | 74                    | 36.94               | 34.7                    | 12.08            | 35.24                | 369            | 207               | P                 | H            |
|                               |   | 5469.76           | 52.7             | -15.5         | 68.2                  | 41.15               | 34.7                    | 12.09            | 35.24                | 369            | 207               | P                 | H            |
|                               |   | 5459.92           | 39.88            | -14.12        | 54                    | 28.34               | 34.7                    | 12.08            | 35.24                | 369            | 207               | A                 | H            |
|                               | *   | 5510              | 98.01            | -             | -                     | 86.4                | 34.7                    | 12.14            | 35.23                | 369            | 207               | P                 | H            |
|                               | *   | 5510              | 91.19            | -             | -                     | 79.58               | 34.7                    | 12.14            | 35.23                | 369            | 207               | A                 | H            |
|                               |   | 5762.165          | 49.02            | -19.18        | 68.2                  | 36.67               | 35.2                    | 12.31            | 35.16                | 369            | 207               | P                 | H            |
|                               |   | 5457.76           | 50.28            | -23.72        | 74                    | 38.74               | 34.7                    | 12.08            | 35.24                | 338            | 0                 | P                 | V            |
|                               |   | 5465.2            | 56.78            | -11.42        | 68.2                  | 45.24               | 34.7                    | 12.08            | 35.24                | 338            | 0                 | P                 | V            |
|                               |   | 5459.92           | 40.95            | -13.05        | 54                    | 29.41               | 34.7                    | 12.08            | 35.24                | 338            | 0                 | A                 | V            |
|                               | *   | 5510              | 102.3            | -             | -                     | 90.69               | 34.7                    | 12.14            | 35.23                | 338            | 0                 | P                 | V            |
|                               | *   | 5510              | 95.65            | -             | -                     | 84.04               | 34.7                    | 12.14            | 35.23                | 338            | 0                 | A                 | V            |
|                               |   | 5725.31           | 50.31            | -17.89        | 68.2                  | 38.13               | 35.05                   | 12.3             | 35.17                | 338            | 0                 | P                 | V            |
| 802.11ac VHT40 CH 134 5670MHz |   | 5430.15           | 48.07            | -25.93        | 74                    | 36.57               | 34.7                    | 12.04            | 35.24                | 100            | 88                | P                 | H            |
|                               |   | 5462              | 46.26            | -21.94        | 68.2                  | 34.72               | 34.7                    | 12.08            | 35.24                | 100            | 88                | P                 | H            |
|                               |   | 5459.9            | 39.09            | -14.91        | 54                    | 27.55               | 34.7                    | 12.08            | 35.24                | 100            | 88                | A                 | H            |
|                               | *   | 5670              | 95.25            | -             | -                     | 83.4                | 34.78                   | 12.27            | 35.2                 | 100            | 88                | P                 | H            |
|                               | *   | 5670              | 89.23            | -             | -                     | 77.38               | 34.78                   | 12.27            | 35.2                 | 100            | 88                | A                 | H            |
|                               |   | 5753.8            | 49.09            | -19.11        | 68.2                  | 36.74               | 35.2                    | 12.31            | 35.16                | 100            | 88                | P                 | H            |
|                               |   | 5450.8            | 48.07            | -25.93        | 74                    | 36.54               | 34.7                    | 12.07            | 35.24                | 300            | 2                 | P                 | V            |
|                               |   | 5464.1            | 47.33            | -20.87        | 68.2                  | 35.79               | 34.7                    | 12.08            | 35.24                | 300            | 2                 | P                 | V            |
|                               |   | 5458.15           | 39.27            | -14.73        | 54                    | 27.73               | 34.7                    | 12.08            | 35.24                | 300            | 2                 | A                 | V            |
|                               | *   | 5670              | 100.77           | -             | -                     | 88.92               | 34.78                   | 12.27            | 35.2                 | 300            | 2                 | P                 | V            |
|                               | *   | 5670              | 93.4             | -             | -                     | 81.55               | 34.78                   | 12.27            | 35.2                 | 300            | 2                 | A                 | V            |
|                               |   | 5727.375          | 52.13            | -16.07        | 68.2                  | 39.94               | 35.06                   | 12.3             | 35.17                | 300            | 2                 | P                 | V            |
| Remark                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                   |                  |               |                       |                     |                         |                  |                      |                |                   |                   |              |



**Band 3 5470~5725MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI Ant. 1+2                 | Note  | Frequency ( MHz ) | Level ( dBμV/m ) | Margin ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|-------------------------------|---|-------------------|------------------|---------------|-----------------------|-------------------|-------------------------|------------------|----------------------|----------------|-------------------|-----------------|------------|
| 802.11ac VHT80 CH 106 5530MHz |   | 5453.2            | 49.17            | -24.83        | 74                    | 37.64             | 34.7                    | 12.07            | 35.24                | 368            | 208               | P               | H          |
|                               |   | 5469.28           | 48.76            | -19.44        | 68.2                  | 37.21             | 34.7                    | 12.09            | 35.24                | 368            | 208               | P               | H          |
|                               |   | 5459.68           | 40.21            | -13.79        | 54                    | 28.67             | 34.7                    | 12.08            | 35.24                | 368            | 208               | A               | H          |
|                               | *   | 5530              | 92.98            | -             | -                     | 81.35             | 34.7                    | 12.16            | 35.23                | 368            | 208               | P               | H          |
|                               | *   | 5530              | 86.43            | -             | -                     | 74.8              | 34.7                    | 12.16            | 35.23                | 368            | 208               | A               | H          |
|                               |   | 5729.09           | 49.79            | -18.41        | 68.2                  | 37.59             | 35.07                   | 12.3             | 35.17                | 368            | 208               | P               | H          |
|                               |   | 5445.28           | 49.52            | -24.48        | 74                    | 38                | 34.7                    | 12.06            | 35.24                | 304            | 0                 | P               | V          |
|                               |   | 5468.56           | 54.81            | -13.39        | 68.2                  | 43.26             | 34.7                    | 12.09            | 35.24                | 304            | 0                 | P               | V          |
|                               |   | 5459.92           | 41.7             | -12.3         | 54                    | 30.16             | 34.7                    | 12.08            | 35.24                | 304            | 0                 | A               | V          |
|                               | *   | 5530              | 96.9             | -             | -                     | 85.27             | 34.7                    | 12.16            | 35.23                | 304            | 0                 | P               | V          |
|                               | *   | 5530              | 90.4             | -             | -                     | 78.77             | 34.7                    | 12.16            | 35.23                | 304            | 0                 | A               | V          |
|                               |   | 5756.81           | 50.43            | -17.77        | 68.2                  | 38.08             | 35.2                    | 12.31            | 35.16                | 304            | 0                 | P               | V          |
| Remark                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                   |                  |               |                       |                   |                         |                  |                      |                |                   |                 |            |



Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (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.    |         |   |
| 1+2                             |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |   |
| 5GHz<br>802.11ac<br>VHT80<br>LF |   | 30        | 21.18      | -18.82 | 40         | 25.74    | 24.51    | 1.01   | 30.08  | -      | -       | P       | H       |   |
|                                 |   | 138       | 26.36      | -17.14 | 43.5       | 37.01    | 17.29    | 2.02   | 29.96  | -      | -       | P       | H       |   |
|                                 |   | 290.28    | 31.52      | -14.48 | 46         | 39.46    | 19.08    | 2.92   | 29.94  | -      | -       | P       | H       |   |
|                                 |   | 317.5     | 34         | -12    | 46         | 41.42    | 19.4     | 3.1    | 29.92  | -      | -       | P       | H       |   |
|                                 |   | 834.8     | 37.56      | -8.44  | 46         | 33.63    | 28.21    | 5.1    | 29.38  | -      | -       | P       | H       |   |
|                                 |   | 944       | 33.77      | -12.23 | 46         | 27.18    | 29.9     | 5.54   | 28.85  | -      | -       | P       | H       |   |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |   |           | 30         | 30.58  | -9.42      | 40       | 35.14    | 24.51  | 1.01   | 30.08  | -       | -       | P       | V |
|                                 |   |           | 136.92     | 27.87  | -15.63     | 43.5     | 38.44    | 17.38  | 2.01   | 29.96  | -       | -       | P       | V |
|                                 |   |           | 288.12     | 29.83  | -16.17     | 46       | 37.84    | 19.02  | 2.91   | 29.94  | -       | -       | P       | V |
|                                 |   |           | 630.4      | 32.46  | -13.54     | 46       | 32.13    | 25.97  | 4.31   | 29.95  | -       | -       | P       | V |
|                                 |   |           | 806.1      | 34.35  | -11.65     | 46       | 31.18    | 27.67  | 5.04   | 29.54  | -       | -       | P       | V |
|                                 |   | 955.2     | 34.15      | -11.85 | 46         | 26.78    | 30.6     | 5.57   | 28.8   | -      | -       | P       | V       |   |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         | V       |   |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         | V       |   |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         | V       |   |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         | V       |   |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         | V       |   |
|                                 |   |           |            |        |            |          |          |        |        |        |         |         | V       |   |
| <b>Remark</b>                   | <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against limit line.</li> <li>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.</li> </ol> |           |            |        |            |          |          |        |        |        |         |         |         |   |



