

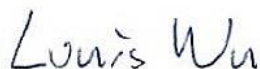
# FCC RADIO TEST REPORT

FCC ID : APYHRO00276  
Equipment : Smart phone  
Brand Name : SHARP  
Applicant : SHARP CORPORATION  
2-13-1, Hachihonmatsu-lida,  
Higashi-hiroshima-shi, Hiroshima pref. 739-0192,  
Japan  
Manufacturer : SHARP CORPORATION  
1 Takumi-Cho, Sakai-Ku, Sakai-Shi, Osaka  
590-8522, Japan  
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jul. 16, 2019 and testing was started from Jul. 27, 2019 and completed on Aug. 06, 2019. 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of 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, Taiwan (R.O.C.)



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## History of this test report

| Report No. | Version | Description             | Issued Date   |
|------------|---------|-------------------------|---------------|
| FR971613E  | 01      | Initial issue of report | Aug. 21, 2019 |
|            |         |                         |               |
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## Summary of Test Result

| Report Clause | Ref Std. Clause     | Test Items                             | Result (PASS/FAIL) | Remark                                    |
|---------------|---------------------|----------------------------------------|--------------------|-------------------------------------------|
| 3.1           | 15.403(i)           | 26dB Bandwidth                         | Pass               | -                                         |
| 3.1           | 2.1049              | 99% Occupied Bandwidth                 | Reporting only     | -                                         |
| 3.2           | 15.407(a)           | Maximum Conducted Output Power         | Pass               | -                                         |
| 3.3           | 15.407(a)           | Power Spectral Density                 | Pass               | -                                         |
| 3.4           | 15.407(b)           | Unwanted Emissions                     | Pass               | Under limit<br>3.15 dB at<br>5460.000 MHz |
| 3.5           | 15.207              | AC Conducted Emission                  | Pass               | Under limit<br>15.07 dB at<br>2.499 MHz   |
| 3.6           | 15.407(c)           | Automatically Discontinue Transmission | Pass               | -                                         |
| 3.7           | 15.203<br>15.407(a) | Antenna Requirement                    | Pass               | -                                         |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Wii Chang**

**Report Producer: Yimin Ho**

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, NFC, and GNSS.

| Product Specification subjective to this standard |                                                                                                                                      |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Sample 1                                          | 1st vender parts                                                                                                                     |
| Sample 2                                          | 2nd vender parts                                                                                                                     |
| Antenna Type                                      | WWAN: PIFA Antenna<br>WLAN: ILA Antenna<br>Bluetooth: ILA Antenna<br>GPS / Glonass / BDS / Galileo: ILA Antenna<br>NFC: Loop Antenna |

**Remark:** All test items were performed with Sample 1.

## 1.2 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.3 Testing Location

|                    |                                                                                                                       |         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|---------|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory                                                   |         |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |         |
| Test Site No.      | Sporton Site No.                                                                                                      |         |
|                    | TH05-HY                                                                                                               | CO05-HY |

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

|                    |                                                                                                                                           |  |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory                                                                       |  |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |  |
| Test Site No.      | Sporton Site No.                                                                                                                          |  |
|                    | 03CH11-HY                                                                                                                                 |  |

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

FCC designation No.: TW1190 and TW0007



## **1.4 Applicable Standards**

According to the specifications of 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.
- ♦ ANSI C63.10-2013

### **Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 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, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded 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        |

**Note:**

1. The above Frequency and Channel in "\*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "<sup>#</sup>" were 802.11ac VHT80.

## 2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

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

| Test Cases                  |                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| AC<br>Conducted<br>Emission | Mode 1 : WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + Camera (Rear) + Earphone + USB Cable (Charging from AC Adapter) |



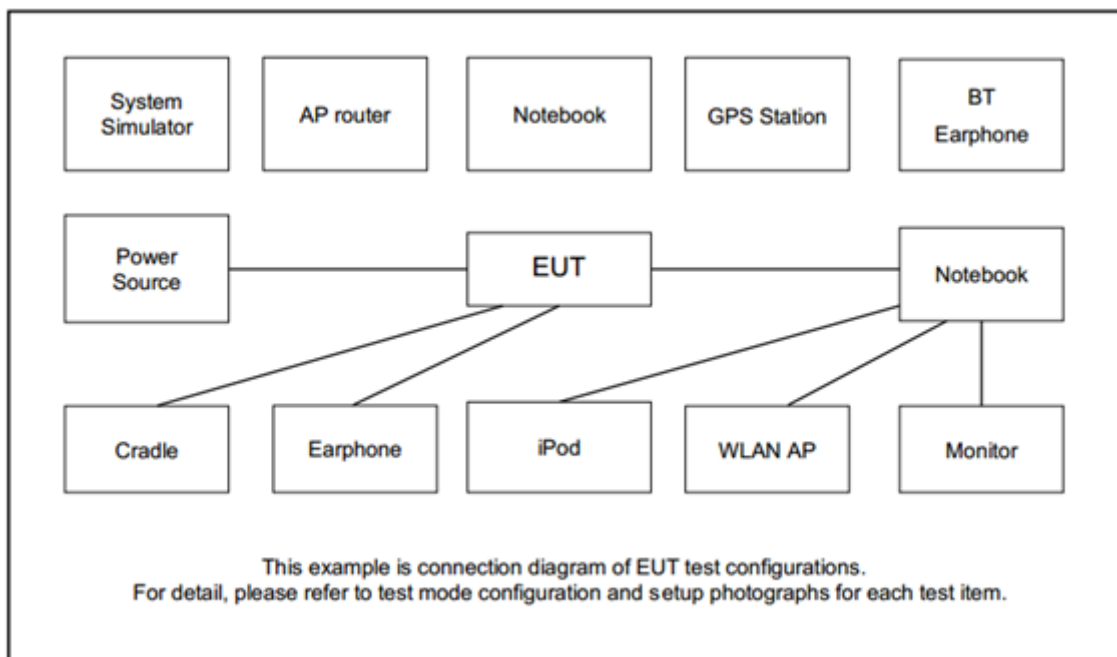
| Ch. # |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11a                | 802.11a                 | 802.11a                 |
| L     | Low    | 36                     | 52                      | 100                     |
| M     | Middle | 44                     | 60                      | 116                     |
| H     | High   | 48                     | 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                     | 52                      | 100                     |
| M     | Middle | 44                     | 60                      | 116                     |
| H     | High   | 48                     | 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                     | 54                      | 102                     |
| M     | Middle | -                      | -                       | 110                     |
| H     | High   | 46                     | 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   | -                      | -                       | -                       |

## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

| Item | Equipment          | Trade Name    | Model Name     | FCC ID      | Data Cable       | Power Cord                                                 |
|------|--------------------|---------------|----------------|-------------|------------------|------------------------------------------------------------|
| 1.   | System Simulator   | Anritsu       | MT8820C        | N/A         | N/A              | Unshielded,1.8m                                            |
| 2.   | Bluetooth Earphone | Sony Ericsson | MW600          | PY700A2029  | N/A              | N/A                                                        |
| 3.   | WLAN AP            | ASUS          | RT-AC1750      | MSQ-RTAC66U | N/A              | Unshielded,1.8m                                            |
| 4.   | Notebook           | DELL          | Latitude E6320 | FCC DoC     | N/A              | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 5.   | SD Card            | SanDisk       | MicroSD HC     | FCC DoC     | N/A              | N/A                                                        |
| 6.   | Earphone           | SHARP         | RPHOEAA007AFZZ | N/A         | Unshielded, 1.2m | N/A                                                        |



## 2.5 EUT Operation Test Setup

The RF test items, utility “QRCT 4.0-00108” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

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

Example :

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

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 5.1 dB and 20dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 5.1 + 20 = 25.1 \text{ (dB)}\end{aligned}$$

### 3 Test Result

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

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

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

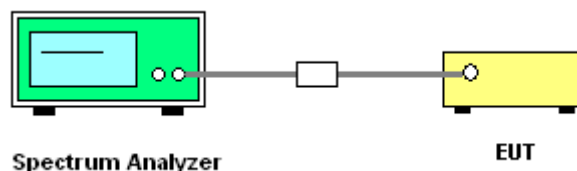
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

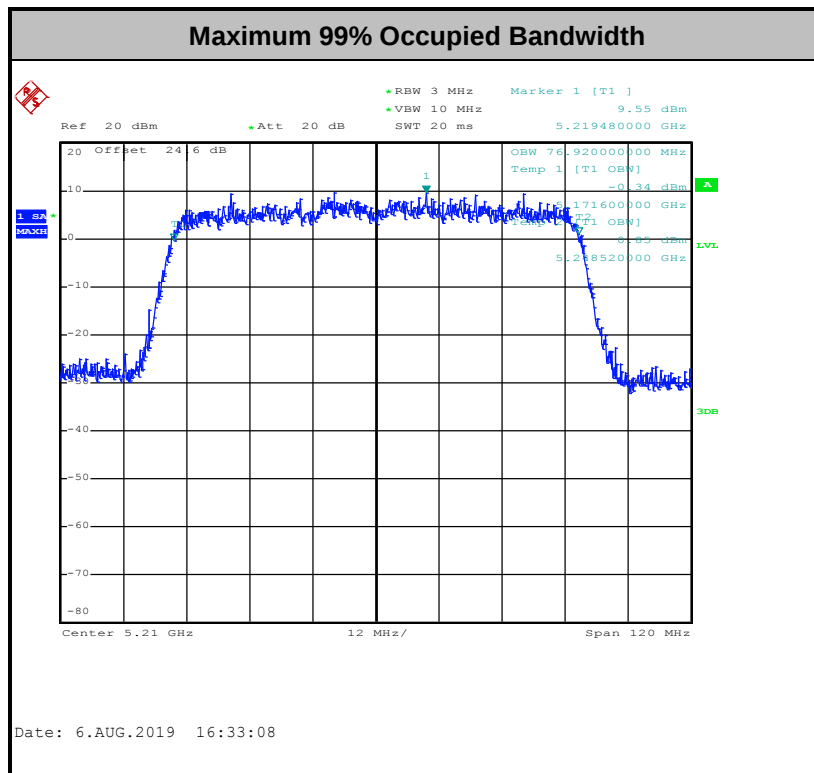
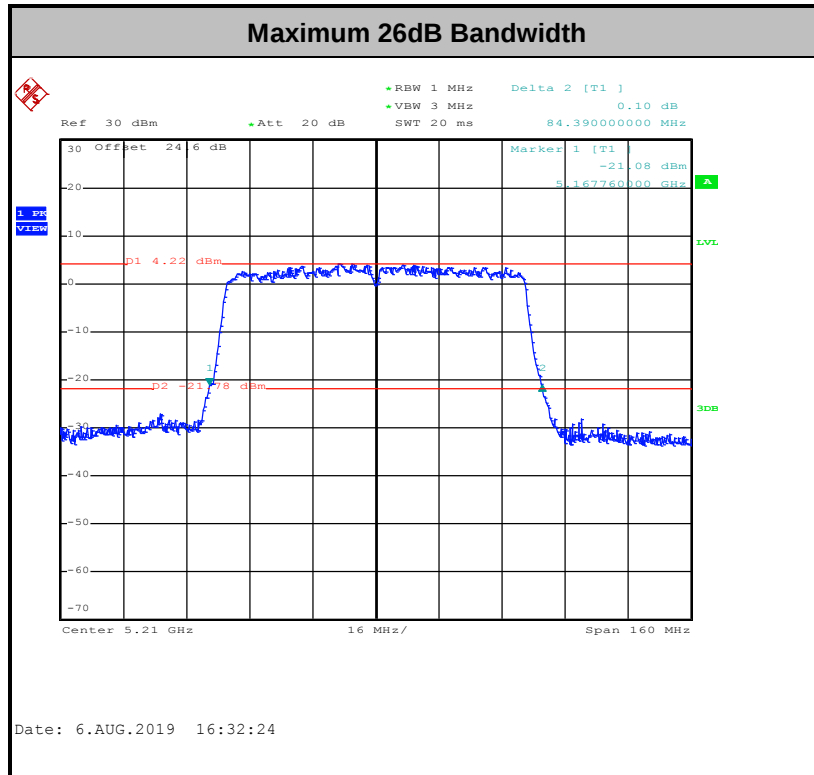
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB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

##### 3.1.4 Test Setup



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

Please refer to Appendix A.



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

## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

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

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

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

##### **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  $11 \text{ dBm} + 10 \log B$ , 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.

### 3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

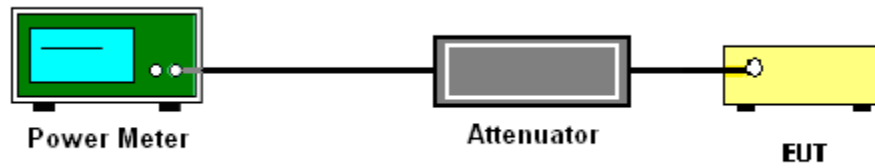
### 3.2.3 Test Procedures

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

Method PM-G (Measurement using an 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.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

**For the 5.15–5.25 GHz bands:**

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

**For the 5.25–5.725 GHz bands:**

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

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

#### 3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.3.3 Test Procedures

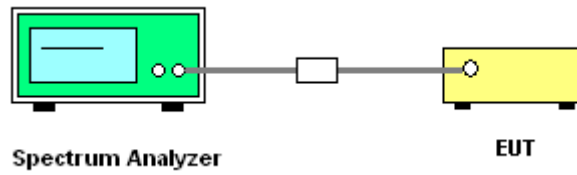
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.  
Section F) Maximum power spectral density.

**# Method SA-2 #**

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

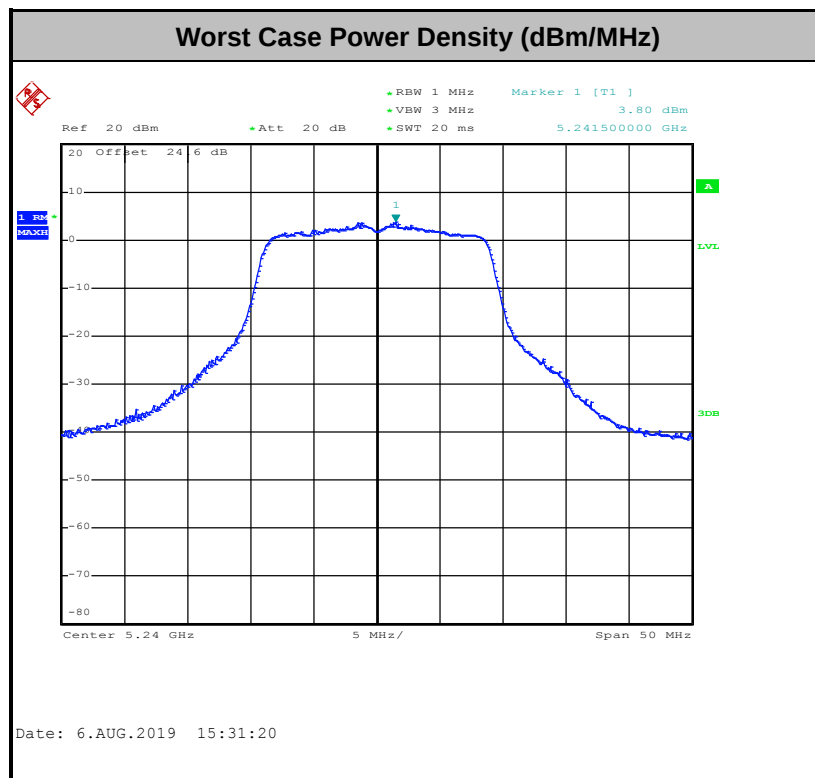
- Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 1 MHz.
  - Set VBW  $\geq$  3 MHz.
  - Number of points in sweep  $\geq$  2 Span / RBW.
  - Sweep time = auto.
  - Detector = RMS
  - Trace average at least 100 traces in power averaging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

### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



**Note:** Average Power Density (dB) = Measured value+ Duty Factor

### 3.4 Unwanted Emissions Measurement

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

#### 3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

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 fallen in restricted bands shall comply with the general field strength limits as below table:

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

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

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

| EIRP (dBm) | Field Strength at 3m (dBμV/m) |
|------------|-------------------------------|
| - 27       | 68.3                          |

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

- (i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits 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.<sup>3</sup>
- (ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.<sup>4</sup>

**Note 3:** An out-of-band emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit.

**Note 4:** Only devices with antenna gains of 10 dBi or less may be approved using the emission limits specified in Section 15.247(d) till March 2, 2018; all other devices operating in this band must use the mask specified in Section 15.407(b)(4)(i).

### 3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

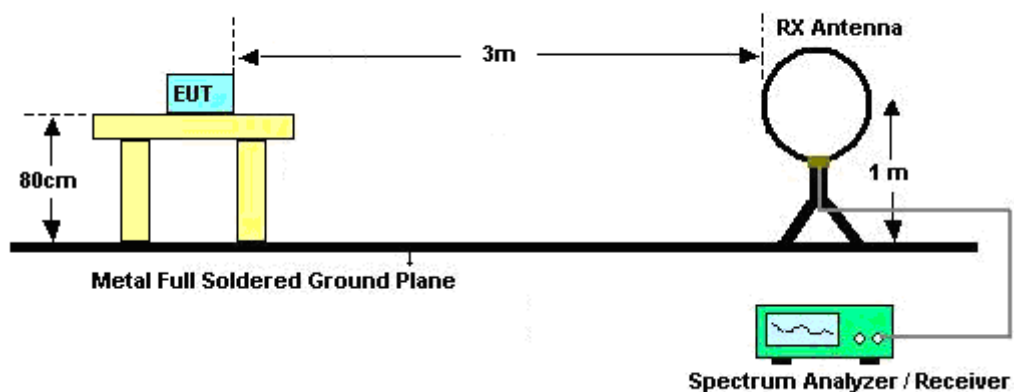
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- 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.

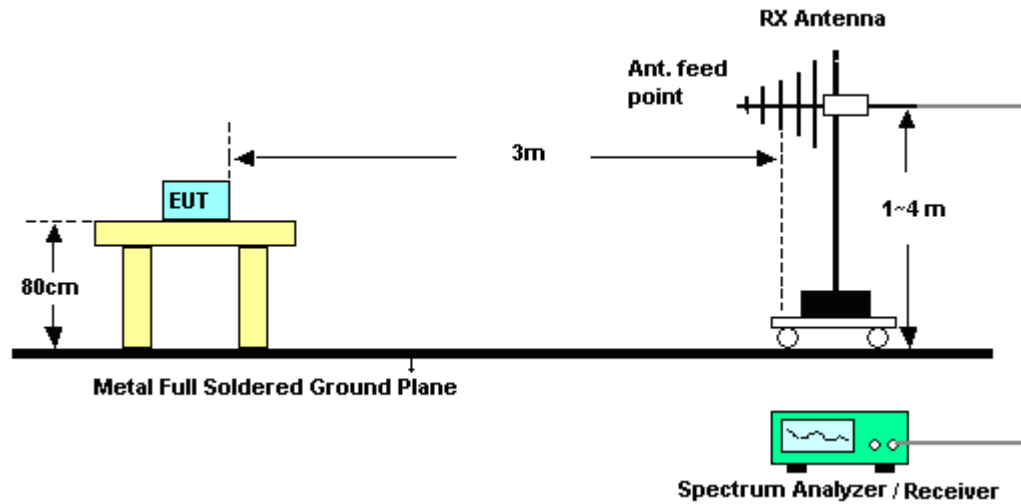
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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 was 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. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.4 Test Setup

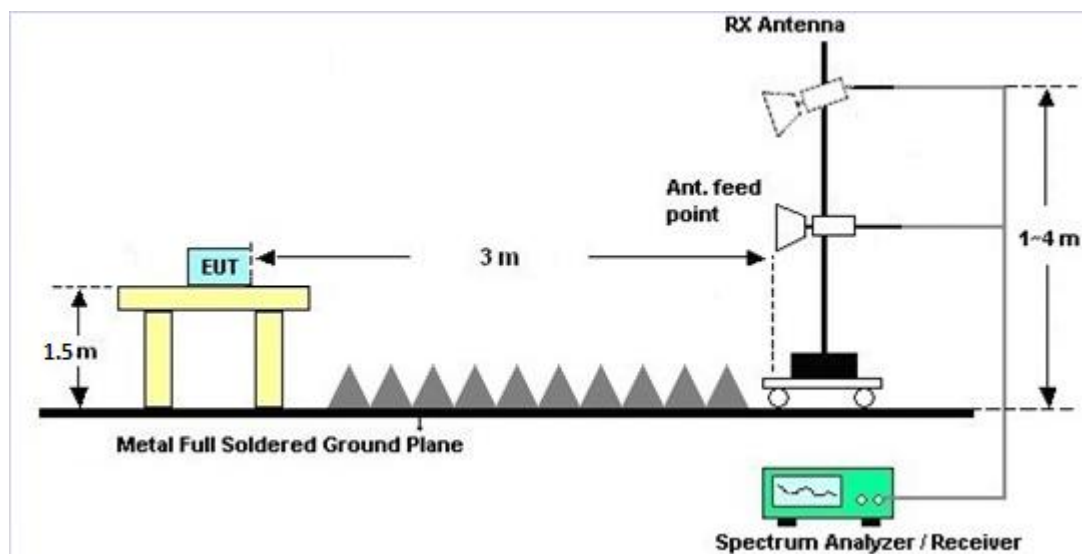
**For radiated emissions below 30MHz**



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

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

Please refer to Appendix C and D.

**3.4.7 Duty Cycle**

Please refer to Appendix E.

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

Please refer to Appendix C and D.

### 3.5 AC Conducted Emission Measurement

#### 3.5.1 Limit of AC Conducted Emission

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

| Frequency of emission (MHz) | Conducted limit (dB $\mu$ V) |           |
|-----------------------------|------------------------------|-----------|
|                             | Quasi-peak                   | Average   |
| 0.15-0.5                    | 66 to 56*                    | 56 to 46* |
| 0.5-5                       | 56                           | 46        |
| 5-30                        | 60                           | 50        |

\*Decreases with the logarithm of the frequency.

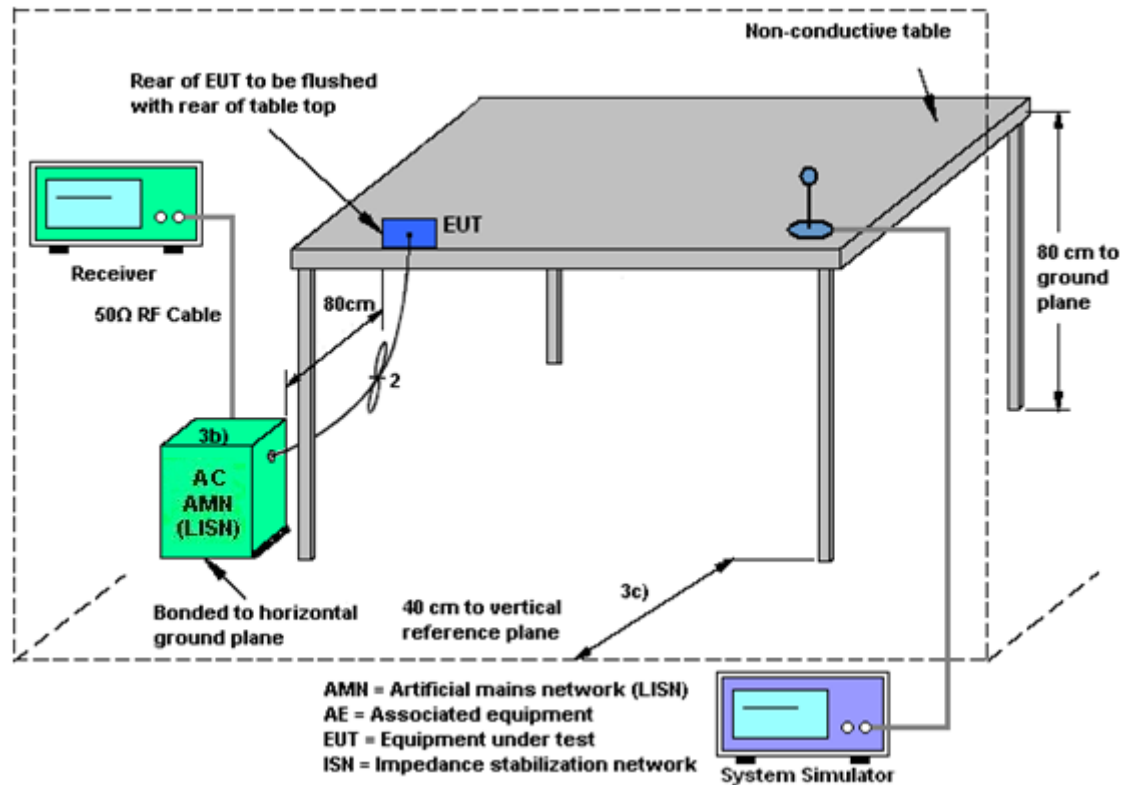
#### 3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was 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 should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

## **3.6 Automatically Discontinue Transmission**

### **3.6.1 Limit of Automatically Discontinue Transmission**

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

### **3.6.2 Measuring Instruments**

See list of measuring equipment of this test report.

### **3.6.3 Test Result of Automatically Discontinue Transmission**

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **3.7.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.7.3 Antenna Gain**

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 4 List of Measuring Equipment

| Instrument            | Manufacturer      | Model No.                            | Serial No.         | Characteristics      | Calibration Date | Test Date                       | Due Date      | Remark                   |
|-----------------------|-------------------|--------------------------------------|--------------------|----------------------|------------------|---------------------------------|---------------|--------------------------|
| Power Sensor          | DARE              | RPR3006W                             | 13100030S<br>NO32  | 9kHz~6GHz            | Dec. 03, 2018    | Jul. 27, 2019~<br>Aug. 06, 2019 | Dec. 02, 2019 | Conducted<br>(TH05-HY)   |
| Spectrum Analyzer     | Rohde & Schwarz   | FSP40                                | 100057             | 9kHz-40GHz           | Nov. 21, 2018    | Jul. 27, 2019~<br>Aug. 06, 2019 | Nov. 20, 2019 | Conducted<br>(TH05-HY)   |
| Switch Box & RF Cable | Burgeon           | ETF-058                              | EC120838<br>2      | N/A                  | Mar. 27, 2019    | Jul. 27, 2019~<br>Aug. 06, 2019 | Mar. 26, 2020 | Conducted<br>(TH05-HY)   |
| Preamplifier          | EMEC              | EM18G40G                             | 060715             | 18GHz ~ 40GHz        | Dec. 06, 2018    | Jul. 27, 2019~<br>Aug. 06, 2019 | Dec. 05, 2019 | Radiation<br>(03CH11-HY) |
| Amplifier             | SONOMA            | 310N                                 | 187312             | 9kHz~1GHz            | Dec. 04, 2018    | Jul. 27, 2019~<br>Aug. 06, 2019 | Dec. 03, 2019 | Radiation<br>(03CH11-HY) |
| Bilog Antenna         | TESEQ             | CBL 6111D&N<br>-6-06                 | 35414&AT-<br>N0602 | 30MHz~1GHz           | Oct. 13, 2018    | Jul. 27, 2019~<br>Aug. 06, 2019 | Oct. 12, 2019 | Radiation<br>(03CH11-HY) |
| Horn Antenna          | SCHWARZBE<br>CK   | BBHA 9120 D                          | 9120D-132<br>6     | 1GHz ~ 18GHz         | Oct. 30, 2018    | Jul. 27, 2019~<br>Aug. 06, 2019 | Oct. 29, 2019 | Radiation<br>(03CH11-HY) |
| Loop Antenna          | Rohde & Schwarz   | HFH2-Z2                              | 100488             | 9 kHz~30 MHz         | Nov. 22, 2018    | Jul. 27, 2019~<br>Aug. 06, 2019 | Nov. 21, 2019 | Radiation<br>(03CH11-HY) |
| Preamplifier          | Keysight          | 83017A                               | MY532700<br>80     | 1GHz~26.5GHz         | Nov. 14, 2018    | Jul. 27, 2019~<br>Aug. 06, 2019 | Nov. 13, 2020 | Radiation<br>(03CH11-HY) |
| Spectrum Analyzer     | Keysight          | N9010A                               | MY542004<br>86     | 10Hz ~ 44GHz         | Oct. 19, 2018    | Jul. 27, 2019~<br>Aug. 06, 2019 | Oct. 18, 2019 | Radiation<br>(03CH11-HY) |
| Antenna Mast          | EMEC              | AM-BS-4500-B                         | N/A                | 1~4m                 | N/A              | Jul. 27, 2019~<br>Aug. 06, 2019 | N/A           | Radiation<br>(03CH11-HY) |
| Turn Table            | EMEC              | TT 2000                              | N/A                | 0~360 Degree         | N/A              | Jul. 27, 2019~<br>Aug. 06, 2019 | N/A           | Radiation<br>(03CH11-HY) |
| Preamplifier          | MITEQ             | AMF-7D-00101<br>800-30-10P           | 1590074            | 1GHz~18GHz           | May 20, 2019     | Jul. 27, 2019~<br>Aug. 06, 2019 | May 19, 2020  | Radiation<br>(03CH11-HY) |
| SHF-EHF Horn Antenna  | SCHWARZBE<br>CK   | BBHA 9170                            | BBHA9170<br>584    | 18GHz- 40GHz         | Dec. 05, 2018    | Jul. 27, 2019~<br>Aug. 06, 2019 | Dec. 04, 2019 | Radiation<br>(03CH11-HY) |
| EMI Test Receiver     | Keysight          | N9038A(MXE)                          | MY541300<br>85     | N/A                  | Nov. 01, 2018    | Jul. 27, 2019~<br>Aug. 06, 2019 | Oct. 31, 2019 | Radiation<br>(03CH11-HY) |
| Software              | Audix             | E3 6.2009-8-24                       | RK-00104<br>2      | N/A                  | N/A              | Jul. 27, 2019~<br>Aug. 06, 2019 | N/A           | Radiation<br>(03CH11-HY) |
| RF Cable              | HUBER +<br>SUHNER | SUCOFLEX<br>104                      | MY9837/4<br>PE     | 9kHz-30MHz           | Mar. 13, 2019    | Jul. 27, 2019~<br>Aug. 06, 2019 | Mar. 12, 2020 | Radiation<br>(03CH11-HY) |
| RF Cable              | HUBER +<br>SUHNER | SUCOFLEX<br>102                      | MY2859/2           | 30MHz-40GHz          | Mar. 13, 2019    | Jul. 27, 2019~<br>Aug. 06, 2019 | Mar. 12, 2020 | Radiation<br>(03CH11-HY) |
| RF Cable              | HUBER +<br>SUHNER | SUCOFLEX<br>104                      | MY9837/4<br>PE     | 30M-18G              | Mar. 13, 2019    | Jul. 27, 2019~<br>Aug. 06, 2019 | Mar. 12, 2020 | Radiation<br>(03CH11-HY) |
| RF Cable              | HUBER +<br>SUHNER | SUCOFLEX<br>102                      | MY4274/2           | 30MHz-40GHz          | Mar. 13, 2019    | Jul. 27, 2019~<br>Aug. 06, 2019 | Mar. 12, 2020 | Radiation<br>(03CH11-HY) |
| Filter                | Wainwright        | WLK4-1000-15<br>30-8000-40SS         | SN11               | 1G Low Pass          | Sep. 16, 2018    | Jul. 27, 2019~<br>Aug. 06, 2019 | Sep. 17, 2019 | Radiation<br>(03CH11-HY) |
| Filter                | Wainwright        | WHKX8-5872.<br>5-6750-18000-<br>40ST | SN3                | 6.75GHz High<br>Pass | Sep. 17, 2018    | Jul. 27, 2019~<br>Aug. 06, 2019 | Sep. 16, 2019 | Radiation<br>(03CH11-HY) |
| AC Power Source       | ChainTek          | APC-1000W                            | N/A                | N/A                  | N/A              | Jul. 29, 2019                   | N/A           | Conduction<br>(CO05-HY)  |
| EMI Test Receiver     | Rohde & Schwarz   | ESR3                                 | 102388             | 9kHz~3.6GHz          | Nov. 12, 2018    | Jul. 29, 2019                   | Nov. 11, 2019 | Conduction<br>(CO05-HY)  |
| LISN                  | Rohde & Schwarz   | ENV216                               | 100080             | 9kHz~30MHz           | Nov. 14, 2018    | Jul. 29, 2019                   | Nov. 13, 2019 | Conduction<br>(CO05-HY)  |
| LISN                  | Rohde & Schwarz   | ENV216                               | 100081             | 9kHz~30MHz           | Nov. 09, 2018    | Jul. 29, 2019                   | Nov. 08, 2019 | Conduction<br>(CO05-HY)  |
| Software              | Rohde & Schwarz   | EMC32 V10.30                         | N/A                | N/A                  | N/A              | Jul. 29, 2019                   | N/A           | Conduction<br>(CO05-HY)  |
| LF Cable              | HUBER +<br>SUHNER | RG-214/U                             | LF01               | N/A                  | Dec. 31, 2018    | Jul. 29, 2019                   | Dec. 30, 2019 | Conduction<br>(CO05-HY)  |
| Pulse Limiter         | Rohde & Schwarz   | ESH3-Z2                              | 100851             | N/A                  | Dec. 31, 2018    | Jul. 29, 2019                   | Dec. 30, 2019 | Conduction<br>(CO05-HY)  |

## 5 Uncertainty of Evaluation

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

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.2 |
|-------------------------------------------------------------------------|-----|

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

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.2 |
|-------------------------------------------------------------------------|-----|

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

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.5 |
|-------------------------------------------------------------------------|-----|

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

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.2 |
|-------------------------------------------------------------------------|-----|

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

|                |                 |                    |       |    |
|----------------|-----------------|--------------------|-------|----|
| Test Engineer: | Hank Hsu        | Temperature:       | 21~25 | °C |
| Test Date:     | 2019/7/26~08/06 | Relative Humidity: | 51~54 | %  |
| TX Tool        | QRCT V4.0-00093 | TX Tool Version    |       |    |

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

| Band I |           |     |     |             |                     |                       |                                    |                                   |  |      |
|--------|-----------|-----|-----|-------------|---------------------|-----------------------|------------------------------------|-----------------------------------|--|------|
| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | 26 dB Bandwidth (MHz) | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) |  | Note |
|        |           |     |     |             | Ant 1               | Ant 1                 | Ant 1                              | Ant 1                             |  |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 16.85               | 25.40                 | -                                  | 22.27                             |  |      |
| 11a    | 6Mbps     | 1   | 44  | 5220        | 16.75               | 25.90                 | -                                  | 22.24                             |  |      |
| 11a    | 6Mbps     | 1   | 48  | 5240        | 16.85               | 25.30                 | -                                  | 22.27                             |  |      |
| VHT20  | MCS0      | 1   | 36  | 5180        | 17.90               | 25.75                 | -                                  | 22.53                             |  |      |
| VHT20  | MCS0      | 1   | 44  | 5220        | 17.95               | 25.40                 | -                                  | 22.54                             |  |      |
| VHT20  | MCS0      | 1   | 48  | 5240        | 17.90               | 25.60                 | -                                  | 22.53                             |  |      |
| VHT40  | MCS0      | 1   | 38  | 5190        | 36.50               | 41.76                 | -                                  | 23.01                             |  |      |
| VHT40  | MCS0      | 1   | 46  | 5230        | 36.60               | 41.76                 | -                                  | 23.01                             |  |      |
| VHT80  | MCS0      | 1   | 42  | 5210        | 76.92               | 84.39                 | -                                  | 23.01                             |  |      |

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

| FCC Band I |           |                 |     |             |                               |     |                                 |          |  |           |
|------------|-----------|-----------------|-----|-------------|-------------------------------|-----|---------------------------------|----------|--|-----------|
| Mod.       | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Average Conducted Power (dBm) |     | FCC Conducted Power Limit (dBm) | DG (dBi) |  | Pass/Fail |
|            |           |                 |     |             | Ant 1                         | SUM |                                 |          |  |           |
| 11a        | 6Mbps     | 1               | 36  | 5180        | 11.70                         |     | 24.00                           | 0.80     |  | Pass      |
| 11a        | 6Mbps     | 1               | 44  | 5220        | 11.80                         |     | 24.00                           | 0.80     |  | Pass      |
| 11a        | 6Mbps     | 1               | 48  | 5240        | 11.80                         |     | 24.00                           | 0.80     |  | Pass      |
| HT20       | MCS0      | 1               | 36  | 5180        | 11.70                         |     | 24.00                           | 0.80     |  | Pass      |
| HT20       | MCS0      | 1               | 44  | 5220        | 11.80                         |     | 24.00                           | 0.80     |  | Pass      |
| HT20       | MCS0      | 1               | 48  | 5240        | 11.80                         |     | 24.00                           | 0.80     |  | Pass      |
| HT40       | MCS0      | 1               | 38  | 5190        | 11.70                         |     | 24.00                           | 0.80     |  | Pass      |
| HT40       | MCS0      | 1               | 46  | 5230        | 11.80                         |     | 24.00                           | 0.80     |  | Pass      |
| VHT20      | MCS0      | 1               | 36  | 5180        | 11.80                         |     | 24.00                           | 0.80     |  | Pass      |
| VHT20      | MCS0      | 1               | 44  | 5220        | 11.90                         |     | 24.00                           | 0.80     |  | Pass      |
| VHT20      | MCS0      | 1               | 48  | 5240        | 11.90                         |     | 24.00                           | 0.80     |  | Pass      |
| VHT40      | MCS0      | 1               | 38  | 5190        | 11.80                         |     | 24.00                           | 0.80     |  | Pass      |
| VHT40      | MCS0      | 1               | 46  | 5230        | 11.90                         |     | 24.00                           | 0.80     |  | Pass      |
| VHT80      | MCS0      | 1               | 42  | 5210        | 11.80                         |     | 24.00                           | 0.80     |  | Pass      |