**Note symbol**

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



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

| WIFI    | Note | Frequency | Level      | Margin | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            |        | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2     |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a |      | 5150      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 36   |      | 5150      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |
| 5180MHz |      |           |            |        |            |          |          |        |        |        |         |         |         |

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. Marrgin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 5150MHz:**

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. Marrgin (dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 55.45(dBμV/m) – 74(dBμV/m)  
= -18.55(dB)

**For Average Limit @ 5150MHz:**

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. Marrgin (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 : | Jesse Wang, Stan Hsieh, Ken Wu and Howard | Temperature :       | 22.6~24.5°C |
|                 | Huang                                     | Relative Humidity : | 58.6~61.3%  |

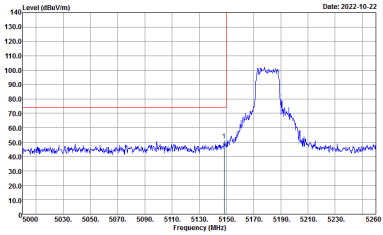
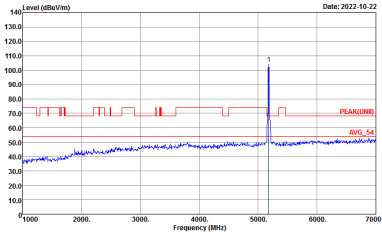
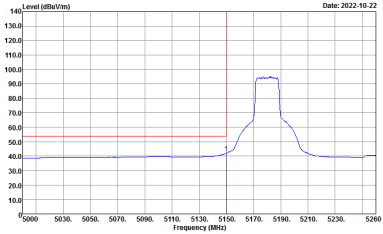
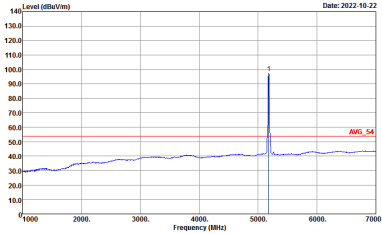
Remark: For Radiated Spurious Emission Plots Test Items, Ant. 1 means Chain 1 and Ant. 2 means Chain 0.

### Note symbol

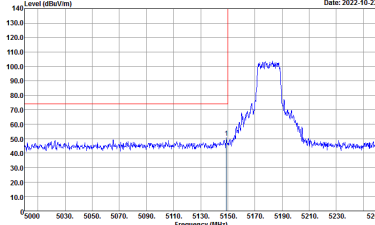
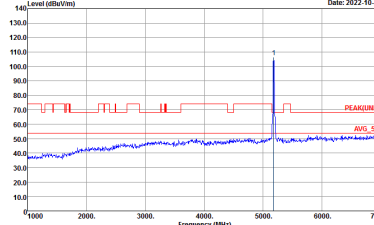
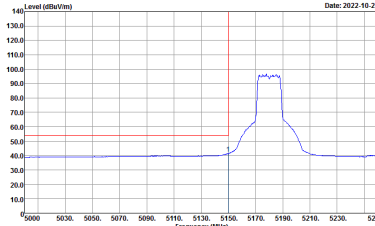
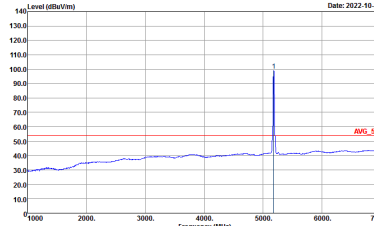
|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |



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

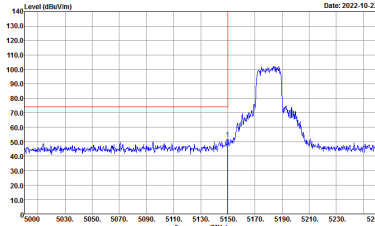
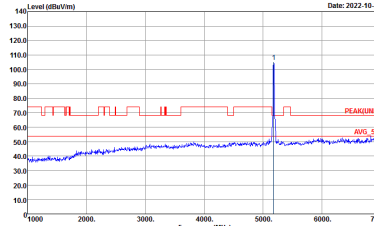
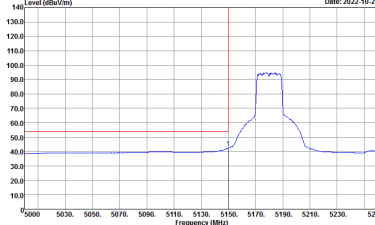
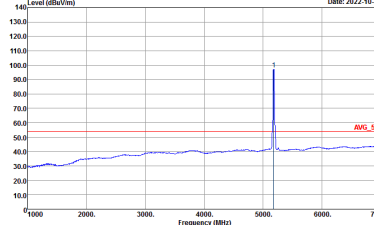
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | 802.11a CH36 5180MHz  |  |
| 1+2  | Horizontal  | Fundamental  |
| Peak |  <p>Site : 03CH07-HY<br/>           Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz; VBW:3000.000kHz; SWT:Auto</p> |  <p>Site : 03CH07-HY<br/>           Condition : PEAK(LIN)1 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz; VBW:3000.000kHz; SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>           Condition : AVG_BE_S4 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz; VBW:0.010kHz; SWT:Auto</p>   |  <p>Site : 03CH07-HY<br/>           Condition : AVG_S4 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz; VBW:0.010kHz; SWT:Auto</p>      |



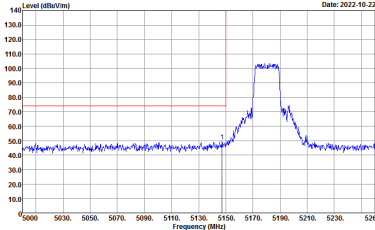
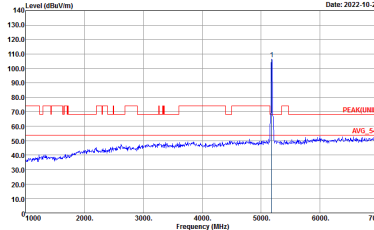
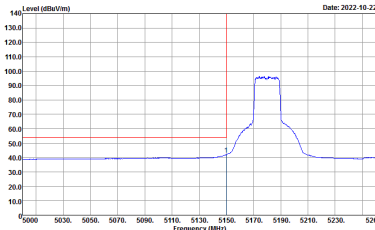
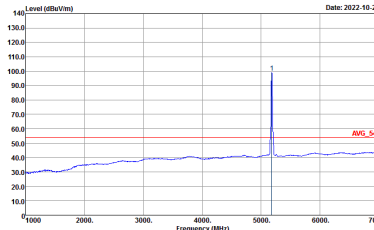
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m  |   |
|------|---|---|
| ANT  | 802.11a CH36 5180MHz  |   |
| 1+2  | Vertical  | Fundamental   |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK(LIN) 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_34 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_34 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>     |