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

| FCC Band I |           |                 |     |             |                  |                                 |     |                             |          |  |            |
|------------|-----------|-----------------|-----|-------------|------------------|---------------------------------|-----|-----------------------------|----------|--|------------|
| Mod.       | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) | Average Power Density (dBm/MHz) |     | Average PSD Limit (dBm/MHz) | DG (dBi) |  | Pass /Fail |
|            |           |                 |     |             | Ant 1            | Ant 1                           | SUM | Ant 1                       | Ant 1    |  |            |
| 11a        | 6Mbps     | 1               | 36  | 5180        | 0.00             | 3.49                            |     | 11.00                       | 0.80     |  | Pass       |
| 11a        | 6Mbps     | 1               | 44  | 5220        | 0.00             | 3.71                            |     | 11.00                       | 0.80     |  | Pass       |
| 11a        | 6Mbps     | 1               | 48  | 5240        | 0.00             | 3.40                            |     | 11.00                       | 0.80     |  | Pass       |
| VHT20      | MCS0      | 1               | 36  | 5180        | 0.00             | 3.60                            |     | 11.00                       | 0.80     |  | Pass       |
| VHT20      | MCS0      | 1               | 44  | 5220        | 0.00             | 3.43                            |     | 11.00                       | 0.80     |  | Pass       |
| VHT20      | MCS0      | 1               | 48  | 5240        | 0.00             | 3.80                            |     | 11.00                       | 0.80     |  | Pass       |
| VHT40      | MCS0      | 1               | 38  | 5190        | 0.00             | -0.31                           |     | 11.00                       | 0.80     |  | Pass       |
| VHT40      | MCS0      | 1               | 46  | 5230        | 0.00             | 0.22                            |     | 11.00                       | 0.80     |  | Pass       |
| VHT80      | MCS0      | 1               | 42  | 5210        | 0.00             | -2.68                           |     | 11.00                       | 0.80     |  | Pass       |

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

| Band II |           |     |     |             |                     |                       |                                    |                                   |                                      |      |
|---------|-----------|-----|-----|-------------|---------------------|-----------------------|------------------------------------|-----------------------------------|--------------------------------------|------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | 26 dB Bandwidth (MHz) | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) | FCC 26dB Bandwidth Power Limit (dBm) | Note |
|         |           |     |     |             | Ant 1               | Ant 1                 | Ant 1                              | Ant 1                             | Ant 1                                |      |
| 11a     | 6Mbps     | 1   | 52  | 5260        | 16.75               | 24.90                 | 23.24                              | 29.24                             | 23.98                                |      |
| 11a     | 6Mbps     | 1   | 60  | 5300        | 16.80               | 25.75                 | 23.25                              | 29.25                             | 23.98                                |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 16.85               | 25.40                 | 23.27                              | 29.27                             | 23.98                                |      |
| VHT20   | MCS0      | 1   | 52  | 5260        | 17.90               | 25.70                 | 23.53                              | 29.53                             | 23.98                                |      |
| VHT20   | MCS0      | 1   | 60  | 5300        | 17.90               | 25.35                 | 23.53                              | 29.53                             | 23.98                                |      |
| VHT20   | MCS0      | 1   | 64  | 5320        | 17.85               | 25.71                 | 23.52                              | 29.52                             | 23.98                                |      |
| VHT40   | MCS0      | 1   | 54  | 5270        | 36.60               | 41.90                 | 23.98                              | 30.00                             | 23.98                                |      |
| VHT40   | MCS0      | 1   | 62  | 5310        | 36.60               | 41.94                 | 23.98                              | 30.00                             | 23.98                                |      |
| VHT80   | MCS0      | 1   | 58  | 5290        | 76.80               | 84.03                 | 23.98                              | 30.00                             | 23.98                                |      |

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

| FCC Band II |           |     |     |             |                               |     |                                 |          |                        |           |
|-------------|-----------|-----|-----|-------------|-------------------------------|-----|---------------------------------|----------|------------------------|-----------|
| 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                         | SUM | Ant 1                           | Ant 1    |                        |           |
| 11a         | 6Mbps     | 1   | 52  | 5260        | 11.60                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |
| 11a         | 6Mbps     | 1   | 60  | 5300        | 11.80                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |
| 11a         | 6Mbps     | 1   | 64  | 5320        | 11.60                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |
| HT20        | MCS0      | 1   | 52  | 5260        | 11.60                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |
| HT20        | MCS0      | 1   | 60  | 5300        | 11.80                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |
| HT20        | MCS0      | 1   | 64  | 5320        | 11.60                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |
| HT40        | MCS0      | 1   | 54  | 5270        | 11.60                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |
| HT40        | MCS0      | 1   | 62  | 5310        | 11.80                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |
| VHT20       | MCS0      | 1   | 52  | 5260        | 11.70                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |
| VHT20       | MCS0      | 1   | 60  | 5300        | 11.90                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |
| VHT20       | MCS0      | 1   | 64  | 5320        | 11.70                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |
| VHT40       | MCS0      | 1   | 54  | 5270        | 11.70                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |
| VHT40       | MCS0      | 1   | 62  | 5310        | 11.90                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |
| VHT80       | MCS0      | 1   | 58  | 5290        | 11.60                         |     | 23.98                           | 0.80     | 26.9897                | Pass      |

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

| Band II |           |                 |     |             |                  |                                 |     |                             |          |  |            |
|---------|-----------|-----------------|-----|-------------|------------------|---------------------------------|-----|-----------------------------|----------|--|------------|
| Mod.    | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) | Average Power Density (dBm/MHz) |     | Average PSD Limit (dBm/MHz) | DG (dBi) |  | Pass /Fail |
|         |           |                 |     |             | Ant 1            | Ant 1                           | SUM | Ant 1                       | Ant 1    |  |            |
| 11a     | 6Mbps     | 1               | 52  | 5260        | 0.00             | 3.44                            |     | 11.00                       | 0.80     |  | Pass       |
| 11a     | 6Mbps     | 1               | 60  | 5300        | 0.00             | 3.59                            |     | 11.00                       | 0.80     |  | Pass       |
| 11a     | 6Mbps     | 1               | 64  | 5320        | 0.00             | 3.65                            |     | 11.00                       | 0.80     |  | Pass       |
| VHT20   | MCS0      | 1               | 52  | 5260        | 0.00             | 3.28                            |     | 11.00                       | 0.80     |  | Pass       |
| VHT20   | MCS0      | 1               | 60  | 5300        | 0.00             | 3.46                            |     | 11.00                       | 0.80     |  | Pass       |
| VHT20   | MCS0      | 1               | 64  | 5320        | 0.00             | 3.22                            |     | 11.00                       | 0.80     |  | Pass       |
| VHT40   | MCS0      | 1               | 54  | 5270        | 0.00             | -0.24                           |     | 11.00                       | 0.80     |  | Pass       |
| VHT40   | MCS0      | 1               | 62  | 5310        | 0.00             | -0.29                           |     | 11.00                       | 0.80     |  | Pass       |
| VHT80   | MCS0      | 1               | 58  | 5290        | 0.00             | -2.57                           |     | 11.00                       | 0.80     |  | Pass       |

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

| Band III |           |     |     |             |                                 |                                   |                                    |                                   |                                      |                                           |
|----------|-----------|-----|-----|-------------|---------------------------------|-----------------------------------|------------------------------------|-----------------------------------|--------------------------------------|-------------------------------------------|
| Mod.     | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth In U-NII 2C (MHz) | 26 dB Bandwidth In U-NII 2C (MHz) | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) | FCC 26dB Bandwidth Power Limit (dBm) | 6 dB Bandwidth for Straddle Channel (MHz) |
|          |           |     |     |             | Ant 1                           | Ant 1                             | Ant 1                              | Ant 1                             | Ant 1                                | Ant 1                                     |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 16.75                           | 25.00                             | 23.24                              | 29.24                             | 23.98                                | ----                                      |
| 11a      | 6Mbps     | 1   | 116 | 5580        | 16.75                           | 25.25                             | 23.24                              | 29.24                             | 23.98                                | ----                                      |
| 11a      | 6Mbps     | 1   | 140 | 5700        | 16.80                           | 25.20                             | 23.25                              | 29.25                             | 23.98                                | ----                                      |
| VHT20    | MCS0      | 1   | 100 | 5500        | 17.90                           | 25.55                             | 23.53                              | 29.53                             | 23.98                                | ----                                      |
| VHT20    | MCS0      | 1   | 116 | 5580        | 17.85                           | 25.41                             | 23.52                              | 29.52                             | 23.98                                | ----                                      |
| VHT20    | MCS0      | 1   | 140 | 5700        | 17.90                           | 26.40                             | 23.53                              | 29.53                             | 23.98                                | ----                                      |
| VHT40    | MCS0      | 1   | 102 | 5510        | 36.60                           | 41.76                             | 23.98                              | 30.00                             | 23.98                                | ----                                      |
| VHT40    | MCS0      | 1   | 110 | 5550        | 36.50                           | 41.76                             | 23.98                              | 30.00                             | 23.98                                | ----                                      |
| VHT40    | MCS0      | 1   | 134 | 5670        | 36.60                           | 41.96                             | 23.98                              | 30.00                             | 23.98                                | ----                                      |
| VHT80    | MCS0      | 1   | 106 | 5530        | 76.68                           | 83.84                             | 23.98                              | 30.00                             | 23.98                                | ----                                      |

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

| FCC Band III |           |                 |     |             |                               |     |                                 |          |                        |           |
|--------------|-----------|-----------------|-----|-------------|-------------------------------|-----|---------------------------------|----------|------------------------|-----------|
| Mod.         | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Average Conducted Power (dBm) |     | FCC Conducted Power Limit (dBm) | DG (dBi) | EIRP Power Limit (dBm) | Pass/Fail |
|              |           |                 |     |             | Ant 1                         | SUM |                                 |          |                        |           |
| 11a          | 6Mbps     | 1               | 100 | 5500        | 11.70                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| 11a          | 6Mbps     | 1               | 116 | 5580        | 11.80                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| 11a          | 6Mbps     | 1               | 140 | 5700        | 11.80                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| HT20         | MCS0      | 1               | 100 | 5500        | 11.70                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| HT20         | MCS0      | 1               | 116 | 5580        | 11.80                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| HT20         | MCS0      | 1               | 140 | 5700        | 11.80                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| HT40         | MCS0      | 1               | 102 | 5510        | 11.60                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| HT40         | MCS0      | 1               | 110 | 5550        | 11.50                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| HT40         | MCS0      | 1               | 134 | 5670        | 11.80                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| VHT20        | MCS0      | 1               | 100 | 5500        | 11.80                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| VHT20        | MCS0      | 1               | 116 | 5580        | 11.90                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| VHT20        | MCS0      | 1               | 140 | 5700        | 11.90                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| VHT40        | MCS0      | 1               | 102 | 5510        | 11.70                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| VHT40        | MCS0      | 1               | 110 | 5550        | 11.60                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| VHT40        | MCS0      | 1               | 134 | 5670        | 11.90                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |
| VHT80        | MCS0      | 1               | 106 | 5530        | 11.90                         |     | 23.98                           | -0.70    | 26.99                  | Pass      |

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

| Band III |           |                 |     |             |                  |                                 |     |                             |       |          |            |
|----------|-----------|-----------------|-----|-------------|------------------|---------------------------------|-----|-----------------------------|-------|----------|------------|
| Mod.     | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) | Average Power Density (dBm/MHz) |     | Average PSD Limit (dBm/MHz) |       | DG (dBi) | Pass /Fail |
|          |           |                 |     |             | Ant 1            | Ant 1                           | SUM | Ant 1                       | Ant 1 |          |            |
| 11a      | 6Mbps     | 1               | 100 | 5500        | 0.00             | 3.13                            |     | 11.00                       | -0.70 |          | Pass       |
| 11a      | 6Mbps     | 1               | 116 | 5580        | 0.00             | 3.56                            |     | 11.00                       | -0.70 |          | Pass       |
| 11a      | 6Mbps     | 1               | 140 | 5700        | 0.00             | 3.31                            |     | 11.00                       | -0.70 |          | Pass       |
| VHT20    | MCS0      | 1               | 100 | 5500        | 0.00             | 3.27                            |     | 11.00                       | -0.70 |          | Pass       |
| VHT20    | MCS0      | 1               | 116 | 5580        | 0.00             | 3.41                            |     | 11.00                       | -0.70 |          | Pass       |
| VHT20    | MCS0      | 1               | 140 | 5700        | 0.00             | 3.20                            |     | 11.00                       | -0.70 |          | Pass       |
| VHT40    | MCS0      | 1               | 102 | 5510        | 0.00             | -0.41                           |     | 11.00                       | -0.70 |          | Pass       |
| VHT40    | MCS0      | 1               | 110 | 5550        | 0.00             | -0.32                           |     | 11.00                       | -0.70 |          | Pass       |
| VHT40    | MCS0      | 1               | 134 | 5670        | 0.00             | -0.24                           |     | 11.00                       | -0.70 |          | Pass       |
| VHT80    | MCS0      | 1               | 106 | 5530        | 0.00             | -2.19                           |     | 11.00                       | -0.70 |          | Pass       |



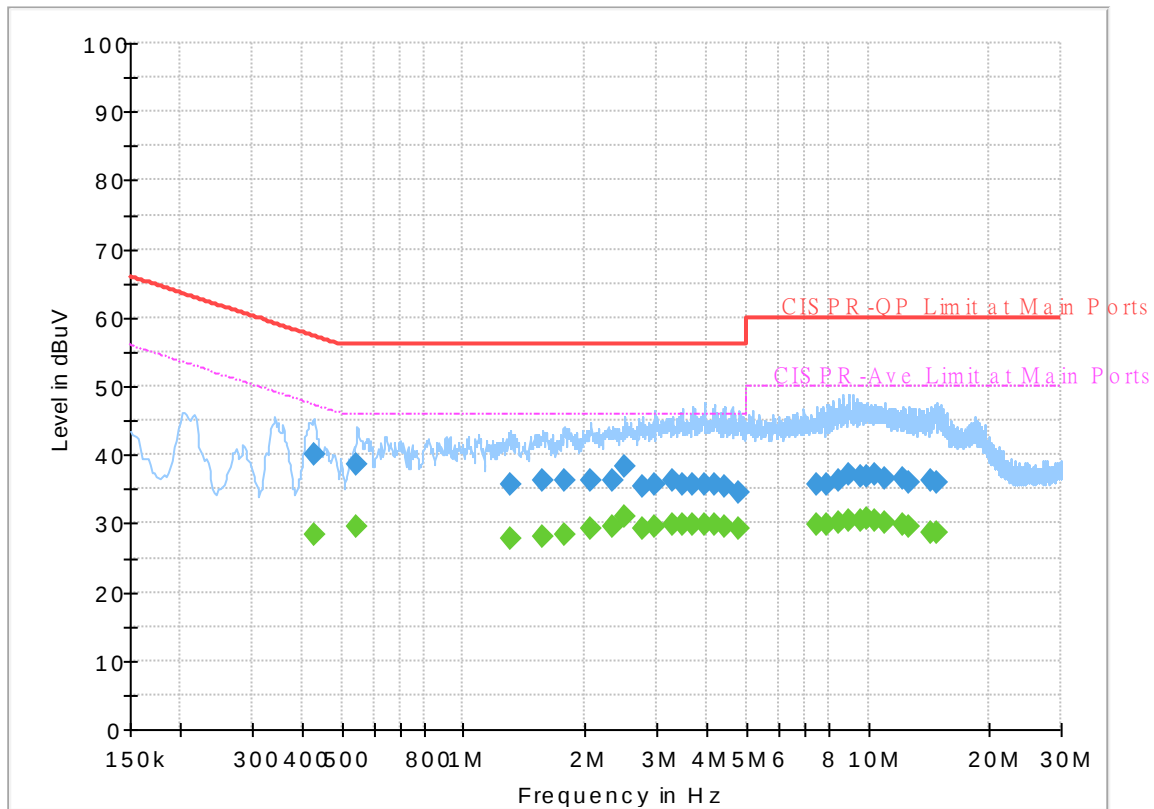
## **Appendix B. AC Conducted Emission Test Results**

|                        |             |                            |        |
|------------------------|-------------|----------------------------|--------|
| <b>Test Engineer :</b> | Jimmy Chang | <b>Temperature :</b>       | 25~27℃ |
|                        |             | <b>Relative Humidity :</b> | 58~60% |

## EUT Information

Report NO : 971613  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



## Final\_Result

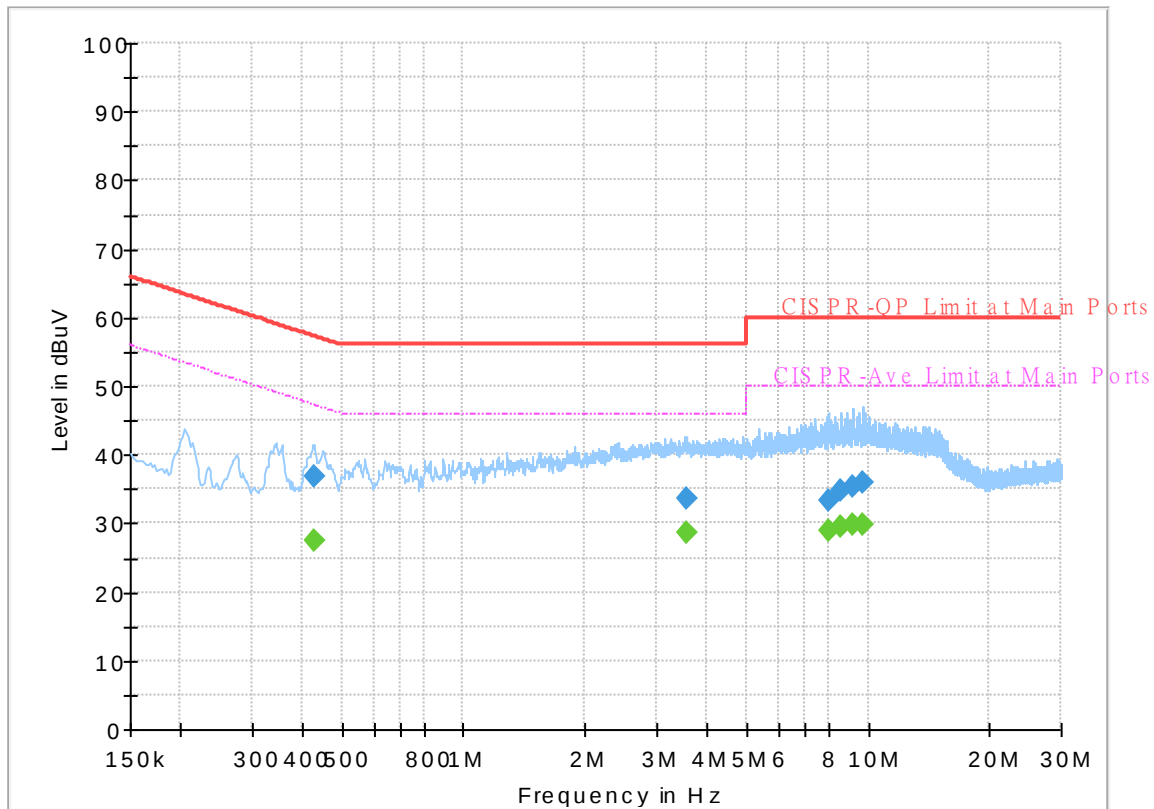
| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.426750        | ---              | 28.39           | 47.32        | 18.93       | L1   | OFF    | 19.4       |
| 0.426750        | 40.02            | ---             | 57.32        | 17.30       | L1   | OFF    | 19.4       |
| 0.546000        | ---              | 29.51           | 46.00        | 16.49       | L1   | OFF    | 19.4       |
| 0.546000        | 38.51            | ---             | 56.00        | 17.49       | L1   | OFF    | 19.4       |
| 1.302000        | ---              | 27.91           | 46.00        | 18.09       | L1   | OFF    | 19.5       |
| 1.302000        | 35.66            | ---             | 56.00        | 20.34       | L1   | OFF    | 19.5       |
| 1.563000        | ---              | 27.93           | 46.00        | 18.07       | L1   | OFF    | 19.5       |
| 1.563000        | 36.17            | ---             | 56.00        | 19.83       | L1   | OFF    | 19.5       |
| 1.770000        | ---              | 28.39           | 46.00        | 17.61       | L1   | OFF    | 19.5       |
| 1.770000        | 36.18            | ---             | 56.00        | 19.82       | L1   | OFF    | 19.5       |
| 2.069250        | ---              | 29.33           | 46.00        | 16.67       | L1   | OFF    | 19.5       |
| 2.069250        | 36.24            | ---             | 56.00        | 19.76       | L1   | OFF    | 19.5       |
| 2.334750        | ---              | 29.63           | 46.00        | 16.37       | L1   | OFF    | 19.5       |
| 2.334750        | 36.30            | ---             | 56.00        | 19.70       | L1   | OFF    | 19.5       |
| 2.499000        | ---              | 30.93           | 46.00        | 15.07       | L1   | OFF    | 19.5       |
| 2.499000        | 38.32            | ---             | 56.00        | 17.68       | L1   | OFF    | 19.5       |
| 2.771250        | ---              | 29.28           | 46.00        | 16.72       | L1   | OFF    | 19.5       |
| 2.771250        | 35.23            | ---             | 56.00        | 20.77       | L1   | OFF    | 19.5       |
| 2.978250        | ---              | 29.64           | 46.00        | 16.36       | L1   | OFF    | 19.5       |
| 2.978250        | 35.61            | ---             | 56.00        | 20.39       | L1   | OFF    | 19.5       |
| 3.279750        | ---              | 29.86           | 46.00        | 16.14       | L1   | OFF    | 19.6       |

|           |       |       |       |       |    |     |      |
|-----------|-------|-------|-------|-------|----|-----|------|
| 3.279750  | 36.20 | ---   | 56.00 | 19.80 | L1 | OFF | 19.6 |
| 3.466500  | ---   | 29.83 | 46.00 | 16.17 | L1 | OFF | 19.6 |
| 3.466500  | 35.79 | ---   | 56.00 | 20.21 | L1 | OFF | 19.6 |
| 3.678000  | ---   | 29.72 | 46.00 | 16.28 | L1 | OFF | 19.6 |
| 3.678000  | 35.82 | ---   | 56.00 | 20.18 | L1 | OFF | 19.6 |
| 3.952500  | ---   | 29.71 | 46.00 | 16.29 | L1 | OFF | 19.6 |
| 3.952500  | 35.60 | ---   | 56.00 | 20.40 | L1 | OFF | 19.6 |
| 4.159500  | ---   | 29.69 | 46.00 | 16.31 | L1 | OFF | 19.6 |
| 4.159500  | 35.68 | ---   | 56.00 | 20.32 | L1 | OFF | 19.6 |
| 4.434000  | ---   | 29.49 | 46.00 | 16.51 | L1 | OFF | 19.6 |
| 4.434000  | 35.32 | ---   | 56.00 | 20.68 | L1 | OFF | 19.6 |
| 4.816500  | ---   | 29.10 | 46.00 | 16.90 | L1 | OFF | 19.6 |
| 4.816500  | 34.62 | ---   | 56.00 | 21.38 | L1 | OFF | 19.6 |
| 7.464750  | ---   | 29.77 | 50.00 | 20.23 | L1 | OFF | 19.7 |
| 7.464750  | 35.58 | ---   | 60.00 | 24.42 | L1 | OFF | 19.7 |
| 7.946250  | ---   | 29.92 | 50.00 | 20.08 | L1 | OFF | 19.7 |
| 7.946250  | 35.63 | ---   | 60.00 | 24.37 | L1 | OFF | 19.7 |
| 8.436750  | ---   | 30.16 | 50.00 | 19.84 | L1 | OFF | 19.8 |
| 8.436750  | 36.12 | ---   | 60.00 | 23.88 | L1 | OFF | 19.8 |
| 8.925000  | ---   | 30.51 | 50.00 | 19.49 | L1 | OFF | 19.8 |
| 8.925000  | 37.21 | ---   | 60.00 | 22.79 | L1 | OFF | 19.8 |
| 9.624750  | ---   | 30.50 | 50.00 | 19.50 | L1 | OFF | 19.8 |
| 9.624750  | 36.70 | ---   | 60.00 | 23.30 | L1 | OFF | 19.8 |
| 9.969000  | ---   | 30.57 | 50.00 | 19.43 | L1 | OFF | 19.8 |
| 9.969000  | 36.83 | ---   | 60.00 | 23.17 | L1 | OFF | 19.8 |
| 10.443750 | ---   | 30.47 | 50.00 | 19.53 | L1 | OFF | 19.8 |
| 10.443750 | 37.01 | ---   | 60.00 | 22.99 | L1 | OFF | 19.8 |
| 11.064750 | ---   | 30.25 | 50.00 | 19.75 | L1 | OFF | 19.9 |
| 11.064750 | 36.66 | ---   | 60.00 | 23.34 | L1 | OFF | 19.9 |
| 12.142500 | ---   | 29.94 | 50.00 | 20.06 | L1 | OFF | 19.9 |
| 12.142500 | 36.59 | ---   | 60.00 | 23.41 | L1 | OFF | 19.9 |
| 12.565500 | ---   | 29.49 | 50.00 | 20.51 | L1 | OFF | 19.9 |
| 12.565500 | 35.91 | ---   | 60.00 | 24.09 | L1 | OFF | 19.9 |
| 14.268750 | ---   | 28.79 | 50.00 | 21.21 | L1 | OFF | 20.0 |
| 14.268750 | 36.14 | ---   | 60.00 | 23.86 | L1 | OFF | 20.0 |
| 14.829000 | ---   | 28.69 | 50.00 | 21.31 | L1 | OFF | 20.0 |
| 14.829000 | 36.02 | ---   | 60.00 | 23.98 | L1 | OFF | 20.0 |

## EUT Information

Report NO : 971613  
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) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.426750        | ---              | 27.57           | 47.32        | 19.75       | N    | OFF    | 19.5       |
| 0.426750        | 36.84            | ---             | 57.32        | 20.48       | N    | OFF    | 19.5       |
| 3.543000        | ---              | 28.56           | 46.00        | 17.44       | N    | OFF    | 19.6       |
| 3.543000        | 33.62            | ---             | 56.00        | 22.38       | N    | OFF    | 19.6       |
| 7.955250        | ---              | 28.83           | 50.00        | 21.17       | N    | OFF    | 19.8       |
| 7.955250        | 33.33            | ---             | 60.00        | 26.67       | N    | OFF    | 19.8       |
| 8.540250        | ---              | 29.58           | 50.00        | 20.42       | N    | OFF    | 19.8       |
| 8.540250        | 34.94            | ---             | 60.00        | 25.06       | N    | OFF    | 19.8       |
| 9.213000        | ---              | 29.83           | 50.00        | 20.17       | N    | OFF    | 19.8       |
| 9.213000        | 35.26            | ---             | 60.00        | 24.74       | N    | OFF    | 19.8       |
| 9.748500        | ---              | 29.85           | 50.00        | 20.15       | N    | OFF    | 19.9       |
| 9.748500        | 35.83            | ---             | 60.00        | 24.17       | N    | OFF    | 19.9       |



## Appendix C. Radiated Spurious Emission

|                 |                                |                     |            |
|-----------------|--------------------------------|---------------------|------------|
| Test Engineer : | Bill Kuo, Fu Chen, Troye Hsieh | Temperature :       | 21.6~26°C  |
|                 |                                | Relative Humidity : | 54.6~66.3% |

### Band 1 - 5150~5250MHz

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

| WIFI Ant. 1                 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( 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 36<br>5180MHz |      | 5138.58           | 52.62            | -21.38            | 74                    | 43.84               | 31.88                   | 10.02            | 33.12                | 100            | 58                | P                 | H            |
|                             |      | 5147.94           | 41.81            | -12.19            | 54                    | 33                  | 31.9                    | 10.03            | 33.12                | 100            | 58                | A                 | H            |
|                             | *    | 5180              | 99.83            | -                 | -                     | 91.16               | 31.72                   | 10.07            | 33.12                | 100            | 58                | P                 | H            |
|                             | *    | 5180              | 92.4             | -                 | -                     | 83.73               | 31.72                   | 10.07            | 33.12                | 100            | 58                | A                 | H            |
|                             |      | 5145.34           | 51.64            | -22.36            | 74                    | 42.84               | 31.89                   | 10.03            | 33.12                | 354            | 107               | P                 | V            |
|                             |      | 5146.9            | 41.81            | -12.19            | 54                    | 33.01               | 31.89                   | 10.03            | 33.12                | 354            | 107               | A                 | V            |
|                             | *    | 5180              | 101.18           | -                 | -                     | 92.51               | 31.72                   | 10.07            | 33.12                | 354            | 107               | P                 | V            |
|                             | *    | 5180              | 93.79            | -                 | -                     | 85.12               | 31.72                   | 10.07            | 33.12                | 354            | 107               | A                 | V            |
| 802.11a<br>CH 44<br>5220MHz |      | 5091.78           | 51.79            | -22.21            | 74                    | 43.17               | 31.77                   | 9.97             | 33.12                | 100            | 58                | P                 | H            |
|                             |      | 5104.26           | 41.39            | -12.61            | 54                    | 32.72               | 31.81                   | 9.98             | 33.12                | 100            | 58                | A                 | H            |
|                             | *    | 5220              | 100.09           | -                 | -                     | 91.59               | 31.52                   | 10.1             | 33.12                | 100            | 58                | P                 | H            |
|                             | *    | 5220              | 92.39            | -                 | -                     | 83.89               | 31.52                   | 10.1             | 33.12                | 100            | 58                | A                 | H            |
|                             |      | 5438.95           | 50               | -24               | 74                    | 41.22               | 31.68                   | 10.21            | 33.11                | 100            | 58                | P                 | H            |
|                             |      | 5454.61           | 40.04            | -13.96            | 54                    | 31.2                | 31.72                   | 10.23            | 33.11                | 100            | 58                | A                 | H            |
|                             |      | 5080.6            | 52.02            | -21.98            | 74                    | 43.46               | 31.72                   | 9.96             | 33.12                | 348            | 108               | P                 | V            |
|                             |      | 5121.94           | 41.34            | -12.66            | 54                    | 32.62               | 31.84                   | 10               | 33.12                | 348            | 108               | A                 | V            |
|                             | *    | 5220              | 101.67           | -                 | -                     | 93.17               | 31.52                   | 10.1             | 33.12                | 348            | 108               | P                 | V            |
|                             | *    | 5220              | 94.25            | -                 | -                     | 85.75               | 31.52                   | 10.1             | 33.12                | 348            | 108               | A                 | V            |
|                             |      | 5423.83           | 50.38            | -23.62            | 74                    | 41.65               | 31.65                   | 10.19            | 33.11                | 348            | 108               | P                 | V            |
|                             |      | 5458.39           | 39.92            | -14.08            | 54                    | 31.06               | 31.73                   | 10.24            | 33.11                | 348            | 108               | A                 | V            |



|                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5122.2  | 51.58  | -22.42 | 74 | 42.86 | 31.84 | 10    | 33.12 | 102 | 58  | P | H |
|                                                  |                                                                                             | 5092.3  | 41.4   | -12.6  | 54 | 32.78 | 31.77 | 9.97  | 33.12 | 102 | 58  | A | H |
|                                                  | *                                                                                           | 5240    | 99.87  | -      | -  | 91.45 | 31.44 | 10.1  | 33.12 | 102 | 58  | P | H |
|                                                  | *                                                                                           | 5240    | 92.3   | -      | -  | 83.88 | 31.44 | 10.1  | 33.12 | 102 | 58  | A | H |
|                                                  |                                                                                             | 5427.88 | 49.53  | -24.47 | 74 | 40.79 | 31.66 | 10.19 | 33.11 | 102 | 58  | P | H |
|                                                  |                                                                                             | 5457.31 | 40.12  | -13.88 | 54 | 31.26 | 31.73 | 10.24 | 33.11 | 102 | 58  | A | H |
|                                                  |                                                                                             | 5050.7  | 50.83  | -23.17 | 74 | 42.42 | 31.6  | 9.93  | 33.12 | 348 | 110 | P | V |
|                                                  |                                                                                             | 5087.62 | 41.31  | -12.69 | 54 | 32.71 | 31.75 | 9.97  | 33.12 | 348 | 110 | A | V |
|                                                  | *                                                                                           | 5240    | 102.07 | -      | -  | 93.65 | 31.44 | 10.1  | 33.12 | 348 | 110 | P | V |
|                                                  | *                                                                                           | 5240    | 94.66  | -      | -  | 86.24 | 31.44 | 10.1  | 33.12 | 348 | 110 | A | V |
|                                                  |                                                                                             | 5387.65 | 49.96  | -24.04 | 74 | 41.39 | 31.53 | 10.15 | 33.11 | 348 | 110 | P | V |
|                                                  |                                                                                             | 5445.7  | 40.13  | -13.87 | 54 | 31.33 | 31.69 | 10.22 | 33.11 | 348 | 110 | A | V |
| Remark                                           | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



**Band 1 5150~5250MHz**

**WIFI 802.11a (Harmonic @ 3m)**

| WIFI Ant.                            | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|--------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|-------|
| 1                                    |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| <b>802.11a<br/>CH 36<br/>5180MHz</b> |                                                                                             | 10360     | 46.27      | -21.93     | 68.2       | 47.56      | 39.54          | 16.12     | 56.95         | 100     | 0         | P         | H     |
|                                      |                                                                                             | 15540     | 45.47      | -28.53     | 74         | 43.27      | 38.3           | 20.56     | 56.66         | 100     | 0         | P         | H     |
|                                      |                                                                                             | 10360     | 46.6       | -21.6      | 68.2       | 47.89      | 39.54          | 16.12     | 56.95         | 100     | 0         | P         | V     |
|                                      |                                                                                             | 15540     | 44.73      | -29.27     | 74         | 42.53      | 38.3           | 20.56     | 56.66         | 100     | 0         | P         | V     |
| <b>802.11a<br/>CH 44<br/>5220MHz</b> |                                                                                             | 10440     | 46.09      | -22.11     | 68.2       | 47.15      | 39.7           | 16.17     | 56.93         | 100     | 0         | P         | H     |
|                                      |                                                                                             | 15660     | 45.24      | -28.76     | 74         | 43.52      | 37.7           | 20.53     | 56.51         | 100     | 0         | P         | H     |
|                                      |                                                                                             | 10440     | 46.46      | -21.74     | 68.2       | 47.52      | 39.7           | 16.17     | 56.93         | 100     | 0         | P         | V     |
|                                      |                                                                                             | 15660     | 45.86      | -28.14     | 74         | 44.14      | 37.7           | 20.53     | 56.51         | 100     | 0         | P         | V     |
| <b>802.11a<br/>CH 48<br/>5240MHz</b> |                                                                                             | 10480     | 45.39      | -22.81     | 68.2       | 46.4       | 39.7           | 16.2      | 56.91         | 100     | 0         | P         | H     |
|                                      |                                                                                             | 15720     | 45.46      | -28.54     | 74         | 43.85      | 37.52          | 20.52     | 56.43         | 100     | 0         | P         | H     |
|                                      |                                                                                             | 10480     | 45.88      | -22.32     | 68.2       | 46.89      | 39.7           | 16.2      | 56.91         | 100     | 0         | P         | V     |
|                                      |                                                                                             | 15720     | 45.62      | -28.38     | 74         | 44.01      | 37.52          | 20.52     | 56.43         | 100     | 0         | P         | 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 (Band Edge @ 3m)**

| WIFI Ant.                                       | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|-------------------------------------------------|------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|-------|
| 1                                               |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| <b>802.11ac<br/>VHT20<br/>CH 36<br/>5180MHz</b> |      | 5118.04   | 51.8       | -22.2      | 74         | 43.08      | 31.84          | 10        | 33.12         | 100     | 57        | P         | H     |
|                                                 |      | 5149.24   | 41.68      | -12.32     | 54         | 32.87      | 31.9           | 10.03     | 33.12         | 100     | 57        | A         | H     |
|                                                 | *    | 5180      | 99.27      | -          | -          | 90.6       | 31.72          | 10.07     | 33.12         | 100     | 57        | P         | H     |
|                                                 | *    | 5180      | 91.62      | -          | -          | 82.95      | 31.72          | 10.07     | 33.12         | 100     | 57        | A         | H     |
|                                                 |      | 5121.68   | 51.12      | -22.88     | 74         | 42.4       | 31.84          | 10        | 33.12         | 356     | 110       | P         | V     |
|                                                 |      | 5149.76   | 41.72      | -12.28     | 54         | 32.91      | 31.9           | 10.03     | 33.12         | 356     | 110       | A         | V     |
|                                                 | *    | 5180      | 100.35     | -          | -          | 91.68      | 31.72          | 10.07     | 33.12         | 356     | 110       | P         | V     |
|                                                 | *    | 5180      | 92.88      | -          | -          | 84.21      | 31.72          | 10.07     | 33.12         | 356     | 110       | A         | V     |
| <b>802.11ac<br/>VHT20<br/>CH 44<br/>5220MHz</b> |      | 5078.78   | 52.66      | -21.34     | 74         | 44.1       | 31.72          | 9.96      | 33.12         | 100     | 53        | P         | H     |
|                                                 |      | 5056.68   | 41.35      | -12.65     | 54         | 32.91      | 31.63          | 9.93      | 33.12         | 100     | 53        | A         | H     |
|                                                 | *    | 5220      | 99.81      | -          | -          | 91.31      | 31.52          | 10.1      | 33.12         | 100     | 53        | P         | H     |
|                                                 | *    | 5220      | 91.83      | -          | -          | 83.33      | 31.52          | 10.1      | 33.12         | 100     | 53        | A         | H     |
|                                                 |      | 5441.38   | 48.9       | -25.1      | 74         | 40.12      | 31.68          | 10.21     | 33.11         | 100     | 53        | P         | H     |
|                                                 |      | 5458.12   | 40.31      | -13.69     | 54         | 31.45      | 31.73          | 10.24     | 33.11         | 100     | 53        | A         | H     |
|                                                 |      | 5070.2    | 50.42      | -23.58     | 74         | 41.91      | 31.68          | 9.95      | 33.12         | 348     | 109       | P         | V     |
|                                                 |      | 5089.44   | 41.26      | -12.74     | 54         | 32.65      | 31.76          | 9.97      | 33.12         | 348     | 109       | A         | V     |
|                                                 | *    | 5220      | 101.69     | -          | -          | 93.19      | 31.52          | 10.1      | 33.12         | 348     | 109       | P         | V     |
|                                                 | *    | 5220      | 94.2       | -          | -          | 85.7       | 31.52          | 10.1      | 33.12         | 348     | 109       | A         | V     |
|                                                 |      | 5426.53   | 48.3       | -25.7      | 74         | 39.57      | 31.65          | 10.19     | 33.11         | 348     | 109       | P         | V     |
|                                                 |      | 5459.2    | 40.28      | -13.72     | 54         | 31.41      | 31.74          | 10.24     | 33.11         | 348     | 109       | A         | V     |