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

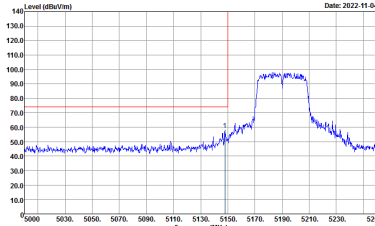
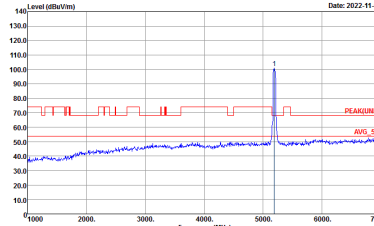
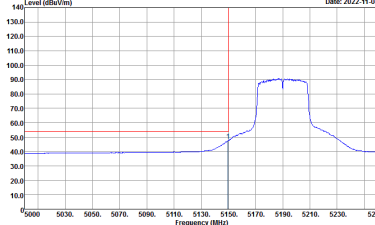
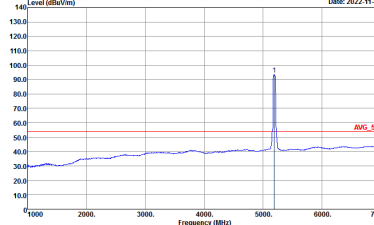
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m   |  |
|------|--|--|
| ANT  | 802.11ac VHT20 CH36 5180MHz  |  |
| 1+2  | Horizontal   | Fundamental  |
| Peak |  <p>Date: 2022-10-22</p> <p>Site Condition : 03CH07-HY<br/>: PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> |  <p>Date: 2022-10-22</p> <p>Site Condition : 03CH07-HY<br/>: PEAK(LIN) 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> |
|      |  <p>Date: 2022-10-22</p> <p>Site Condition : 03CH07-HY<br/>: AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>   |  <p>Date: 2022-10-22</p> <p>Site Condition : 03CH07-HY<br/>: AVG_54 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>     |
| Avg. |  |  |



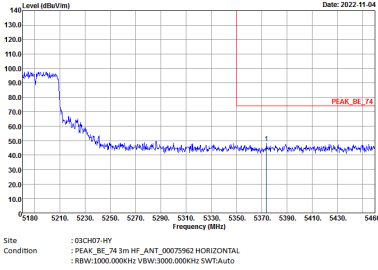
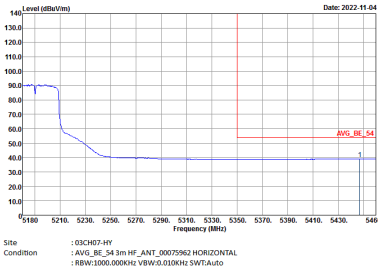
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m  |   |
|------|---|---|
| ANT  | 802.11ac VHT20 CH36 5180MHz   |   |
| 1+2  | Vertical  | Fundamental   |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK(LIN) 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_34 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_34 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>     |



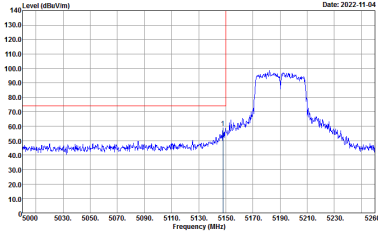
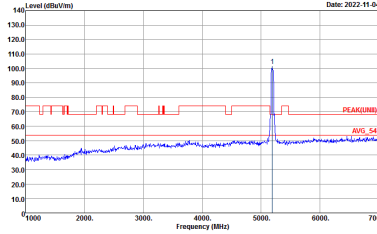
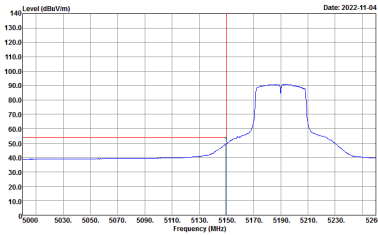
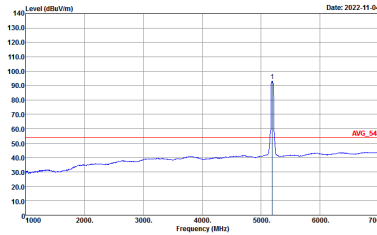
**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m   |  |
|------|--|--|
| ANT  | 802.11ac VHT40 CH38 5190MHz - L  |  |
| 1+2  | Horizontal   | Fundamental  |
| Peak |  <p>Date: 2022-11-04</p> <p>Site Condition : 03CH07-HY<br/>           : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> |  <p>Date: 2022-11-04</p> <p>Site Condition : 03CH07-HY<br/>           : PEAK(LIN) 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> |
|      |  <p>Date: 2022-11-04</p> <p>Site Condition : 03CH07-HY<br/>           : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>   |  <p>Date: 2022-11-04</p> <p>Site Condition : 03CH07-HY<br/>           : AVG_54 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>     |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m   |             |
|------|--|-------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - R  |             |
| 1+2  | Horizontal   | Fundamental |
| Peak |  <p>Site : 03CH07-RY<br/>Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> | Left blank  |
| Avg. |  <p>Site : 03CH07-RY<br/>Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>   | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | 802.11ac VHT40 CH38 5190MHz - L   |  |
| 1+2  | Vertical  | Fundamental  |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK(LIN)I 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_34 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_34 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>      |

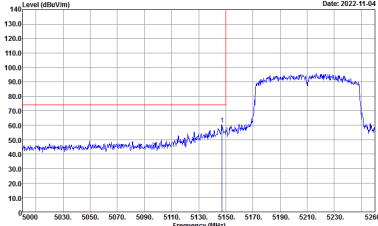
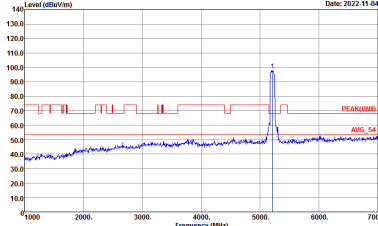
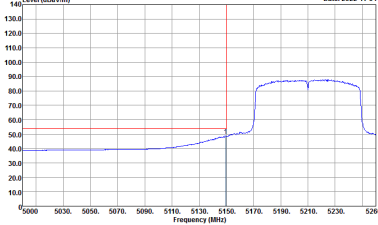
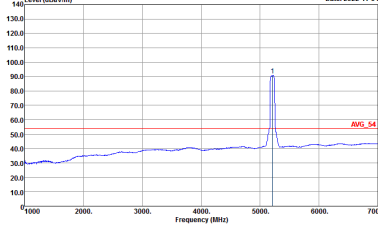




| WIFI | Band 1 5150~5250MHz Band Edge @ 3m   |             |
|------|--|-------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - R  |             |
| 1+2  | Vertical   | Fundamental |
| Peak | <p>Site : 03CH07-RY<br/>Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> | Left blank  |
| Avg. | <p>Site : 03CH07-RY<br/>Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>     | Left blank  |



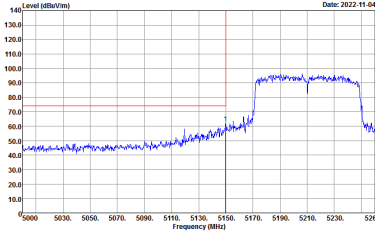
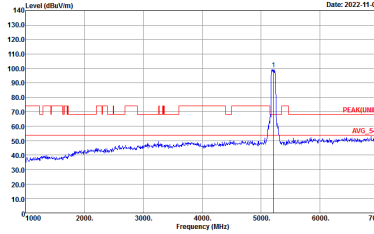
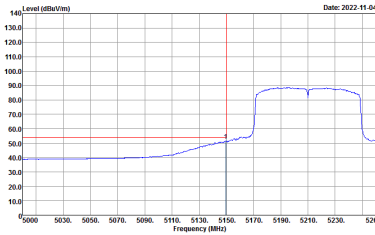
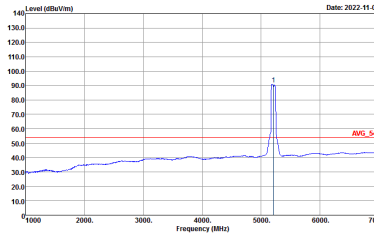
**Band 1 5150~5250MHz  
WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m   |  |
|------|--|--|
| ANT  | 802.11ac VHT80 CH42 5210MHz - L  |  |
| 1+2  | Horizontal   | Fundamental  |
| Peak |  <p>Site Condition : 03CH07-HY<br/>: PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTAuto</p> |  <p>Site Condition : 03CH07-HY<br/>: PEAK(LIN) 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTAuto</p> |
|      |  <p>Site Condition : 03CH07-HY<br/>: AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTAuto</p>   |  <p>Site Condition : 03CH07-HY<br/>: AVG_54 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTAuto</p>     |
| Avg. |  |  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m   |             |
|------|--|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R  |             |
| 1+2  | Horizontal   | Fundamental |
| Peak | <p>Site : 03CH07-RY<br/>Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> | Left blank  |
| Avg. | <p>Site : 03CH07-RY<br/>Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>     | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m   |   |
|------|--|---|
| ANT  | 802.11ac VHT80 CH42 5210MHz - L  |   |
| 1+2  | Vertical   | Fundamental   |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTAuto</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK(LIN)1 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTAuto</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_34 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTAuto</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_34 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTAuto</p>      |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m   |             |
|------|--|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R  |             |
| 1+2  | Vertical   | Fundamental |
| Peak | <p>Site : 03CH07-RV<br/>Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> | Left blank  |
| Avg. | <p>Site : 03CH07-RV<br/>Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>     | Left blank  |