|                                                                               |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><br><b>VHT20</b><br><br><b>CH 48</b><br><br><b>5240MHz</b> |                                                                                             | 5091.78 | 51.81  | -22.19 | 74 | 43.19 | 31.77 | 9.97  | 33.12 | 100 | 57  | P | H |
|                                                                               |                                                                                             | 5062.66 | 41.2   | -12.8  | 54 | 32.73 | 31.65 | 9.94  | 33.12 | 100 | 57  | A | H |
|                                                                               | *                                                                                           | 5240    | 100.14 | -      | -  | 91.72 | 31.44 | 10.1  | 33.12 | 100 | 57  | P | H |
|                                                                               | *                                                                                           | 5240    | 92.44  | -      | -  | 84.02 | 31.44 | 10.1  | 33.12 | 100 | 57  | A | H |
|                                                                               |                                                                                             | 5427.88 | 48.97  | -25.03 | 74 | 40.23 | 31.66 | 10.19 | 33.11 | 100 | 57  | P | H |
|                                                                               |                                                                                             | 5440.57 | 40.28  | -13.72 | 54 | 31.5  | 31.68 | 10.21 | 33.11 | 100 | 57  | A | H |
|                                                                               |                                                                                             | 5080.08 | 50.48  | -23.52 | 74 | 41.92 | 31.72 | 9.96  | 33.12 | 327 | 109 | P | V |
|                                                                               |                                                                                             | 5106.08 | 41.26  | -12.74 | 54 | 32.58 | 31.81 | 9.99  | 33.12 | 327 | 109 | A | V |
|                                                                               | *                                                                                           | 5240    | 101.64 | -      | -  | 93.22 | 31.44 | 10.1  | 33.12 | 327 | 109 | P | V |
|                                                                               | *                                                                                           | 5240    | 94.18  | -      | -  | 85.76 | 31.44 | 10.1  | 33.12 | 327 | 109 | A | V |
|                                                                               |                                                                                             | 5417.08 | 48.59  | -25.41 | 74 | 39.89 | 31.63 | 10.18 | 33.11 | 327 | 109 | P | V |
|                                                                               |                                                                                             | 5445.43 | 40.35  | -13.65 | 54 | 31.55 | 31.69 | 10.22 | 33.11 | 327 | 109 | 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 VHT20 (Harmonic @ 3m)**

| WIFI Ant. | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preampl Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|-----------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|----------------|---------|-----------|-----------|-------|
| 1         |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )    | ( dB )         | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| 802.11ac  |                                                                                             | 10360     | 46.97      | -21.23     | 68.2       | 48.26      | 39.54          | 16.12     | 56.95          | 100     | 0         | P         | H     |
| VHT20     |                                                                                             | 15540     | 45.3       | -28.7      | 74         | 43.1       | 38.3           | 20.56     | 56.66          | 100     | 0         | P         | H     |
| CH 36     |                                                                                             | 10360     | 47.04      | -21.16     | 68.2       | 48.33      | 39.54          | 16.12     | 56.95          | 100     | 0         | P         | V     |
| 5180MHz   |                                                                                             | 15540     | 45.38      | -28.62     | 74         | 43.18      | 38.3           | 20.56     | 56.66          | 100     | 0         | P         | V     |
| 802.11ac  |                                                                                             | 10440     | 47.12      | -21.08     | 68.2       | 48.18      | 39.7           | 16.17     | 56.93          | 100     | 0         | P         | H     |
| VHT20     |                                                                                             | 15660     | 44.81      | -29.19     | 74         | 43.09      | 37.7           | 20.53     | 56.51          | 100     | 0         | P         | H     |
| CH 44     |                                                                                             | 10440     | 47.32      | -20.88     | 68.2       | 48.38      | 39.7           | 16.17     | 56.93          | 100     | 0         | P         | V     |
| 5220MHz   |                                                                                             | 15660     | 44.92      | -29.08     | 74         | 43.2       | 37.7           | 20.53     | 56.51          | 100     | 0         | P         | V     |
| 802.11ac  |                                                                                             | 10480     | 46.94      | -21.26     | 68.2       | 47.95      | 39.7           | 16.2      | 56.91          | 100     | 0         | P         | H     |
| VHT20     |                                                                                             | 15720     | 45.73      | -28.27     | 74         | 44.12      | 37.52          | 20.52     | 56.43          | 100     | 0         | P         | H     |
| CH 48     |                                                                                             | 10480     | 46.72      | -21.48     | 68.2       | 47.73      | 39.7           | 16.2      | 56.91          | 100     | 0         | P         | V     |
| 5240MHz   |                                                                                             | 15720     | 45.5       | -28.5      | 74         | 43.89      | 37.52          | 20.52     | 56.43          | 100     | 0         | P         | V     |
| Remark    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |            |            |            |                |           |                |         |           |           |       |



**Band 1 5150~5250MHz**

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

| WIFI Ant.                             | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|---------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| 1                                     |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11ac<br>VHT40<br>CH 38<br>5190MHz |                                                                                             | 5147.16   | 55.77      | -18.23     | 74         | 46.97      | 31.89          | 10.03     | 33.12         | 100     | 61        | P         | H       |
|                                       |                                                                                             | 5149.76   | 49.46      | -4.54      | 54         | 40.65      | 31.9           | 10.03     | 33.12         | 100     | 61        | A         | H       |
|                                       | *                                                                                           | 5190      | 97.39      | -          | -          | 88.77      | 31.66          | 10.08     | 33.12         | 100     | 61        | P         | H       |
|                                       | *                                                                                           | 5190      | 89.45      | -          | -          | 80.83      | 31.66          | 10.08     | 33.12         | 100     | 61        | A         | H       |
|                                       |                                                                                             | 5371.8    | 48.35      | -25.65     | 74         | 39.89      | 31.43          | 10.14     | 33.11         | 100     | 61        | P         | H       |
|                                       |                                                                                             | 5458.04   | 40.48      | -13.52     | 54         | 31.62      | 31.73          | 10.24     | 33.11         | 100     | 61        | A         | H       |
|                                       |                                                                                             | 5150      | 54.29      | -19.71     | 74         | 45.48      | 31.9           | 10.03     | 33.12         | 398     | 110       | P         | V       |
|                                       |                                                                                             | 5150      | 48.21      | -5.79      | 54         | 39.4       | 31.9           | 10.03     | 33.12         | 398     | 110       | A         | V       |
|                                       | *                                                                                           | 5190      | 98.61      | -          | -          | 89.99      | 31.66          | 10.08     | 33.12         | 398     | 110       | P         | V       |
|                                       | *                                                                                           | 5190      | 90.52      | -          | -          | 81.9       | 31.66          | 10.08     | 33.12         | 398     | 110       | A         | V       |
|                                       |                                                                                             | 5444.04   | 48.3       | -25.7      | 74         | 39.5       | 31.69          | 10.22     | 33.11         | 398     | 110       | P         | V       |
|                                       |                                                                                             | 5436.76   | 40.5       | -13.5      | 54         | 31.73      | 31.67          | 10.21     | 33.11         | 398     | 110       | A         | V       |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz |                                                                                             | 5031.72   | 50.63      | -23.37     | 74         | 42.32      | 31.53          | 9.9       | 33.12         | 100     | 56        | P         | H       |
|                                       |                                                                                             | 5103.74   | 42.28      | -11.72     | 54         | 33.61      | 31.81          | 9.98      | 33.12         | 100     | 56        | A         | H       |
|                                       | *                                                                                           | 5230      | 99.04      | -          | -          | 90.58      | 31.48          | 10.1      | 33.12         | 100     | 56        | P         | H       |
|                                       | *                                                                                           | 5230      | 91.05      | -          | -          | 82.59      | 31.48          | 10.1      | 33.12         | 100     | 56        | A         | H       |
|                                       |                                                                                             | 5422.48   | 48.19      | -25.81     | 74         | 39.48      | 31.64          | 10.18     | 33.11         | 100     | 56        | P         | H       |
|                                       |                                                                                             | 5425      | 40.76      | -13.24     | 54         | 32.03      | 31.65          | 10.19     | 33.11         | 100     | 56        | A         | H       |
|                                       |                                                                                             | 5004.68   | 49.91      | -24.09     | 74         | 41.73      | 31.42          | 9.88      | 33.12         | 349     | 108       | P         | V       |
|                                       |                                                                                             | 5141.7    | 42.05      | -11.95     | 54         | 33.26      | 31.88          | 10.03     | 33.12         | 349     | 108       | A         | V       |
|                                       | *                                                                                           | 5230      | 99.25      | -          | -          | 90.79      | 31.48          | 10.1      | 33.12         | 349     | 108       | P         | V       |
|                                       | *                                                                                           | 5230      | 91.06      | -          | -          | 82.6       | 31.48          | 10.1      | 33.12         | 349     | 108       | A         | V       |
|                                       |                                                                                             | 5452.72   | 48.8       | -25.2      | 74         | 39.97      | 31.71          | 10.23     | 33.11         | 349     | 108       | P         | V       |
|                                       |                                                                                             | 5457.76   | 40.97      | -13.03     | 54         | 32.11      | 31.73          | 10.24     | 33.11         | 349     | 108       | A         | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |            |            |            |                |           |               |         |           |           |         |



**Band 1 5150~5250MHz**

**WIFI 802.11ac VHT40 (Harmonic @ 3m)**

| WIFI Ant. | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|-----------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|-------|
| 1         |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| 802.11ac  |                                                                                             | 10380     | 47.44      | -20.76     | 68.2       | 48.63      | 39.62          | 16.14     | 56.95         | 100     | 0         | P         | H     |
| VHT40     |                                                                                             | 15570     | 45.03      | -28.97     | 74         | 42.95      | 38.15          | 20.55     | 56.62         | 100     | 0         | P         | H     |
| CH 38     |                                                                                             | 10380     | 47.04      | -21.16     | 68.2       | 48.23      | 39.62          | 16.14     | 56.95         | 100     | 0         | P         | V     |
| 5190MHz   |                                                                                             | 15570     | 45.17      | -28.83     | 74         | 43.09      | 38.15          | 20.55     | 56.62         | 100     | 0         | P         | V     |
| 802.11ac  |                                                                                             | 10460     | 46.39      | -21.81     | 68.2       | 47.42      | 39.7           | 16.19     | 56.92         | 100     | 0         | P         | H     |
| VHT40     |                                                                                             | 15690     | 44.83      | -29.17     | 74         | 43.22      | 37.55          | 20.53     | 56.47         | 100     | 0         | P         | H     |
| CH 46     |                                                                                             | 10460     | 46.89      | -21.31     | 68.2       | 47.92      | 39.7           | 16.19     | 56.92         | 100     | 0         | P         | V     |
| 5230MHz   |                                                                                             | 15690     | 45.42      | -28.58     | 74         | 43.81      | 37.55          | 20.53     | 56.47         | 100     | 0         | P         | V     |
| Remark    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |            |            |            |                |           |               |         |           |           |       |



## Band 1 5150~5250MHz

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

| WIFI Ant.                             | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|---------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| 1                                     |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                             | 5144.16   | 55.29      | -18.71     | 74         | 46.49      | 31.89          | 10.03     | 33.12         | 100     | 59        | P         | H       |
|                                       |                                                                                             | 5141.78   | 48.82      | -5.18      | 54         | 40.03      | 31.88          | 10.03     | 33.12         | 100     | 59        | A         | H       |
|                                       | *                                                                                           | 5210      | 92.82      | -          | -          | 84.29      | 31.56          | 10.09     | 33.12         | 100     | 59        | P         | H       |
|                                       | *                                                                                           | 5210      | 84.92      | -          | -          | 76.39      | 31.56          | 10.09     | 33.12         | 100     | 59        | A         | H       |
|                                       |                                                                                             | 5454.28   | 49.08      | -24.92     | 74         | 40.24      | 31.72          | 10.23     | 33.11         | 100     | 59        | P         | H       |
|                                       |                                                                                             | 5449.08   | 40.83      | -13.17     | 54         | 32.01      | 31.7           | 10.23     | 33.11         | 100     | 59        | A         | H       |
|                                       |                                                                                             | 5146.54   | 56.38      | -17.62     | 74         | 47.58      | 31.89          | 10.03     | 33.12         | 377     | 107       | P         | V       |
|                                       |                                                                                             | 5149.94   | 49.87      | -4.13      | 54         | 41.06      | 31.9           | 10.03     | 33.12         | 377     | 107       | A         | V       |
|                                       | *                                                                                           | 5210      | 95.14      | -          | -          | 86.61      | 31.56          | 10.09     | 33.12         | 377     | 107       | P         | V       |
|                                       | *                                                                                           | 5210      | 87.31      | -          | -          | 78.78      | 31.56          | 10.09     | 33.12         | 377     | 107       | A         | V       |
|                                       |                                                                                             | 5410.34   | 48.61      | -25.39     | 74         | 39.93      | 31.62          | 10.17     | 33.11         | 377     | 107       | P         | V       |
|                                       |                                                                                             | 5445.7    | 40.8       | -13.2      | 54         | 32         | 31.69          | 10.22     | 33.11         | 377     | 107       | A         | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |            |            |            |                |           |               |         |           |           |         |

## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI Ant.                             | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|---------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| 1                                     |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                             | 10420     | 47.55      | -20.65     | 68.2       | 48.62      | 39.7           | 16.16     | 56.93         | 100     | 0         | P         | H       |
|                                       |                                                                                             | 15630     | 45.88      | -28.12     | 74         | 44.02      | 37.85          | 20.54     | 56.53         | 100     | 0         | P         | H       |
|                                       |                                                                                             | 10420     | 47.48      | -20.72     | 68.2       | 48.55      | 39.7           | 16.16     | 56.93         | 100     | 0         | P         | V       |
|                                       |                                                                                             | 15630     | 45.68      | -28.32     | 74         | 43.82      | 37.85          | 20.54     | 56.53         | 100     | 0         | P         | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |            |            |            |                |           |               |         |           |           |         |



**Band 2 - 5250~5350MHz**

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

| WIFI                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                        |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                           |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5083.3    | 50.11      | -23.89 | 74         | 41.54    | 31.73    | 9.96   | 33.12  | 100    | 57      | P       | H       |
|                             |      | 5107.78   | 41.25      | -12.75 | 54         | 32.56    | 31.82    | 9.99   | 33.12  | 100    | 57      | A       | H       |
|                             | *    | 5260      | 101.38     | -      | -          | 93       | 31.38    | 10.11  | 33.11  | 100    | 57      | P       | H       |
|                             | *    | 5260      | 94         | -      | -          | 85.62    | 31.38    | 10.11  | 33.11  | 100    | 57      | A       | H       |
|                             |      | 5409.12   | 48.69      | -25.31 | 74         | 40.02    | 31.62    | 10.16  | 33.11  | 100    | 57      | P       | H       |
|                             |      | 5459.52   | 40.32      | -13.68 | 54         | 31.45    | 31.74    | 10.24  | 33.11  | 100    | 57      | A       | H       |
|                             |      | 5113.56   | 49.84      | -24.16 | 74         | 41.14    | 31.83    | 9.99   | 33.12  | 329    | 108     | P       | V       |
|                             |      | 5138.72   | 41.25      | -12.75 | 54         | 32.47    | 31.88    | 10.02  | 33.12  | 329    | 108     | A       | V       |
|                             | *    | 5260      | 101.86     | -      | -          | 93.48    | 31.38    | 10.11  | 33.11  | 329    | 108     | P       | V       |
|                             | *    | 5260      | 94.47      | -      | -          | 86.09    | 31.38    | 10.11  | 33.11  | 329    | 108     | A       | V       |
|                             |      | 5456.4    | 49.1       | -24.9  | 74         | 40.24    | 31.73    | 10.24  | 33.11  | 329    | 108     | P       | V       |
|                             |      | 5458.56   | 40.34      | -13.66 | 54         | 31.48    | 31.73    | 10.24  | 33.11  | 329    | 108     | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5110.84   | 50.95      | -23.05 | 74         | 42.26    | 31.82    | 9.99   | 33.12  | 101    | 58      | P       | H       |
|                             |      | 5053.72   | 41.3       | -12.7  | 54         | 32.88    | 31.61    | 9.93   | 33.12  | 101    | 58      | A       | H       |
|                             | *    | 5300      | 101.85     | -      | -          | 93.54    | 31.3     | 10.12  | 33.11  | 101    | 58      | P       | H       |
|                             | *    | 5300      | 94.38      | -      | -          | 86.07    | 31.3     | 10.12  | 33.11  | 101    | 58      | A       | H       |
|                             |      | 5435.04   | 48.86      | -25.14 | 74         | 40.1     | 31.67    | 10.2   | 33.11  | 101    | 58      | P       | H       |
|                             |      | 5352      | 40.89      | -13.11 | 54         | 32.55    | 31.31    | 10.14  | 33.11  | 101    | 58      | A       | H       |
|                             |      | 5134.64   | 49.69      | -24.31 | 74         | 40.92    | 31.87    | 10.02  | 33.12  | 357    | 113     | P       | V       |
|                             |      | 5116.28   | 41.28      | -12.72 | 54         | 32.57    | 31.83    | 10     | 33.12  | 357    | 113     | A       | V       |
|                             | *    | 5300      | 103.27     | -      | -          | 94.96    | 31.3     | 10.12  | 33.11  | 357    | 113     | P       | V       |
|                             | *    | 5300      | 95.21      | -      | -          | 86.9     | 31.3     | 10.12  | 33.11  | 357    | 113     | A       | V       |
|                             |      | 5427.36   | 49.5       | -24.5  | 74         | 40.77    | 31.65    | 10.19  | 33.11  | 357    | 113     | P       | V       |
|                             |      | 5351.76   | 40.95      | -13.05 | 54         | 32.61    | 31.31    | 10.14  | 33.11  | 357    | 113     | A       | V       |



|                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 102.3  | -      | -  | 93.98 | 31.3  | 10.13 | 33.11 | 100 | 60  | P | H |
|                                                  | *                                                                                           | 5320    | 94.87  | -      | -  | 86.55 | 31.3  | 10.13 | 33.11 | 100 | 60  | A | H |
|                                                  |                                                                                             | 5365.76 | 49.69  | -24.31 | 74 | 41.27 | 31.39 | 10.14 | 33.11 | 100 | 60  | P | H |
|                                                  |                                                                                             | 5352.64 | 41.59  | -12.41 | 54 | 33.24 | 31.32 | 10.14 | 33.11 | 100 | 60  | A | H |
|                                                  | *                                                                                           | 5320    | 102.88 | -      | -  | 94.56 | 31.3  | 10.13 | 33.11 | 338 | 113 | P | V |
|                                                  | *                                                                                           | 5320    | 95.48  | -      | -  | 87.16 | 31.3  | 10.13 | 33.11 | 338 | 113 | A | V |
|                                                  |                                                                                             | 5371.68 | 50.05  | -23.95 | 74 | 41.59 | 31.43 | 10.14 | 33.11 | 338 | 113 | P | V |
|                                                  |                                                                                             | 5350.24 | 41.78  | -12.22 | 54 | 33.45 | 31.3  | 10.14 | 33.11 | 338 | 113 | A | V |
| Remark                                           | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