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

|                      |  |  |
|----------------------|--|--|
| <b>WIFI</b>          | <b>Band 1 5150~5250MHz Harmonic @ 3m</b>   |  |
| <b>ANT</b>           | <b>802.11a CH40 5200MHz</b>  |  |
| <b>1+2</b>           | <b>Horizontal</b>  | <b>Vertical</b>  |
| <b>Peak<br/>Avg.</b> | <p>Site : 03C1027-4H<br/>         Condition : :PEAK(UWB) 3m HE_ANT_00075962 HORIZONTAL</p> | <p>Site : 03C1027-4H<br/>         Condition : :PEAK(UWB) 3m HE_ANT_00075962 VERTICAL</p> |

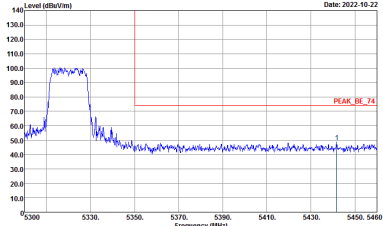
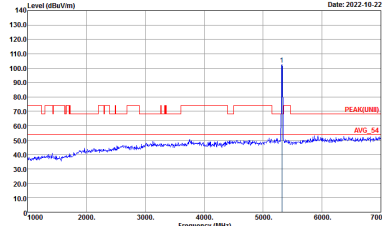
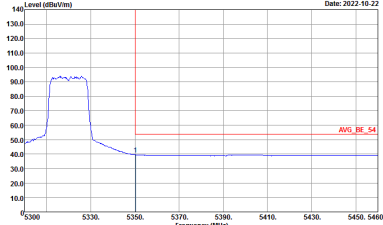
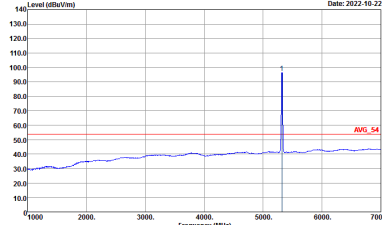


**Band 1 5150~5250MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)**

|                      |   |   |
|----------------------|---|---|
| <b>WIFI</b>          | <b>Band 1 5150~5250MHz Harmonic @ 3m</b>  |   |
| <b>ANT</b>           | <b>802.11ac VHT20 CH40 5200MHz</b>  |   |
| <b>1+2</b>           | <b>Horizontal</b>   | <b>Vertical</b>   |
| <b>Peak<br/>Avg.</b> | <p>Site : 03CH07-HY<br/>Condition : PEAK(LINII) 3m HF_ANT_00075962 HORIZONTAL</p> | <p>Site : 03CH07-HY<br/>Condition : PEAK(LINII) 3m HF_ANT_00075962 VERTICAL</p> |

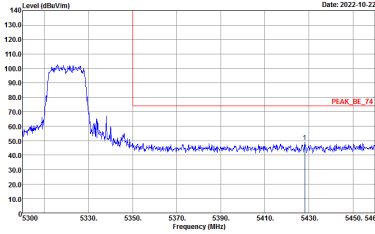
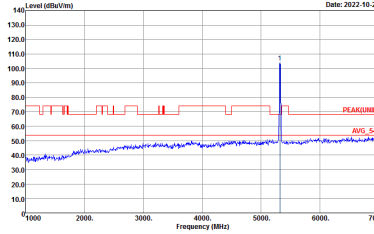
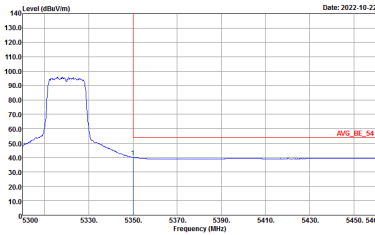
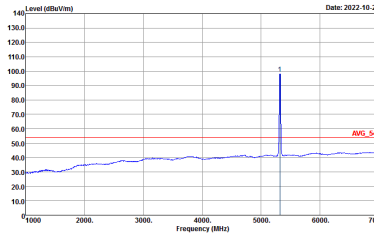


**Band 2 - 5250~5350MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | 802.11a CH64 5320MHz  |  |
| 1+2  | Horizontal  | Fundamental  |
| Peak |  <p>Site Condition : 03CH07-HY<br/>: PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site Condition : 03CH07-HY<br/>: PEAKFUNB 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site Condition : 03CH07-HY<br/>: AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>   |  <p>Site Condition : 03CH07-HY<br/>: AVG_54 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>    |

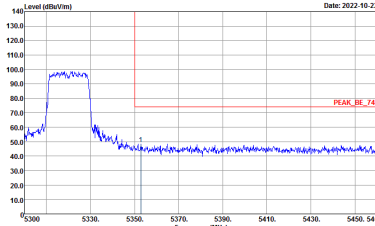
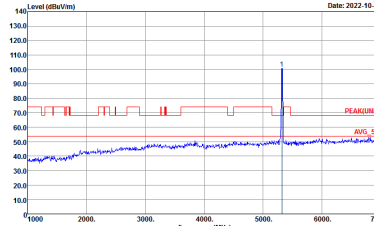
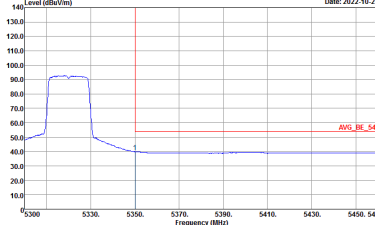
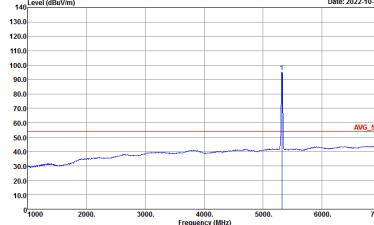




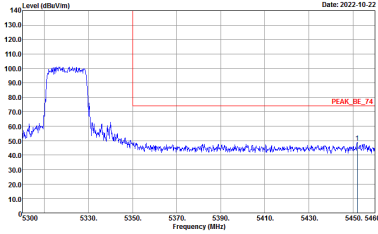
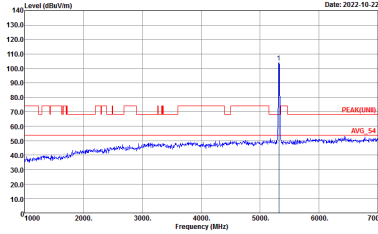
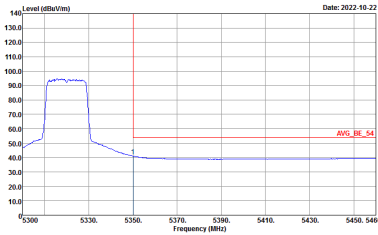
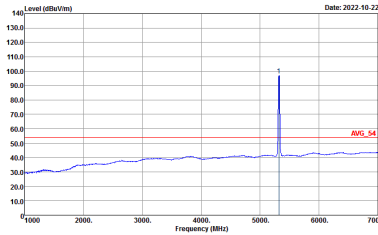
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m  |   |
|------|---|---|
| ANT  | 802.11a CH64 5320MHz  |   |
| 1+2  | Vertical  | Fundamental   |
| Peak |  <p>Site Condition : 03CH07-HY<br/>: PEAK_BE_74 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site Condition : 03CH07-HY<br/>: PEAK(LIN) 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site Condition : 03CH07-HY<br/>: AVG_BE_54 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>   |  <p>Site Condition : 03CH07-HY<br/>: AVG_54 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>     |



**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

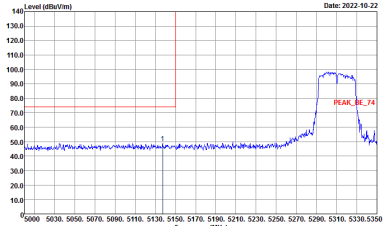
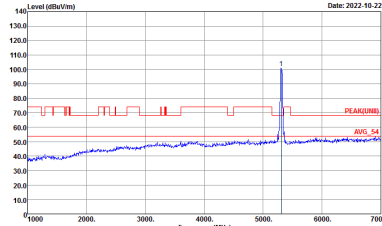
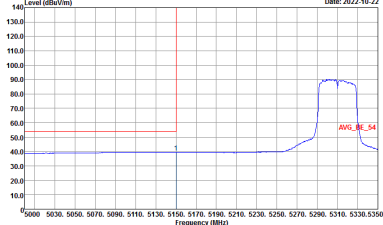
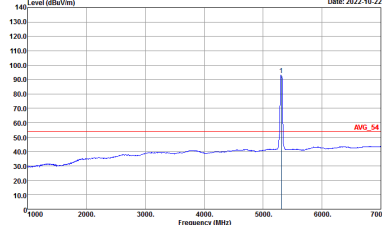
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m   |  |
|------|--|--|
| ANT  | 802.11ac VHT20 CH64 5320MHz  |  |
| 1+2  | Horizontal   | Fundamental  |
| Peak |  <p>Date: 2022-10-22</p> <p>Site Condition : 03CH07-HY<br/>           : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:3000.000kHz SWTAuto</p> |  <p>Date: 2022-10-22</p> <p>Site Condition : 03CH07-HY<br/>           : PEAK(LIN) 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:3000.000kHz SWTAuto</p> |
|      |  <p>Date: 2022-10-22</p> <p>Site Condition : 03CH07-HY<br/>           : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:0.010kHz SWTAuto</p>   |  <p>Date: 2022-10-22</p> <p>Site Condition : 03CH07-HY<br/>           : AVG_54 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:0.010kHz SWTAuto</p>     |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | 802.11ac VHT20 CH64 5320MHz   |  |
| 1+2  | Vertical  | Fundamental  |
| Peak |  <p>Site Condition : 03CH07-HY<br/>: PEAK_BE_74 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site Condition : 03CH07-HY<br/>: PEAK(LIN1) 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site Condition : 03CH07-HY<br/>: AVG_BE_54 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>   |  <p>Site Condition : 03CH07-HY<br/>: AVG_54 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>      |



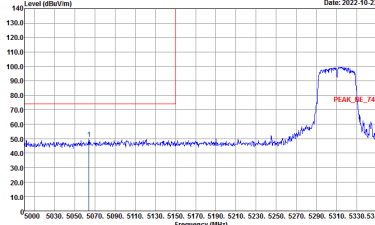
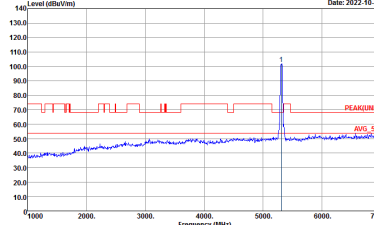
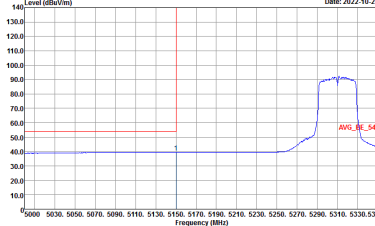
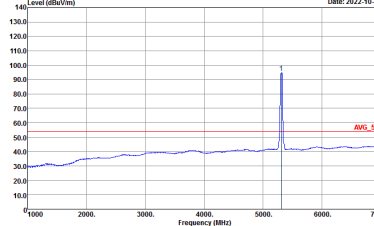
**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | 802.11ac VHT40 CH62 5310 - L  |  |
| 1+2  | Horizontal  | Fundamental  |
| Peak |  <p>Date: 2022-10-22</p> <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>PEAK_BE_74</p> <p>Site Condition : 03CH07-HY<br/>           : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> |  <p>Date: 2022-10-22</p> <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>PEAK(LIN)</p> <p>AVG_54</p> <p>Site Condition : 03CH07-HY<br/>           : PEAK(LIN) 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> |
|      |  <p>Date: 2022-10-22</p> <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>AVG_BE_54</p> <p>Site Condition : 03CH07-HY<br/>           : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>    |  <p>Date: 2022-10-22</p> <p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>AVG_54</p> <p>Site Condition : 03CH07-HY<br/>           : AVG_54 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>                      |
| Avg. |   |  |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m   |             |
|------|--|-------------|
| ANT  | 802.11ac VHT40 CH62 5310 - R   |             |
| 1+2  | Horizontal   | Fundamental |
| Peak | <p>Site : 03CH07-RY<br/>Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> | Left blank  |
| Avg. | <p>Site : 03CH07-RY<br/>Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>     | Left blank  |



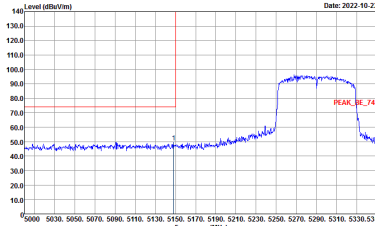
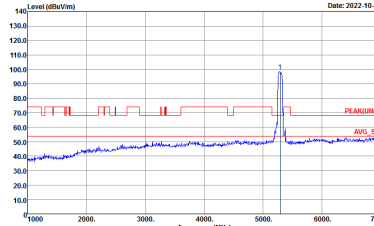
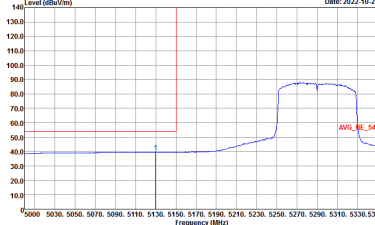
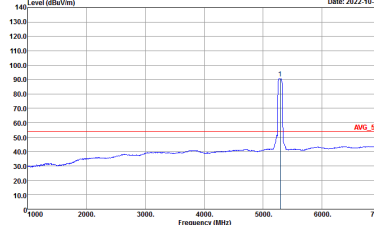
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m  |   |
|------|---|---|
| ANT  | 802.11ac VHT40 CH62 5310 - L  |   |
| 1+2  | Vertical  | Fundamental   |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK(LIN) 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_54 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>     |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m   |             |
|------|--|-------------|
| ANT  | 802.11ac VHT40 CH62 5310 - R   |             |
| 1+2  | Vertical   | Fundamental |
| Peak | <p>Site : 03CH07-RV<br/>Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> | Left blank  |
| Avg. | <p>Site : 03CH07-RV<br/>Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>     | Left blank  |



**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

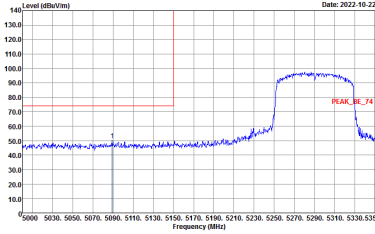
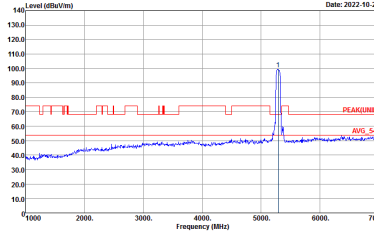
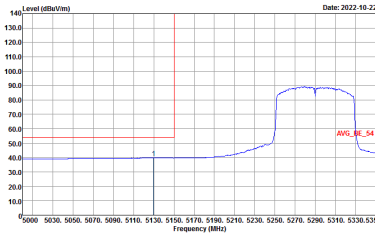
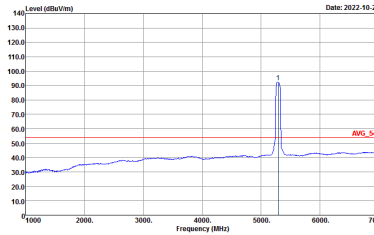
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m   |  |
|------|--|--|
| ANT  | 802.11ac VHT80 CH58 5290MHz - L  |  |
| 1+2  | Horizontal   | Fundamental  |
| Peak |  <p>Date: 2022-10-22</p> <p>Level (dBuV/m) vs Frequency (MHz)</p> <p>Peak: PEAK_BE_74</p> <p>Site Condition: : 03CH07-HY<br/>: PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTAuto</p> |  <p>Date: 2022-10-22</p> <p>Level (dBuV/m) vs Frequency (MHz)</p> <p>Peak: PEAK(LIN)1</p> <p>Avg: AVG_54</p> <p>Site Condition: : 03CH07-HY<br/>: PEAK(LIN)1 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTAuto</p> |
|      |  <p>Date: 2022-10-22</p> <p>Level (dBuV/m) vs Frequency (MHz)</p> <p>Avg: AVG_BE_54</p> <p>Site Condition: : 03CH07-HY<br/>: AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTAuto</p>     |  <p>Date: 2022-10-22</p> <p>Level (dBuV/m) vs Frequency (MHz)</p> <p>Avg: AVG_54</p> <p>Site Condition: : 03CH07-HY<br/>: AVG_54 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTAuto</p>                              |
| Avg. |  |  |