**Band 1 5150~5250MHz**

**WIFI 802.11a (Harmonic @ 3m)**

| WIFI Ant.                            | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|--------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|-------|
| 1                                    |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| <b>802.11a<br/>CH 52<br/>5260MHz</b> |                                                                                             | 10520     | 46.62      | -21.58     | 68.2       | 47.59      | 39.7           | 15.99     | 56.89         | 100     | 0         | P         | H     |
|                                      |                                                                                             | 15780     | 45.6       | -28.4      | 74         | 43.88      | 37.58          | 20.06     | 56.37         | 100     | 0         | P         | H     |
|                                      |                                                                                             | 10520     | 45.38      | -22.82     | 68.2       | 46.35      | 39.7           | 15.99     | 56.89         | 100     | 0         | P         | V     |
|                                      |                                                                                             | 15780     | 46.1       | -27.9      | 74         | 44.38      | 37.58          | 20.06     | 56.37         | 100     | 0         | P         | V     |
| <b>802.11a<br/>CH 60<br/>5300MHz</b> |                                                                                             | 10600     | 47.13      | -26.87     | 74         | 47.98      | 39.7           | 16.04     | 56.82         | 100     | 0         | P         | H     |
|                                      |                                                                                             | 15900     | 44.21      | -29.79     | 74         | 42.75      | 37.2           | 20.06     | 56.22         | 100     | 0         | P         | H     |
|                                      |                                                                                             | 10600     | 45.31      | -28.69     | 74         | 46.16      | 39.7           | 16.04     | 56.82         | 100     | 0         | P         | V     |
|                                      |                                                                                             | 15900     | 44.77      | -29.23     | 74         | 43.31      | 37.2           | 20.06     | 56.22         | 100     | 0         | P         | V     |
| <b>802.11a<br/>CH 64<br/>5320MHz</b> |                                                                                             | 10640     | 45.03      | -28.97     | 74         | 45.86      | 39.66          | 16.07     | 56.79         | 100     | 0         | P         | H     |
|                                      |                                                                                             | 15960     | 44.08      | -29.92     | 74         | 42.73      | 37.02          | 20.06     | 56.14         | 100     | 0         | P         | H     |
|                                      |                                                                                             | 10640     | 44.81      | -29.19     | 74         | 45.64      | 39.66          | 16.07     | 56.79         | 100     | 0         | P         | V     |
|                                      |                                                                                             | 15960     | 44.06      | -29.94     | 74         | 42.71      | 37.02          | 20.06     | 56.14         | 100     | 0         | P         | V     |
| <b>Remark</b>                        | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |           |            |            |            |            |                |           |               |         |           |           |       |



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

| WIFI Ant.                                       | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|-------------------------------------------------|------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|-------|
| 1                                               |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| <b>802.11ac<br/>VHT20<br/>CH 52<br/>5260MHz</b> |      | 5048.62   | 51.3       | -22.7      | 74         | 42.91      | 31.59          | 9.92      | 33.12         | 100     | 58        | P         | H     |
|                                                 |      | 5060.18   | 41.25      | -12.75     | 54         | 32.79      | 31.64          | 9.94      | 33.12         | 100     | 58        | A         | H     |
|                                                 | *    | 5260      | 99.7       | -          | -          | 91.32      | 31.38          | 10.11     | 33.11         | 100     | 58        | P         | H     |
|                                                 | *    | 5260      | 91.98      | -          | -          | 83.6       | 31.38          | 10.11     | 33.11         | 100     | 58        | A         | H     |
|                                                 |      | 5427.36   | 49.72      | -24.28     | 74         | 40.99      | 31.65          | 10.19     | 33.11         | 100     | 58        | P         | H     |
|                                                 |      | 5436.24   | 39.83      | -14.17     | 54         | 31.06      | 31.67          | 10.21     | 33.11         | 100     | 58        | A         | H     |
|                                                 |      | 5000      | 50.68      | -23.32     | 74         | 42.53      | 31.4           | 9.87      | 33.12         | 326     | 113       | P         | V     |
|                                                 |      | 5108.46   | 41.09      | -12.91     | 54         | 32.4       | 31.82          | 9.99      | 33.12         | 326     | 113       | A         | V     |
|                                                 | *    | 5260      | 101.63     | -          | -          | 93.25      | 31.38          | 10.11     | 33.11         | 326     | 113       | P         | V     |
|                                                 | *    | 5260      | 93.93      | -          | -          | 85.55      | 31.38          | 10.11     | 33.11         | 326     | 113       | A         | V     |
|                                                 |      | 5398.32   | 49.26      | -24.74     | 74         | 40.63      | 31.59          | 10.15     | 33.11         | 326     | 113       | P         | V     |
|                                                 |      | 5453.52   | 39.8       | -14.2      | 54         | 30.97      | 31.71          | 10.23     | 33.11         | 326     | 113       | A         | V     |
| <b>802.11ac<br/>VHT20<br/>CH 60<br/>5300MHz</b> |      | 5027.88   | 51.08      | -22.92     | 74         | 42.79      | 31.51          | 9.9       | 33.12         | 104     | 57        | P         | H     |
|                                                 |      | 5083.64   | 41.39      | -12.61     | 54         | 32.82      | 31.73          | 9.96      | 33.12         | 104     | 57        | A         | H     |
|                                                 | *    | 5300      | 99.81      | -          | -          | 91.5       | 31.3           | 10.12     | 33.11         | 104     | 57        | P         | H     |
|                                                 | *    | 5300      | 92.19      | -          | -          | 83.88      | 31.3           | 10.12     | 33.11         | 104     | 57        | P         | H     |
|                                                 |      | 5368.08   | 49.38      | -24.62     | 74         | 40.94      | 31.41          | 10.14     | 33.11         | 104     | 57        | P         | H     |
|                                                 |      | 5451.36   | 40.06      | -13.94     | 54         | 31.23      | 31.71          | 10.23     | 33.11         | 104     | 57        | A         | H     |
|                                                 |      | 5149.26   | 50.47      | -23.53     | 74         | 41.66      | 31.9           | 10.03     | 33.12         | 320     | 112       | P         | V     |
|                                                 |      | 5100.98   | 41.23      | -12.77     | 54         | 32.57      | 31.8           | 9.98      | 33.12         | 320     | 112       | A         | V     |
|                                                 | *    | 5300      | 102.43     | -          | -          | 94.12      | 31.3           | 10.12     | 33.11         | 320     | 112       | P         | V     |
|                                                 | *    | 5300      | 94.85      | -          | -          | 86.54      | 31.3           | 10.12     | 33.11         | 320     | 112       | A         | V     |
|                                                 |      | 5368.08   | 50.54      | -23.46     | 74         | 42.1       | 31.41          | 10.14     | 33.11         | 320     | 112       | P         | V     |
|                                                 |      | 5351.76   | 40.62      | -13.38     | 54         | 32.28      | 31.31          | 10.14     | 33.11         | 320     | 112       | A         | V     |



|                                                                   |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 100.12 | -      | -  | 91.8  | 31.3  | 10.13 | 33.11 | 100 | 63  | P | H |
|                                                                   | *                                                                                           | 5320    | 92.54  | -      | -  | 84.22 | 31.3  | 10.13 | 33.11 | 100 | 63  | A | H |
|                                                                   |                                                                                             | 5351.52 | 50.78  | -23.22 | 74 | 42.44 | 31.31 | 10.14 | 33.11 | 100 | 63  | P | H |
|                                                                   |                                                                                             | 5353.12 | 40.73  | -13.27 | 54 | 32.38 | 31.32 | 10.14 | 33.11 | 100 | 63  | A | H |
|                                                                   | *                                                                                           | 5320    | 102.89 | -      | -  | 94.57 | 31.3  | 10.13 | 33.11 | 338 | 112 | P | V |
|                                                                   | *                                                                                           | 5320    | 95.11  | -      | -  | 86.79 | 31.3  | 10.13 | 33.11 | 338 | 112 | A | V |
|                                                                   |                                                                                             | 5369.76 | 50.79  | -23.21 | 74 | 42.34 | 31.42 | 10.14 | 33.11 | 338 | 112 | P | V |
|                                                                   |                                                                                             | 5350.72 | 41.43  | -12.57 | 54 | 33.1  | 31.3  | 10.14 | 33.11 | 338 | 112 | 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 802.11ac VHT20 (Harmonic @ 3m)**

| WIFI Ant. | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preampl Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|-----------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|----------------|---------|-----------|-----------|-------|
| 1         |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )    | ( dB )         | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| 802.11ac  |                                                                                             | 10520     | 46.21      | -21.99     | 68.2       | 47.18      | 39.7           | 16.22     | 56.89          | 100     | 0         | P         | H     |
| VHT20     |                                                                                             | 15780     | 44.84      | -29.16     | 74         | 43.12      | 37.58          | 20.51     | 56.37          | 100     | 0         | P         | H     |
| CH 52     |                                                                                             | 10520     | 46.56      | -21.64     | 68.2       | 47.53      | 39.7           | 16.22     | 56.89          | 100     | 0         | P         | V     |
| 5260MHz   |                                                                                             | 15780     | 45.42      | -28.58     | 74         | 43.7       | 37.58          | 20.51     | 56.37          | 100     | 0         | P         | V     |
| 802.11ac  |                                                                                             | 10600     | 46.66      | -27.34     | 74         | 47.51      | 39.7           | 16.27     | 56.82          | 100     | 0         | P         | H     |
| VHT20     |                                                                                             | 15900     | 44.38      | -29.62     | 74         | 42.92      | 37.2           | 20.48     | 56.22          | 100     | 0         | P         | H     |
| CH 60     |                                                                                             | 10600     | 45.2       | -28.8      | 74         | 46.05      | 39.7           | 16.27     | 56.82          | 100     | 0         | P         | V     |
| 5300MHz   |                                                                                             | 15900     | 44.77      | -29.23     | 74         | 43.31      | 37.2           | 20.48     | 56.22          | 100     | 0         | P         | V     |
| 802.11ac  |                                                                                             | 10640     | 45.6       | -28.4      | 74         | 46.43      | 39.66          | 16.3      | 56.79          | 100     | 0         | P         | H     |
| VHT20     |                                                                                             | 15960     | 44.68      | -29.32     | 74         | 43.33      | 37.02          | 20.47     | 56.14          | 100     | 0         | P         | H     |
| CH 64     |                                                                                             | 10640     | 45.19      | -28.81     | 74         | 46.02      | 39.66          | 16.3      | 56.79          | 100     | 0         | P         | V     |
| 5320MHz   |                                                                                             | 15960     | 44.25      | -29.75     | 74         | 42.9       | 37.02          | 20.47     | 56.14          | 100     | 0         | P         | 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 VHT40 (Band Edge @ 3m)

| WIFI Ant.                             | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|---------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| 1                                     |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11ac<br>VHT40<br>CH 54<br>5270MHz |                                                                                             | 5028.9    | 51.56      | -22.44     | 74         | 43.26      | 31.52          | 9.9       | 33.12         | 100     | 55        | P         | H       |
|                                       |                                                                                             | 5131.58   | 41.95      | -12.05     | 54         | 33.2       | 31.86          | 10.01     | 33.12         | 100     | 55        | A         | H       |
|                                       | *                                                                                           | 5270      | 97.45      | -          | -          | 89.09      | 31.36          | 10.11     | 33.11         | 100     | 55        | P         | H       |
|                                       | *                                                                                           | 5270      | 89.3       | -          | -          | 80.94      | 31.36          | 10.11     | 33.11         | 100     | 55        | A         | H       |
|                                       |                                                                                             | 5415.6    | 49.67      | -24.33     | 74         | 40.98      | 31.63          | 10.17     | 33.11         | 100     | 55        | P         | H       |
|                                       |                                                                                             | 5459.28   | 40.84      | -13.16     | 54         | 31.97      | 31.74          | 10.24     | 33.11         | 100     | 55        | A         | H       |
|                                       |                                                                                             | 5108.46   | 51.08      | -22.92     | 74         | 42.39      | 31.82          | 9.99      | 33.12         | 343     | 108       | P         | V       |
|                                       |                                                                                             | 5106.76   | 41.95      | -12.05     | 54         | 33.27      | 31.81          | 9.99      | 33.12         | 343     | 108       | A         | V       |
|                                       | *                                                                                           | 5270      | 99.72      | -          | -          | 91.36      | 31.36          | 10.11     | 33.11         | 343     | 108       | P         | V       |
|                                       | *                                                                                           | 5270      | 91.46      | -          | -          | 83.1       | 31.36          | 10.11     | 33.11         | 343     | 108       | A         | V       |
|                                       |                                                                                             | 5375.76   | 49.68      | -24.32     | 74         | 41.2       | 31.45          | 10.14     | 33.11         | 343     | 108       | P         | V       |
|                                       |                                                                                             | 5446.8    | 40.62      | -13.38     | 54         | 31.82      | 31.69          | 10.22     | 33.11         | 343     | 108       | A         | V       |
| 802.11ac<br>VHT40<br>CH 62<br>5310MHz |                                                                                             | 5100.98   | 49.73      | -24.27     | 74         | 41.07      | 31.8           | 9.98      | 33.12         | 100     | 58        | P         | H       |
|                                       |                                                                                             | 5052.7    | 41.97      | -12.03     | 54         | 33.55      | 31.61          | 9.93      | 33.12         | 100     | 58        | A         | H       |
|                                       | *                                                                                           | 5310      | 97.2       | -          | -          | 88.89      | 31.3           | 10.12     | 33.11         | 100     | 58        | P         | H       |
|                                       | *                                                                                           | 5310      | 89.58      | -          | -          | 81.27      | 31.3           | 10.12     | 33.11         | 100     | 58        | A         | H       |
|                                       |                                                                                             | 5352.72   | 50.84      | -23.16     | 74         | 42.49      | 31.32          | 10.14     | 33.11         | 100     | 58        | P         | H       |
|                                       |                                                                                             | 5350.56   | 44.72      | -9.28      | 54         | 36.39      | 31.3           | 10.14     | 33.11         | 100     | 58        | A         | H       |
|                                       |                                                                                             | 5066.98   | 50.03      | -23.97     | 74         | 41.54      | 31.67          | 9.94      | 33.12         | 342     | 112       | P         | V       |
|                                       |                                                                                             | 5108.46   | 42.05      | -11.95     | 54         | 33.36      | 31.82          | 9.99      | 33.12         | 342     | 112       | A         | V       |
|                                       | *                                                                                           | 5310      | 100.1      | -          | -          | 91.79      | 31.3           | 10.12     | 33.11         | 342     | 112       | P         | V       |
|                                       | *                                                                                           | 5310      | 92.17      | -          | -          | 83.86      | 31.3           | 10.12     | 33.11         | 342     | 112       | A         | V       |
|                                       |                                                                                             | 5351.52   | 53.18      | -20.82     | 74         | 44.84      | 31.31          | 10.14     | 33.11         | 342     | 112       | P         | V       |
|                                       |                                                                                             | 5350.08   | 46.41      | -7.59      | 54         | 38.08      | 31.3           | 10.14     | 33.11         | 342     | 112       | A         | 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 VHT40 (Harmonic @ 3m)**

| WIFI Ant. | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preampl Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|-----------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|----------------|---------|-----------|-----------|-------|
| 1         |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )    | ( dB )         | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| 802.11ac  |                                                                                             | 10540     | 44.65      | -23.55     | 68.2       | 45.59      | 39.7           | 16.23     | 56.87          | 100     | 0         | P         | H     |
| VHT40     |                                                                                             | 15810     | 45.25      | -28.75     | 74         | 43.52      | 37.56          | 20.5      | 56.33          | 100     | 0         | P         | H     |
| CH 54     |                                                                                             | 10540     | 44.43      | -23.77     | 68.2       | 45.37      | 39.7           | 16.23     | 56.87          | 100     | 0         | P         | V     |
| 5270MHz   |                                                                                             | 15810     | 45.63      | -28.37     | 74         | 43.9       | 37.56          | 20.5      | 56.33          | 100     | 0         | P         | V     |
| 802.11ac  |                                                                                             | 10620     | 44.06      | -29.94     | 74         | 44.9       | 39.68          | 16.28     | 56.8           | 100     | 0         | P         | H     |
| VHT40     |                                                                                             | 15930     | 43.42      | -30.58     | 74         | 42.02      | 37.11          | 20.47     | 56.18          | 100     | 0         | P         | H     |
| CH 62     |                                                                                             | 10620     | 43.6       | -30.4      | 74         | 44.44      | 39.68          | 16.28     | 56.8           | 100     | 0         | P         | V     |
| 5310MHz   |                                                                                             | 15930     | 44.37      | -29.63     | 74         | 42.97      | 37.11          | 20.47     | 56.18          | 100     | 0         | P         | 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 VHT80 (Band Edge @ 3m)