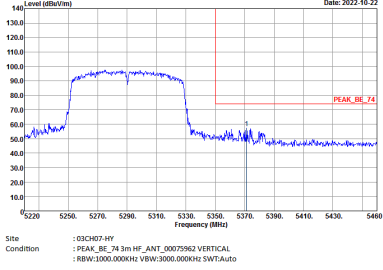
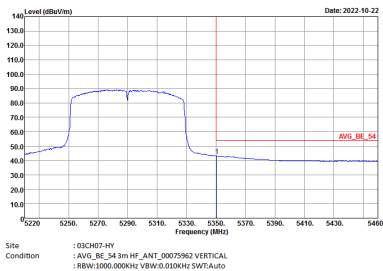


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m   |             |
|------|--|-------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - R  |             |
| 1+2  | Horizontal   | Fundamental |
| Peak | <p>Site : 03CH07-RY<br/>Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> | Left blank  |
| Avg. | <p>Site : 03CH07-RY<br/>Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>     | Left blank  |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m  |   |
|------|---|---|
| ANT  | 802.11ac VHT80 CH58 5290MHz - L   |   |
| 1+2  | Vertical  | Fundamental   |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK(LIN) 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_54 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>     |



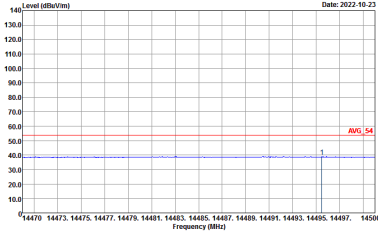
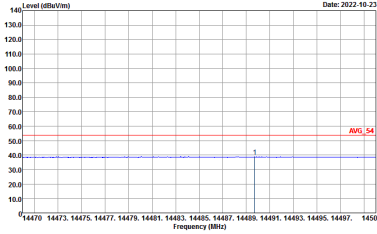
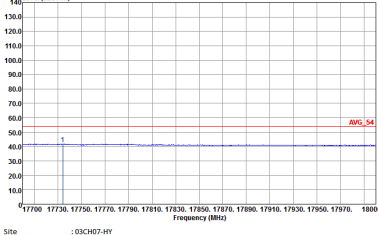
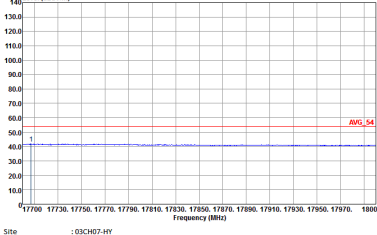
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m  |             |
|------|---|-------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - R   |             |
| 1+2  | Vertical  | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |



**Band 2 - 5250~5350MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

|                            |  |  |
|----------------------------|--|--|
| <b>WIFI</b>                | <b>Band 2 5250~5350MHz Harmonic @ 3m</b>   |  |
| <b>ANT</b>                 | <b>802.11a CH60 5300MHz</b>  |  |
| <b>1+2</b>                 | <b>Horizontal</b>  | <b>Vertical</b>  |
| <b>Peak</b><br><b>Avg.</b> | <p>Site : 03C1027-411<br/>         Condition : PEAK(UWB) 3m HE_ANT_00075962 HORIZONTAL</p> | <p>Site : 03C1027-411<br/>         Condition : PEAK(UWB) 3m HE_ANT_00075962 VERTICAL</p> |



| WIFI   | Band 2 5250~5350MHz Harmonic @ 3m  |   |
|--|--|---|
| ANT  | 802.11a CH60 5300MHz   |   |
| 1+2  | Horizontal   | Vertical  |
| <p><b>14.47G</b><br/><b>~14.5G</b><br/><b>Avg.</b></p> |  <p>Site : 03CH07-HY<br/>Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_54 3m HF_ANT_00075962 VERTICAL</p>   |
| <p><b>17.7G</b><br/><b>~18G</b><br/><b>Avg</b></p>     |  <p>Site : 03CH07-HY<br/>Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL</p> |  <p>Site : 03CH07-HY<br/>Condition : AVG_54 3m HF_ANT_00075962 VERTICAL</p> |

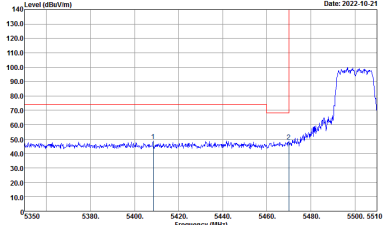
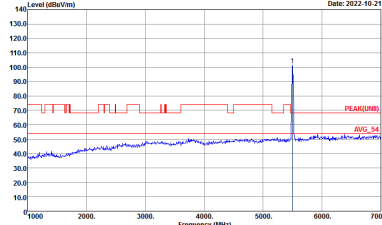
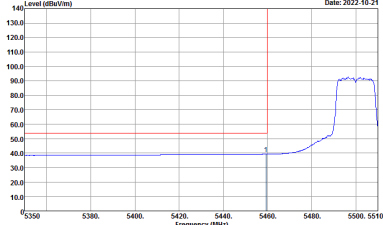
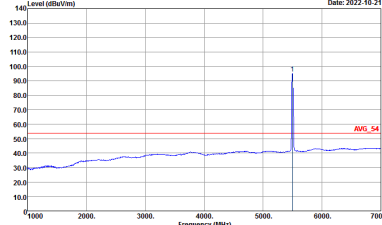


**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT20 (Harmonic @ 3m)**

|                            |  |  |
|----------------------------|--|--|
| <b>WIFI</b>                | <b>Band 2 5250~5350MHz Harmonic @ 3m</b>   |  |
| <b>ANT</b>                 | <b>802.11ac VHT20 CH60 5300MHz</b>   |  |
| <b>1+2</b>                 | <b>Horizontal</b>  | <b>Vertical</b>  |
| <b>Peak</b><br><b>Avg.</b> | <p>Site : 03CH07-HY<br/>         Condition : PEAK(LINII) 3m HF_ANT_00075962 HORIZONTAL</p> | <p>Site : 03CH07-HY<br/>         Condition : PEAK(LINII) 3m HF_ANT_00075962 VERTICAL</p> |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m   |   |
|------|--|---|
| ANT  | 802.11a CH100 5500MHz  |   |
| 1+2  | Horizontal   | Fundamental   |
| Peak |  <p>Site : 03CH07-HY<br/>           Condition : PEAK_BELUN111_B3 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>  |  <p>Site : 03CH07-HY<br/>           Condition : PEAK_BELUN111 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>           Condition : AVG_BELUN111_B3 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH07-HY<br/>           Condition : AVG_S4 3m HF_ANT_00075962 HORIZONTAL<br/>           : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>      |



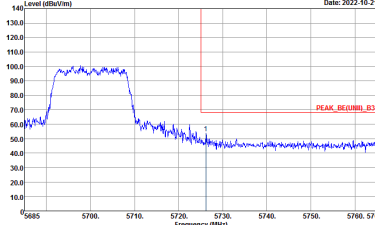
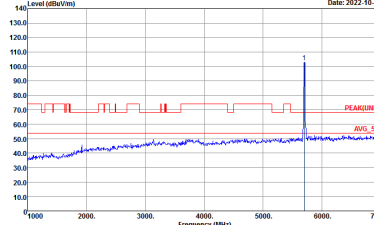
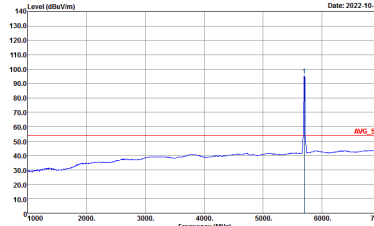
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m   |  |
|------|--|--|
| ANT  | 802.11a CH100 5500MHz  |  |
| 1+2  | Vertical   | Fundamental  |
| Peak | <p>Site : 03CH07-HY<br/>Condition : PEAK_BE(LIN11)_B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz; VBW:3000.000kHz; SWT:Auto</p> | <p>Site : 03CH07-HY<br/>Condition : PEAK(LIN11) 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz; VBW:3000.000kHz; SWT:Auto</p> |
|      | <p>Site : 03CH07-HY<br/>Condition : AVG_BE(LIN11)_B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz; VBW:0.010kHz; SWT:Auto</p>     | <p>Site : 03CH07-HY<br/>Condition : AVG_S4 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz; VBW:0.010kHz; SWT:Auto</p>         |





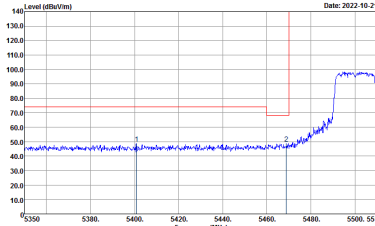
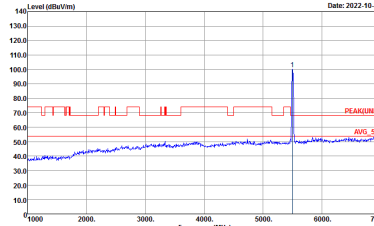
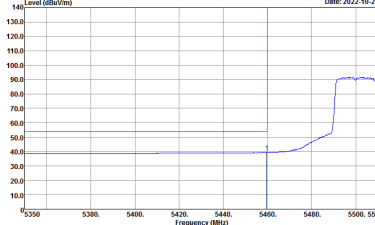
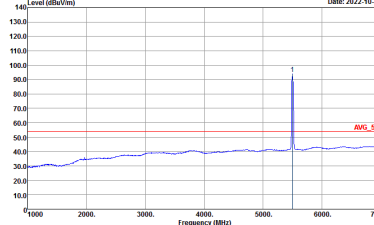
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m  |   |
|------|---|---|
| ANT  | 802.11a CH140 5700MHz   |   |
| 1+2  | Horizontal  | Fundamental   |
| Peak | <p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Site : 03CH07-HY<br/>Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. | Left blank  | <p>Site : 03CH07-HY<br/>Condition : AVG_34 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010MHz SWT:Auto</p>        |



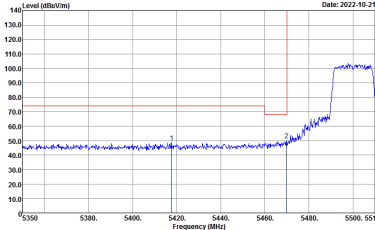
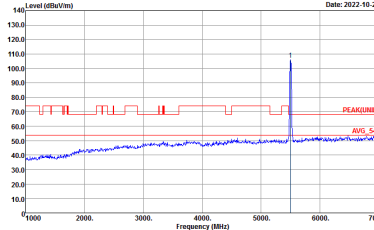
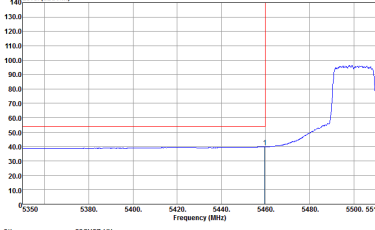
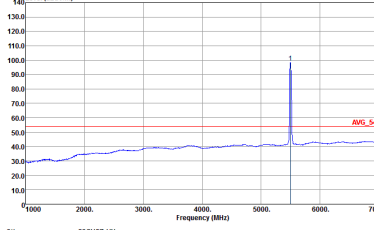
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | 802.11a CH140 5700MHz   |  |
| 1+2  | Vertical  | Fundamental  |
| Peak |  <p>Date: 2022-10-21</p> <p>Site Condition : 03CH07-HY<br/>: PEAK_BE(UNII)_B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Date: 2022-10-21</p> <p>Site Condition : 03CH07-HY<br/>: PEAK(UNII)_3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. | Left blank  |  <p>Date: 2022-10-21</p> <p>Site Condition : 03CH07-HY<br/>: AVG_S4 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010MHz SWT:Auto</p>      |



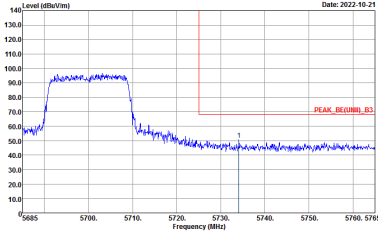
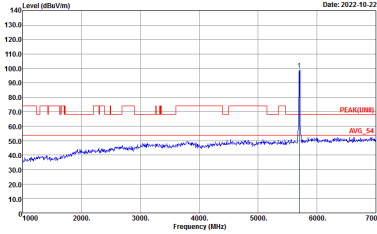
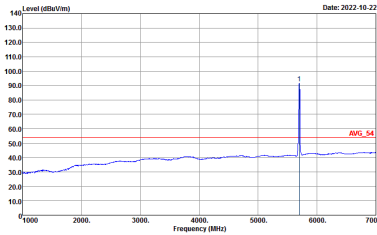
**Band 3 5470~5725MHz  
WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m   |   |
|------|--|---|
| ANT  | 802.11ac VHT20 CH100 5500MHz   |   |
| 1+2  | Horizontal   | Fundamental   |
| Peak |  <p>Date: 2022-10-21</p> <p>Site Condition : 03CH07-HY<br/>: PEAK_BE(LNUI)_B3 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> |  <p>Date: 2022-10-21</p> <p>Site Condition : 03CH07-HY<br/>: PEAK(LNUI) 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> |
|      |  <p>Date: 2022-10-21</p> <p>Site Condition : 03CH07-HY<br/>: AVG_BE(LNUI)_B3 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>   |  <p>Date: 2022-10-21</p> <p>Site Condition : 03CH07-HY<br/>: AVG_S4 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>      |
| Avg. |  |   |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | 802.11ac VHT20 CH100 5500MHz  |  |
| 1+2  | Vertical  | Fundamental  |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE(LIN1) B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK(LIN1) 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE(LIN1) B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_S4 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>      |



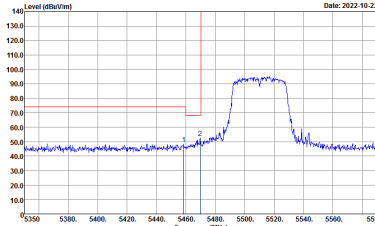
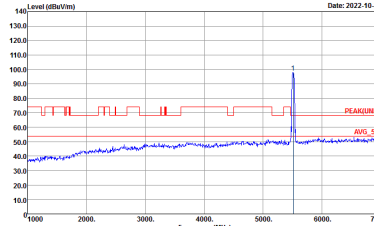
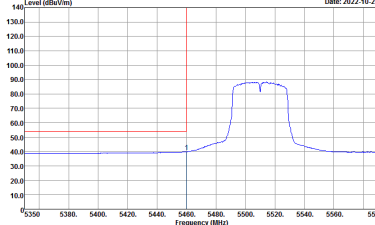
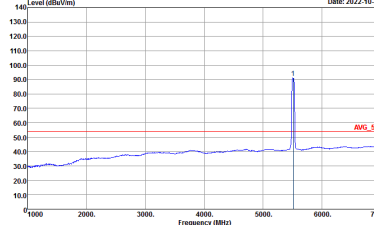
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m   |   |
|------|--|---|
| ANT  | 802.11ac VHT20 CH140 5700MHz   |   |
| 1+2  | Horizontal   | Fundamental   |
| Peak |  <p>Site Condition : 03CH07-HY<br/>: PEAK_BE(UNI)_B3 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site Condition : 03CH07-HY<br/>: PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. | Left blank   |  <p>Site Condition : 03CH07-HY<br/>: AVG_S4 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010MHz SWT:Auto</p>     |



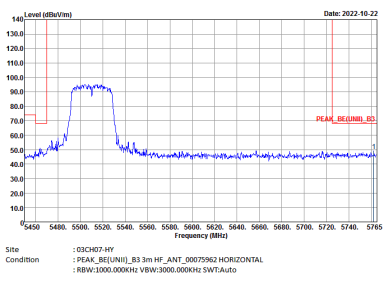
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m   |   |
|------|--|---|
| ANT  | 802.11ac VHT20 CH140 5700MHz   |   |
| 1+2  | Vertical   | Fundamental   |
| Peak | <p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UNI)_B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Site : 03CH07-HY<br/>Condition : PEAK(FUNB) 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. | Left blank   | <p>Site : 03CH07-HY<br/>Condition : AVG_S4 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010MHz SWT:Auto</p>        |