| WIFI Ant.                             | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|---------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| 1                                     |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                             | 5046.2    | 50.96      | -23.04     | 74         | 42.58      | 31.58          | 9.92      | 33.12         | 100     | 59        | P         | H       |
|                                       |                                                                                             | 5111.6    | 42.03      | -11.97     | 54         | 33.34      | 31.82          | 9.99      | 33.12         | 100     | 59        | A         | H       |
|                                       | *                                                                                           | 5290      | 93.73      | -          | -          | 85.4       | 31.32          | 10.12     | 33.11         | 100     | 59        | P         | H       |
|                                       | *                                                                                           | 5290      | 85.97      | -          | -          | 77.64      | 31.32          | 10.12     | 33.11         | 100     | 59        | A         | H       |
|                                       |                                                                                             | 5358.96   | 53.32      | -20.68     | 74         | 44.94      | 31.35          | 10.14     | 33.11         | 100     | 59        | P         | H       |
|                                       |                                                                                             | 5350.32   | 45.74      | -8.26      | 54         | 37.41      | 31.3           | 10.14     | 33.11         | 100     | 59        | A         | H       |
|                                       |                                                                                             | 5136.8    | 50.87      | -23.13     | 74         | 42.1       | 31.87          | 10.02     | 33.12         | 342     | 111       | P         | V       |
|                                       |                                                                                             | 5083.1    | 42.04      | -11.96     | 54         | 33.47      | 31.73          | 9.96      | 33.12         | 342     | 111       | A         | V       |
|                                       | *                                                                                           | 5290      | 96.01      | -          | -          | 87.68      | 31.32          | 10.12     | 33.11         | 342     | 111       | P         | V       |
|                                       | *                                                                                           | 5290      | 88.3       | -          | -          | 79.97      | 31.32          | 10.12     | 33.11         | 342     | 111       | A         | V       |
|                                       |                                                                                             | 5354.88   | 54.21      | -19.79     | 74         | 45.85      | 31.33          | 10.14     | 33.11         | 342     | 111       | P         | V       |
|                                       |                                                                                             | 5350.32   | 47.4       | -6.6       | 54         | 39.07      | 31.3           | 10.14     | 33.11         | 342     | 111       | A         | 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 VHT80 (Harmonic @ 3m)

| WIFI Ant.                             | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|---------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| 1                                     |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                             | 10580     | 44.65      | -23.55     | 68.2       | 45.52      | 39.7           | 16.26     | 56.83         | 100     | 0         | P         | H       |
|                                       |                                                                                             | 15870     | 44.36      | -29.64     | 74         | 42.79      | 37.32          | 20.49     | 56.24         | 100     | 0         | P         | H       |
|                                       |                                                                                             | 10580     | 43.71      | -24.49     | 68.2       | 44.58      | 39.7           | 16.26     | 56.83         | 100     | 0         | P         | V       |
|                                       |                                                                                             | 15870     | 44.32      | -29.68     | 74         | 42.75      | 37.32          | 20.49     | 56.24         | 100     | 0         | 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 802.11a (Band Edge @ 3m)**

| WIFI                                  | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                  |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                                     |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| <b>802.11a<br/>CH 100<br/>5500MHz</b> |      | 5459.92   | 52.05      | -21.95 | 74         | 43.18    | 31.74    | 10.24  | 33.11  | 100    | 65      | P       | H       |
|                                       |      | 5469.36   | 51.97      | -16.23 | 68.2       | 43.04    | 31.78    | 10.26  | 33.11  | 100    | 65      | P       | H       |
|                                       |      | 5459.44   | 41.31      | -12.69 | 54         | 32.44    | 31.74    | 10.24  | 33.11  | 100    | 65      | A       | H       |
|                                       | *    | 5500      | 101.61     | -      | -          | 92.51    | 31.9     | 10.31  | 33.11  | 100    | 65      | P       | H       |
|                                       | *    | 5500      | 94.11      | -      | -          | 85.01    | 31.9     | 10.31  | 33.11  | 100    | 65      | A       | H       |
|                                       |      | 5455.76   | 50.24      | -23.76 | 74         | 41.39    | 31.72    | 10.24  | 33.11  | 100    | 320     | P       | V       |
|                                       |      | 5468.4    | 49.85      | -18.35 | 68.2       | 40.93    | 31.77    | 10.26  | 33.11  | 100    | 320     | P       | V       |
|                                       |      | 5459.92   | 40.54      | -13.46 | 54         | 31.67    | 31.74    | 10.24  | 33.11  | 100    | 320     | A       | V       |
|                                       | *    | 5500      | 99.64      | -      | -          | 90.54    | 31.9     | 10.31  | 33.11  | 100    | 320     | P       | V       |
|                                       | *    | 5500      | 92.6       | -      | -          | 83.5     | 31.9     | 10.31  | 33.11  | 100    | 320     | A       | V       |
| <b>802.11a<br/>CH 116<br/>5580MHz</b> |      | 5388.4    | 49.16      | -24.84 | 74         | 40.59    | 31.53    | 10.15  | 33.11  | 100    | 64      | P       | H       |
|                                       |      | 5464      | 48.69      | -19.51 | 68.2       | 39.79    | 31.76    | 10.25  | 33.11  | 100    | 64      | P       | H       |
|                                       |      | 5455.36   | 40.07      | -13.93 | 54         | 31.22    | 31.72    | 10.24  | 33.11  | 100    | 64      | A       | H       |
|                                       | *    | 5580      | 103.12     | -      | -          | 94.03    | 31.8     | 10.43  | 33.14  | 100    | 64      | P       | H       |
|                                       | *    | 5580      | 95.51      | -      | -          | 86.42    | 31.8     | 10.43  | 33.14  | 100    | 64      | A       | H       |
|                                       |      | 5737.28   | 49.77      | -18.43 | 68.2       | 40.35    | 32.07    | 10.54  | 33.19  | 100    | 64      | P       | H       |
|                                       |      | 5420.56   | 49.66      | -24.34 | 74         | 40.95    | 31.64    | 10.18  | 33.11  | 103    | 321     | P       | V       |
|                                       |      | 5464      | 47.86      | -20.34 | 68.2       | 38.96    | 31.76    | 10.25  | 33.11  | 103    | 321     | P       | V       |
|                                       |      | 5440      | 40.39      | -13.61 | 54         | 31.61    | 31.68    | 10.21  | 33.11  | 103    | 321     | A       | V       |
|                                       | *    | 5580      | 97.7       | -      | -          | 88.61    | 31.8     | 10.43  | 33.14  | 103    | 321     | P       | V       |
|                                       | *    | 5580      | 90.29      | -      | -          | 81.2     | 31.8     | 10.43  | 33.14  | 103    | 321     | A       | V       |
|                                       |      | 5726.885  | 50.93      | -17.27 | 68.2       | 41.53    | 32.05    | 10.53  | 33.18  | 103    | 321     | P       | V       |



|                                                   |                                                                                             |         |        |        |      |       |       |       |       |     |     |   |   |
|---------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|------|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 140</b><br><b>5700MHz</b> | *                                                                                           | 5700    | 103.25 | -      | -    | 93.91 | 32    | 10.51 | 33.17 | 110 | 64  | P | H |
|                                                   | *                                                                                           | 5700    | 95.93  | -      | -    | 86.59 | 32    | 10.51 | 33.17 | 110 | 64  | A | H |
|                                                   |                                                                                             | 5725.96 | 56.32  | -11.88 | 68.2 | 46.92 | 32.05 | 10.53 | 33.18 | 110 | 64  | P | H |
|                                                   | *                                                                                           | 5700    | 100.45 | -      | -    | 91.11 | 32    | 10.51 | 33.17 | 110 | 246 | P | V |
|                                                   | *                                                                                           | 5700    | 92.62  | -      | -    | 83.28 | 32    | 10.51 | 33.17 | 110 | 246 | A | V |
|                                                   |                                                                                             | 5735.48 | 54.06  | -14.14 | 68.2 | 44.65 | 32.07 | 10.53 | 33.19 | 110 | 246 | P | 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.                             | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|---------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|-------|
| 1                                     |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| <b>802.11a<br/>CH 100<br/>5500MHz</b> |                                                                                             | 11000     | 46.47      | -27.53     | 74         | 46.46      | 40             | 16.51     | 56.5          | 100     | 0         | P         | H     |
|                                       |                                                                                             | 16500     | 47.95      | -20.25     | 68.2       | 43.8       | 38.7           | 21.15     | 55.7          | 100     | 0         | P         | H     |
|                                       |                                                                                             | 11000     | 46.66      | -27.34     | 74         | 46.65      | 40             | 16.51     | 56.5          | 100     | 0         | P         | V     |
|                                       |                                                                                             | 16500     | 46.64      | -21.56     | 68.2       | 42.49      | 38.7           | 21.15     | 55.7          | 100     | 0         | P         | V     |
| <b>802.11a<br/>CH 116<br/>5580MHz</b> |                                                                                             | 11160     | 48.12      | -25.88     | 74         | 48.33      | 39.48          | 16.74     | 56.43         | 100     | 0         | P         | H     |
|                                       |                                                                                             | 16740     | 47.55      | -20.65     | 68.2       | 42.4       | 39.56          | 21.48     | 55.89         | 100     | 0         | P         | H     |
|                                       |                                                                                             | 11160     | 47.69      | -26.31     | 74         | 47.9       | 39.48          | 16.74     | 56.43         | 100     | 0         | P         | V     |
|                                       |                                                                                             | 16740     | 48.22      | -19.98     | 68.2       | 43.07      | 39.56          | 21.48     | 55.89         | 100     | 0         | P         | V     |
| <b>802.11a<br/>CH 140<br/>5700MHz</b> |                                                                                             | 11400     | 46.73      | -27.27     | 74         | 46.28      | 39.7           | 17.09     | 56.34         | 100     | 0         | P         | H     |
|                                       |                                                                                             | 17100     | 48.55      | -19.65     | 68.2       | 42.81      | 40.1           | 21.94     | 56.3          | 100     | 0         | P         | H     |
|                                       |                                                                                             | 11400     | 46.65      | -27.35     | 74         | 46.2       | 39.7           | 17.09     | 56.34         | 100     | 0         | P         | V     |
|                                       |                                                                                             | 17100     | 48.6       | -19.6      | 68.2       | 42.86      | 40.1           | 21.94     | 56.3          | 100     | 0         | P         | 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 (Band Edge @ 3m)**

| WIFI Ant.                                        | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|--------------------------------------------------|------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| 1                                                |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| <b>802.11ac<br/>VHT20<br/>CH 100<br/>5500MHz</b> |      | 5439.6    | 50.6       | -23.4      | 74         | 41.82      | 31.68          | 10.21     | 33.11         | 100     | 65        | P         | H       |
|                                                  |      | 5465.36   | 50.76      | -17.44     | 68.2       | 41.86      | 31.76          | 10.25     | 33.11         | 100     | 65        | P         | H       |
|                                                  |      | 5457.68   | 41.26      | -12.74     | 54         | 32.4       | 31.73          | 10.24     | 33.11         | 100     | 65        | A         | H       |
|                                                  | *    | 5500      | 101.74     | -          | -          | 92.64      | 31.9           | 10.31     | 33.11         | 100     | 65        | P         | H       |
|                                                  | *    | 5500      | 94.12      | -          | -          | 85.02      | 31.9           | 10.31     | 33.11         | 100     | 65        | A         | H       |
|                                                  |      | 5459.92   | 49.65      | -24.35     | 74         | 40.78      | 31.74          | 10.24     | 33.11         | 100     | 258       | P         | V       |
|                                                  |      | 5461.84   | 49.46      | -18.74     | 68.2       | 40.57      | 31.75          | 10.25     | 33.11         | 100     | 258       | P         | V       |
|                                                  |      | 5458.8    | 40.38      | -13.62     | 54         | 31.51      | 31.74          | 10.24     | 33.11         | 100     | 258       | A         | V       |
|                                                  | *    | 5500      | 96.97      | -          | -          | 87.87      | 31.9           | 10.31     | 33.11         | 100     | 258       | P         | V       |
|                                                  | *    | 5500      | 89.23      | -          | -          | 80.13      | 31.9           | 10.31     | 33.11         | 100     | 258       | A         | V       |
| <b>802.11ac<br/>VHT20<br/>CH 116<br/>5580MHz</b> |      | 5398.72   | 49.01      | -24.99     | 74         | 40.38      | 31.59          | 10.15     | 33.11         | 100     | 64        | P         | H       |
|                                                  |      | 5464.48   | 48.71      | -19.49     | 68.2       | 39.81      | 31.76          | 10.25     | 33.11         | 100     | 64        | P         | H       |
|                                                  |      | 5452.72   | 40.07      | -13.93     | 54         | 31.24      | 31.71          | 10.23     | 33.11         | 100     | 64        | A         | H       |
|                                                  | *    | 5580      | 102.36     | -          | -          | 93.27      | 31.8           | 10.43     | 33.14         | 100     | 64        | P         | H       |
|                                                  | *    | 5580      | 94.81      | -          | -          | 85.72      | 31.8           | 10.43     | 33.14         | 100     | 64        | A         | H       |
|                                                  |      | 5761.535  | 50.23      | -17.97     | 68.2       | 40.75      | 32.12          | 10.55     | 33.19         | 100     | 64        | P         | H       |
|                                                  |      | 5418.16   | 49.28      | -24.72     | 74         | 40.57      | 31.64          | 10.18     | 33.11         | 100     | 257       | P         | V       |
|                                                  |      | 5466.88   | 48.36      | -19.84     | 68.2       | 39.45      | 31.77          | 10.25     | 33.11         | 100     | 257       | P         | V       |
|                                                  |      | 5459.68   | 40.09      | -13.91     | 54         | 31.22      | 31.74          | 10.24     | 33.11         | 100     | 257       | A         | V       |
|                                                  | *    | 5580      | 99.35      | -          | -          | 90.26      | 31.8           | 10.43     | 33.14         | 100     | 257       | P         | V       |
|                                                  | *    | 5580      | 94.62      | -          | -          | 85.53      | 31.8           | 10.43     | 33.14         | 100     | 257       | A         | V       |
|                                                  |      | 5761.535  | 50.05      | -18.15     | 68.2       | 40.57      | 32.12          | 10.55     | 33.19         | 100     | 257       | P         | V       |



# FCC RADIO TEST REPORT

Report No. : FR971613E

|                                                                                |                                                                                             |         |        |        |      |       |       |       |       |     |     |   |   |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|------|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><br><b>VHT20</b><br><br><b>CH 140</b><br><br><b>5700MHz</b> | *                                                                                           | 5700    | 103.25 | -      | -    | 93.91 | 32    | 10.51 | 33.17 | 108 | 66  | P | H |
|                                                                                | *                                                                                           | 5700    | 95.6   | -      | -    | 86.26 | 32    | 10.51 | 33.17 | 108 | 66  | A | H |
|                                                                                |                                                                                             | 5726.52 | 52.92  | -15.28 | 68.2 | 43.52 | 32.05 | 10.53 | 33.18 | 108 | 66  | P | H |
|                                                                                | *                                                                                           | 5700    | 99.78  | -      | -    | 90.44 | 32    | 10.51 | 33.17 | 107 | 246 | P | V |
|                                                                                | *                                                                                           | 5700    | 92.25  | -      | -    | 82.91 | 32    | 10.51 | 33.17 | 107 | 246 | A | V |
|                                                                                |                                                                                             | 5758.36 | 51.56  | -16.64 | 68.2 | 42.08 | 32.12 | 10.55 | 33.19 | 107 | 246 | P | 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. | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preampl Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|-----------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|----------------|---------|-----------|-----------|-------|
| 1         |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )    | ( dB )         | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| 802.11ac  |                                                                                             | 11000     | 47.66      | -26.34     | 74         | 47.65      | 40             | 16.51     | 56.5           | 100     | 0         | P         | H     |
| VHT20     |                                                                                             | 16500     | 46.81      | -21.39     | 68.2       | 42.66      | 38.7           | 21.15     | 55.7           | 100     | 0         | P         | H     |
| CH 100    |                                                                                             | 11000     | 46.84      | -27.16     | 74         | 46.83      | 40             | 16.51     | 56.5           | 100     | 0         | P         | V     |
| 5500MHz   |                                                                                             | 16500     | 46.29      | -21.91     | 68.2       | 42.14      | 38.7           | 21.15     | 55.7           | 100     | 0         | P         | V     |
| 802.11ac  |                                                                                             | 11160     | 46.9       | -27.1      | 74         | 47.11      | 39.48          | 16.74     | 56.43          | 100     | 0         | P         | H     |
| VHT20     |                                                                                             | 16740     | 47.18      | -21.02     | 68.2       | 42.03      | 39.56          | 21.48     | 55.89          | 100     | 0         | P         | H     |
| CH 116    |                                                                                             | 11160     | 47.58      | -26.42     | 74         | 47.79      | 39.48          | 16.74     | 56.43          | 100     | 0         | P         | V     |
| 5580MHz   |                                                                                             | 16740     | 47.37      | -20.83     | 68.2       | 42.22      | 39.56          | 21.48     | 55.89          | 100     | 0         | P         | V     |
| 802.11ac  |                                                                                             | 11400     | 46.49      | -27.51     | 74         | 46.04      | 39.7           | 17.09     | 56.34          | 100     | 0         | P         | H     |
| VHT20     |                                                                                             | 17100     | 48.32      | -19.88     | 68.2       | 42.58      | 40.1           | 21.94     | 56.3           | 100     | 0         | P         | H     |
| CH 140    |                                                                                             | 11400     | 47.09      | -26.91     | 74         | 46.64      | 39.7           | 17.09     | 56.34          | 100     | 0         | P         | V     |
| 5700MHz   |                                                                                             | 17100     | 48.93      | -19.27     | 68.2       | 43.19      | 40.1           | 21.94     | 56.3           | 100     | 0         | 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 VHT40 (Band Edge @ 3m)**