**Band 3 5470~5725MHz  
WIFI 802.11ac VHT40 (Band Edge @ 3m)**

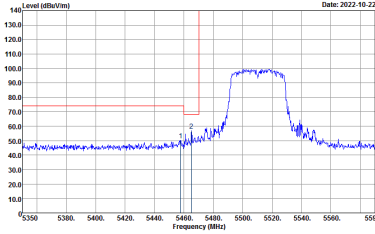
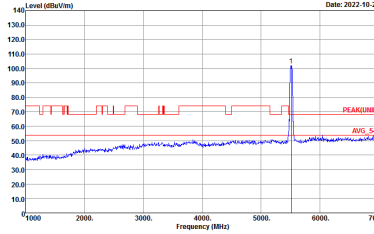
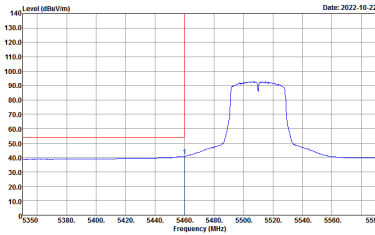
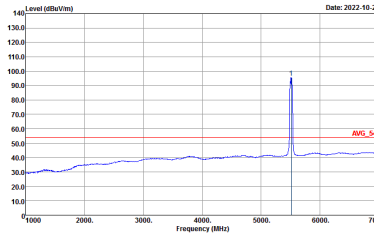
| WIFI        | Band 3 5470~5725MHz Band Edge @ 3m  |  |
|-------------|---|--|
| ANT         | 802.11ac VHT40 CH102 5510MHz - L  |  |
| 1+2         | Horizontal  | Fundamental  |
| <b>Peak</b> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE(LN1U1)_B3 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK(LN1U1) 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> |
| <b>Avg.</b> |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE(LN1U1)_B3 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_S4 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWTA:Auto</p>       |



|      |   |             |
|------|---|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m  |             |
| ANT  | 802.11ac VHT40 CH102 5510MHz - R  |             |
| 1+2  | Horizontal  | Fundamental |
| Peak |  | Left blank  |



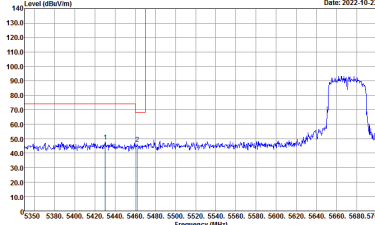
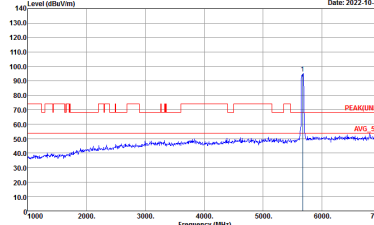
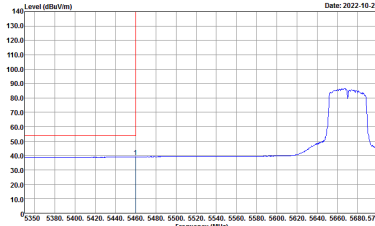
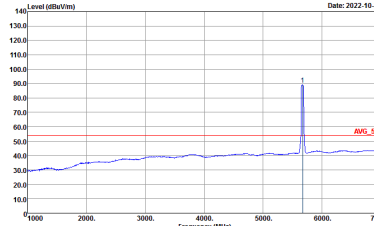


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | 802.11ac VHT40 CH102 5510MHz - L  |  |
| 1+2  | Vertical  | Fundamental  |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE(LIN1) B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK(LIN1) 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE(LIN1) B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_S4 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>      |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m   |             |
|------|--|-------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - R   |             |
| 1+2  | Vertical   | Fundamental |
| Peak | <p>Site : D:\CH07\01<br/>Condition : PEAK_BE(UNH)_B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWFAuto</p> | Left blank  |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m  |  |
|------|---|--|
| ANT  | 802.11ac VHT40 CH134 5670MHz - L  |  |
| 1+2  | Horizontal  | Fundamental  |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE(LIN1) B3 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK(LIN1) 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE(LIN1) B3 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>   |  <p>Site : 03CH07-HY<br/>Condition : AVG_S4 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>      |



|      |   |             |
|------|---|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m  |             |
| ANT  | 802.11ac VHT40 CH134 5670MHz - R  |             |
| 1+2  | Horizontal  | Fundamental |
| Peak | <p>Site : D3CH27-RT<br/>Condition : PEAK_REC(NB)_B3 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWTA:Auto</p> | Left blank  |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m  |   |
|------|---|---|
| ANT  | 802.11ac VHT40 CH134 5670MHz - L  |   |
| 1+2  | Vertical  | Fundamental   |
| Peak | <p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Site : 03CH07-HY<br/>Condition : PEAK(UNII)_3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : AVG_BE(UNII)_B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>     | <p>Site : 03CH07-HY<br/>Condition : AVG_S4 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>        |



|      |  |             |
|------|--|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m   |             |
| ANT  | 802.11ac VHT40 CH134 5670MHz - R   |             |
| 1+2  | Vertical   | Fundamental |
| Peak | <p>Site : D:\CH27\RF<br/>Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank  |



Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

Table with 2 columns (WIFI, ANT) and 2 rows (1+2, Peak, Avg.). It contains four spectral plots: Horizontal and Fundamental for Peak, and Horizontal and Fundamental for Avg. Each plot shows Level (dBuV/m) vs Frequency (MHz) with technical parameters like Site, Condition, and RBW.



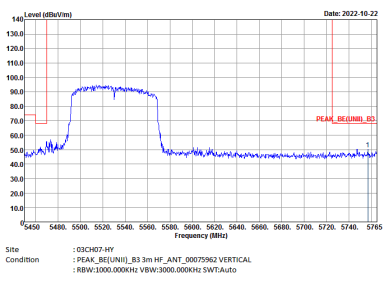
|      |   |             |
|------|---|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m  |             |
| ANT  | 802.11ac VHT80 CH106 5530MHz - R  |             |
| 1+2  | Horizontal  | Fundamental |
| Peak | <p>Site : D3CH07-011<br/>Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWTA:Auto</p> | Left blank  |





| WIFI | Band 3 5470~5725MHz Band Edge @ 3m  |   |
|------|---|---|
| ANT  | 802.11ac VHT80 CH106 5530MHz - L  |   |
| 1+2  | Vertical  | Fundamental   |
| Peak | <p>Site : 03CH07-HY<br/>Condition : PEAK_BE(LIN1) B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Site : 03CH07-HY<br/>Condition : PEAK(LIN1) 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : AVG_BE(LIN1) B3 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>     | <p>Site : 03CH07-HY<br/>Condition : AVG_S4 3m HF_ANT_00075962 VERTICAL<br/>: RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>        |



|      |   |             |
|------|---|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m  |             |
| ANT  | 802.11ac VHT80 CH106 5530MHz - R  |             |
| 1+2  | Vertical  | Fundamental |
| Peak |  | Left blank  |



Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Rows include: WIFI (Band 3 5470~5725MHz Harmonic @ 3m), ANT (802.11a CH116 5580MHz), 1+2 (Peak, Avg.), and two spectral plots showing Level (dBuV/m) vs Frequency (MHz) for both orientations.



Band 3 5470~5725MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

Table with 4 rows and 2 columns. Row 1: WIFI | Band 3 5470~5725MHz Harmonic @ 3m. Row 2: ANT | 802.11ac VHT20 CH116 5580MHz. Row 3: 1+2 | Horizontal | Vertical. Row 4: Peak Avg. | [Two spectral plots: Horizontal and Vertical].



Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF)

Table with 2 columns: Horizontal and Vertical. Rows include WIFI (5GHz WIFI), ANT (802.11ac VHT80 LF), 1+2, and QP / Peak. Each plot shows Level (dBuV/m) vs Frequency (MHz) with a red QP line and a blue signal trace.



## Appendix E. Duty Cycle Plots

| Chain | Band                | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting |
|-------|---------------------|---------------|-------|----------|-------------|
| 1+0   | 802.11a             | 100.00        | -     | -        | 10Hz        |
| 1+0   | 5GHz 802.11ac VHT20 | 100.00        | -     | -        | 10Hz        |
| 1+0   | 5GHz 802.11ac VHT40 | 100.00        | -     | -        | 10Hz        |
| 1+0   | 5GHz 802.11ac VHT80 | 100.00        | -     | -        | 10Hz        |

Remark: For Radiated Spurious Emission Test Items, Ant. 1 means Chain 1 and Ant. 2 means Chain 0.

### MIMO <Chain 1+0>