| WIFI Ant.                              | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|----------------------------------------|------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| 1                                      |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11ac<br>VHT40<br>CH 102<br>5510MHz |      | 5459.44   | 55.46      | -18.54     | 74         | 46.59      | 31.74          | 10.24     | 33.11         | 100     | 62        | P         | H       |
|                                        |      | 5470      | 58.2       | -10        | 68.2       | 49.27      | 31.78          | 10.26     | 33.11         | 100     | 62        | P         | H       |
|                                        |      | 5459.92   | 44.53      | -9.47      | 54         | 35.66      | 31.74          | 10.24     | 33.11         | 100     | 62        | A         | H       |
|                                        | *    | 5510      | 99.55      | -          | -          | 90.46      | 31.88          | 10.32     | 33.11         | 100     | 62        | P         | H       |
|                                        | *    | 5510      | 91.37      | -          | -          | 82.28      | 31.88          | 10.32     | 33.11         | 100     | 62        | A         | H       |
|                                        |      | 5728.775  | 50.83      | -17.37     | 68.2       | 41.42      | 32.06          | 10.53     | 33.18         | 100     | 62        | P         | H       |
|                                        |      | 5415.28   | 50.91      | -23.09     | 74         | 42.22      | 31.63          | 10.17     | 33.11         | 100     | 320       | P         | V       |
|                                        |      | 5468.08   | 54.23      | -13.97     | 68.2       | 45.31      | 31.77          | 10.26     | 33.11         | 100     | 320       | P         | V       |
|                                        |      | 5459.92   | 42.18      | -11.82     | 54         | 33.31      | 31.74          | 10.24     | 33.11         | 100     | 320       | A         | V       |
|                                        | *    | 5510      | 95.63      | -          | -          | 86.54      | 31.88          | 10.32     | 33.11         | 100     | 320       | P         | V       |
|                                        | *    | 5510      | 87.28      | -          | -          | 78.19      | 31.88          | 10.32     | 33.11         | 100     | 320       | A         | V       |
|                                        |      | 5748.935  | 49.28      | -18.92     | 68.2       | 39.83      | 32.1           | 10.54     | 33.19         | 100     | 320       | P         | V       |
| 802.11ac<br>VHT40<br>CH 110<br>5550MHz |      | 5440      | 49.98      | -24.02     | 74         | 41.2       | 31.68          | 10.21     | 33.11         | 100     | 62        | P         | H       |
|                                        |      | 5467.84   | 49.75      | -18.45     | 68.2       | 40.83      | 31.77          | 10.26     | 33.11         | 100     | 62        | P         | H       |
|                                        |      | 5452.48   | 41.26      | -12.74     | 54         | 32.43      | 31.71          | 10.23     | 33.11         | 100     | 62        | A         | H       |
|                                        | *    | 5550      | 99.25      | -          | -          | 90.2       | 31.8           | 10.38     | 33.13         | 100     | 62        | P         | H       |
|                                        | *    | 5550      | 91.33      | -          | -          | 82.28      | 31.8           | 10.38     | 33.13         | 100     | 62        | A         | H       |
|                                        |      | 5761.535  | 49.81      | -18.39     | 68.2       | 40.33      | 32.12          | 10.55     | 33.19         | 100     | 62        | P         | H       |
|                                        |      | 5449.84   | 49.37      | -24.63     | 74         | 40.55      | 31.7           | 10.23     | 33.11         | 107     | 321       | P         | V       |
|                                        |      | 5463.52   | 48.98      | -19.22     | 68.2       | 40.09      | 31.75          | 10.25     | 33.11         | 107     | 321       | P         | V       |
|                                        |      | 5459.68   | 40.88      | -13.12     | 54         | 32.01      | 31.74          | 10.24     | 33.11         | 107     | 321       | A         | V       |
|                                        | *    | 5550      | 95.07      | -          | -          | 86.02      | 31.8           | 10.38     | 33.13         | 107     | 321       | P         | V       |
|                                        | *    | 5550      | 86.97      | -          | -          | 77.92      | 31.8           | 10.38     | 33.13         | 107     | 321       | A         | V       |
|                                        |      | 5764.055  | 50.02      | -18.18     | 68.2       | 40.53      | 32.13          | 10.55     | 33.19         | 107     | 321       | P         | V       |



|                                                  |                                                                                             |          |       |        |      |       |       |       |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|----------|-------|--------|------|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11ac<br/>VHT40<br/>CH 134<br/>5670MHz</b> |                                                                                             | 5422.1   | 49.85 | -24.15 | 74   | 41.14 | 31.64 | 10.18 | 33.11 | 100 | 69  | P | H |
|                                                  |                                                                                             | 5462.35  | 50.02 | -18.18 | 68.2 | 41.13 | 31.75 | 10.25 | 33.11 | 100 | 69  | P | H |
|                                                  |                                                                                             | 5456.4   | 40.78 | -13.22 | 54   | 31.92 | 31.73 | 10.24 | 33.11 | 100 | 69  | A | H |
|                                                  | *                                                                                           | 5670     | 99.77 | -      | -    | 90.61 | 31.82 | 10.5  | 33.16 | 100 | 69  | P | H |
|                                                  | *                                                                                           | 5670     | 91.77 | -      | -    | 82.61 | 31.82 | 10.5  | 33.16 | 100 | 69  | A | H |
|                                                  |                                                                                             | 5729.65  | 52.65 | -15.55 | 68.2 | 43.24 | 32.06 | 10.53 | 33.18 | 100 | 69  | P | H |
|                                                  |                                                                                             | 5445.55  | 49.21 | -24.79 | 74   | 40.41 | 31.69 | 10.22 | 33.11 | 349 | 127 | P | V |
|                                                  |                                                                                             | 5470     | 49.11 | -19.09 | 68.2 | 40.18 | 31.78 | 10.26 | 33.11 | 349 | 127 | P | V |
|                                                  |                                                                                             | 5441     | 40.69 | -13.31 | 54   | 31.91 | 31.68 | 10.21 | 33.11 | 349 | 127 | A | V |
|                                                  | *                                                                                           | 5670     | 99.76 | -      | -    | 90.6  | 31.82 | 10.5  | 33.16 | 349 | 127 | P | V |
|                                                  | *                                                                                           | 5670     | 91.55 | -      | -    | 82.39 | 31.82 | 10.5  | 33.16 | 349 | 127 | A | V |
|                                                  |                                                                                             | 5746.275 | 50.69 | -17.51 | 68.2 | 41.25 | 32.09 | 10.54 | 33.19 | 349 | 127 | P | 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 VHT40 (Harmonic @ 3m)**

| WIFI Ant. | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preampl Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|-----------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|----------------|---------|-----------|-----------|---------|
| 1         |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )         | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11ac  |                                                                                             | 11020     | 46.58      | -27.42     | 74         | 46.61      | 39.92          | 16.54     | 56.49          | 100     | 0         | P         | H       |
| VHT40     |                                                                                             | 16530     | 46.72      | -21.48     | 68.2       | 42.5       | 38.76          | 21.19     | 55.73          | 100     | 0         | P         | H       |
| CH 102    |                                                                                             | 11020     | 46.75      | -27.25     | 74         | 46.78      | 39.92          | 16.54     | 56.49          | 100     | 0         | P         | V       |
| 5510MHz   |                                                                                             | 16530     | 46.2       | -22        | 68.2       | 41.98      | 38.76          | 21.19     | 55.73          | 100     | 0         | P         | V       |
| 802.11ac  |                                                                                             | 11100     | 45.3       | -28.7      | 74         | 45.5       | 39.6           | 16.66     | 56.46          | 100     | 0         | P         | H       |
| VHT40     |                                                                                             | 16650     | 46.43      | -21.77     | 68.2       | 41.84      | 39.05          | 21.36     | 55.82          | 100     | 0         | P         | H       |
| CH 110    |                                                                                             | 11100     | 46.07      | -27.93     | 74         | 46.27      | 39.6           | 16.66     | 56.46          | 100     | 0         | P         | V       |
| 5550MHz   |                                                                                             | 16650     | 46.64      | -21.56     | 68.2       | 42.05      | 39.05          | 21.36     | 55.82          | 100     | 0         | P         | V       |
| 802.11ac  |                                                                                             | 11340     | 46.29      | -27.71     | 74         | 46.07      | 39.58          | 17.01     | 56.37          | 100     | 0         | P         | H       |
| VHT40     |                                                                                             | 17010     | 48.53      | -19.67     | 68.2       | 42.8       | 40.01          | 21.85     | 56.13          | 100     | 0         | P         | H       |
| CH 134    |                                                                                             | 11340     | 46.85      | -27.15     | 74         | 46.63      | 39.58          | 17.01     | 56.37          | 100     | 0         | P         | V       |
| 5670MHz   |                                                                                             | 17010     | 48.39      | -19.81     | 68.2       | 42.66      | 40.01          | 21.85     | 56.13          | 100     | 0         | 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.                              | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|----------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| 1                                      |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                                                             | 5459.68   | 58.86      | -15.14     | 74         | 49.99      | 31.74          | 10.24     | 33.11         | 100     | 61        | P         | H       |
|                                        |                                                                                             | 5461.6    | 60.64      | -7.56      | 68.2       | 51.75      | 31.75          | 10.25     | 33.11         | 100     | 61        | P         | H       |
|                                        |                                                                                             | 5460      | 50.85      | -3.15      | 54         | 41.98      | 31.74          | 10.24     | 33.11         | 100     | 61        | P         | H       |
|                                        | *                                                                                           | 5530      | 96.44      | -          | -          | 87.37      | 31.84          | 10.35     | 33.12         | 100     | 61        | P         | H       |
|                                        | *                                                                                           | 5530      | 88.06      | -          | -          | 78.99      | 31.84          | 10.35     | 33.12         | 100     | 61        | A         | H       |
|                                        |                                                                                             | 5734.76   | 50.74      | -17.46     | 68.2       | 41.33      | 32.07          | 10.53     | 33.19         | 100     | 61        | P         | H       |
|                                        |                                                                                             | 5458.96   | 60.02      | -13.98     | 74         | 51.15      | 31.74          | 10.24     | 33.11         | 390     | 118       | P         | V       |
|                                        |                                                                                             | 5468.32   | 60.81      | -7.39      | 68.2       | 51.89      | 31.77          | 10.26     | 33.11         | 390     | 118       | P         | V       |
|                                        |                                                                                             | 5458.96   | 50.63      | -3.37      | 54         | 41.76      | 31.74          | 10.24     | 33.11         | 390     | 118       | A         | V       |
|                                        | *                                                                                           | 5530      | 96.93      | -          | -          | 87.86      | 31.84          | 10.35     | 33.12         | 390     | 118       | P         | V       |
|                                        | *                                                                                           | 5530      | 88.77      | -          | -          | 79.7       | 31.84          | 10.35     | 33.12         | 390     | 118       | A         | V       |
|                                        |                                                                                             | 5759.645  | 51.13      | -17.07     | 68.2       | 41.65      | 32.12          | 10.55     | 33.19         | 390     | 118       | 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 (Harmonic @ 3m)

| WIFI Ant.                              | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|----------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| 1                                      |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                                                             | 11060     | 46.76      | -27.24     | 74         | 46.87      | 39.76          | 16.6      | 56.47         | 100     | 0         | P         | H       |
|                                        |                                                                                             | 16590     | 46.13      | -22.07     | 68.2       | 41.74      | 38.88          | 21.28     | 55.77         | 100     | 0         | P         | H       |
|                                        |                                                                                             | 11060     | 46.69      | -27.31     | 74         | 46.8       | 39.76          | 16.6      | 56.47         | 100     | 0         | P         | V       |
|                                        |                                                                                             | 16590     | 46.17      | -22.03     | 68.2       | 41.78      | 38.88          | 21.28     | 55.77         | 100     | 0         | P         | V       |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |            |            |            |                |           |               |         |           |           |         |



**Band 3 - Straddle Channel**

**Emission below 1GHz**

**WIFI 802.11n VHT80 (LF @ 3m)**

| WIFI                   | Note                                                                       | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Path   | Preamp | Ant    | Table   | Peak  | Pol.  |
|------------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                   |                                                                            |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1                      |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>VHT80<br>LF |                                                                            | 30        | 20.57      | -19.43 | 40         | 28.17  | 24.01    | 0.76   | 32.38  | -      | -       | P     | H     |
|                        |                                                                            | 35.82     | 19.55      | -20.45 | 40         | 29.76  | 21.35    | 0.81   | 32.37  | -      | -       | P     | H     |
|                        |                                                                            | 68.8      | 17.41      | -22.59 | 40         | 36.72  | 11.91    | 1.09   | 32.35  | -      | -       | P     | H     |
|                        |                                                                            | 935.01    | 32.51      | -13.49 | 46         | 29.56  | 29.71    | 4.09   | 31.03  | -      | -       | P     | H     |
|                        |                                                                            | 940.83    | 32.92      | -13.08 | 46         | 29.6   | 30       | 4.1    | 30.97  | -      | -       | P     | H     |
|                        |                                                                            | 953.44    | 33.47      | -12.53 | 46         | 29.29  | 30.72    | 4.13   | 30.86  | 100    | 0       | P     | H     |
|                        |                                                                            | 40.67     | 29.22      | -10.78 | 40         | 42.05  | 18.7     | 0.84   | 32.37  | -      | -       | P     | V     |
|                        |                                                                            | 75.59     | 32.11      | -7.89  | 40         | 50.65  | 12.61    | 1.14   | 32.34  | 100    | 0       | P     | V     |
|                        |                                                                            | 81.41     | 24.4       | -15.6  | 40         | 42.25  | 13.25    | 1.19   | 32.34  | -      | -       | P     | V     |
|                        |                                                                            | 910.76    | 31.8       | -14.2  | 46         | 29.81  | 29.03    | 4.04   | 31.25  | -      | -       | P     | V     |
|                        |                                                                            | 920.46    | 32.21      | -13.79 | 46         | 29.99  | 29.14    | 4.06   | 31.16  | -      | -       | P     | V     |
|                        |                                                                            | 943.74    | 33.8       | -12.2  | 46         | 30.26  | 30.19    | 4.11   | 30.95  | -      | -       | P     | V     |
| Remark                 | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |

## 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>H</b> orizontal or <b>V</b> ertical                                                                                                                   |

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

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1       |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

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

**For Peak Limit @ 2390MHz:**

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

**For Average Limit @ 2390MHz:**

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

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



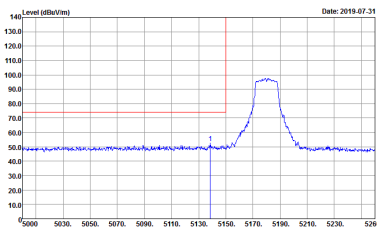
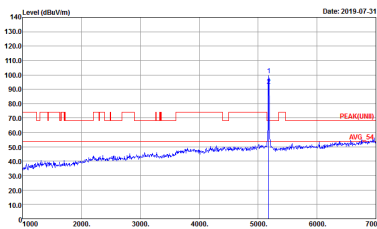
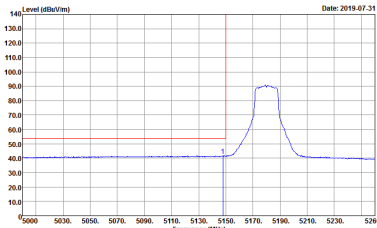
## Appendix D. Radiated Spurious Emission Plots

|                        |                                |                            |            |
|------------------------|--------------------------------|----------------------------|------------|
| <b>Test Engineer :</b> | Bill Kuo, Fu Chen, Troye Hsieh | <b>Temperature :</b>       | 21.6~26°C  |
|                        |                                | <b>Relative Humidity :</b> | 54.6~66.3% |

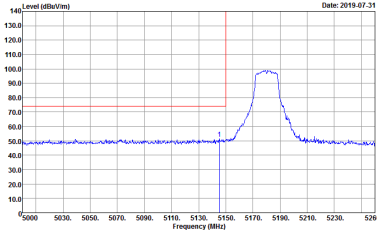
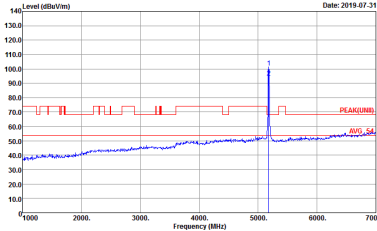
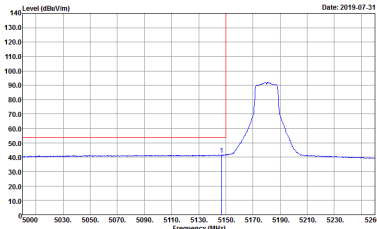
### Note symbol

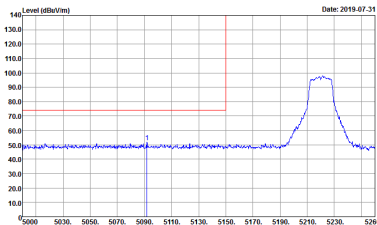
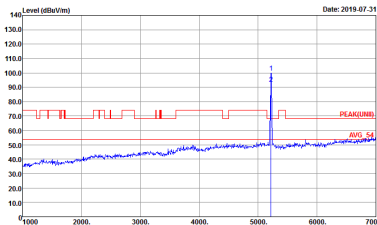
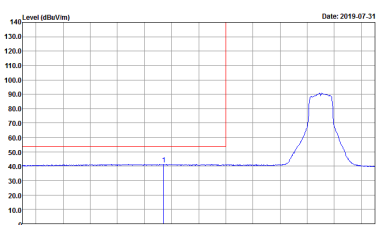
|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |

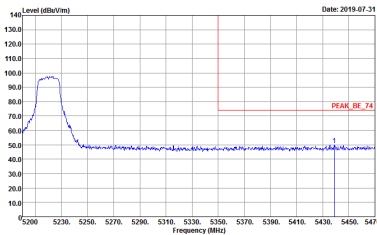
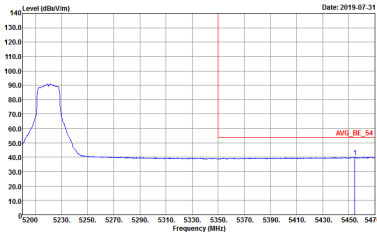
**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

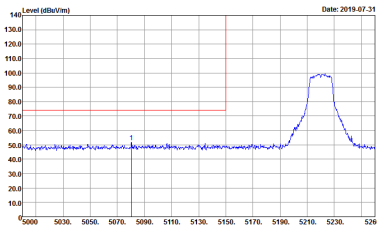
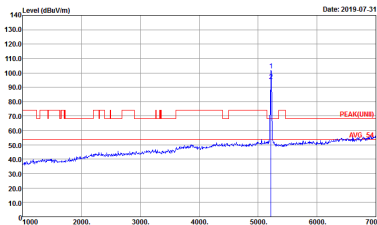
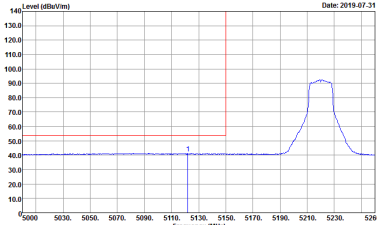
| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                             |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11a CH36 5180MHz                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                             |
| 1           | Horizontal                                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                                                 |
| <b>Peak</b> |  <p>Site : 03CHI1-HY<br/> Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/> RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Detector : Peak<br/> Project : 971613</p> |  <p>Site : 03CHI1-HY<br/> Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/> RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Detector : Peak<br/> Project : 971613</p> |
| <b>Avg.</b> |  <p>Site : 03CHI1-HY<br/> Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/> RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/> Detector : Peak<br/> Project : 971613</p>   | <b>Left blank</b>                                                                                                                                                                                                                                           |

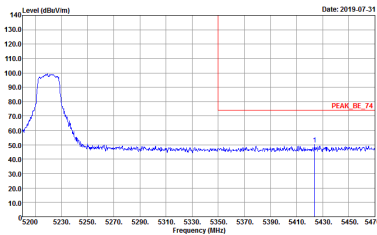
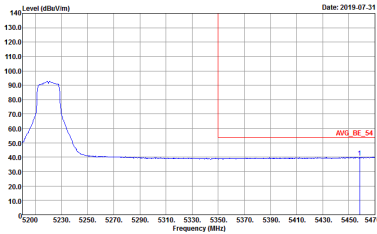


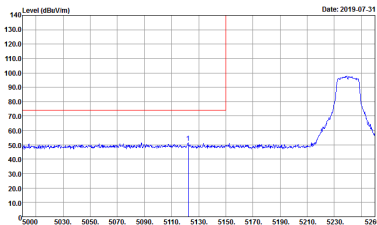
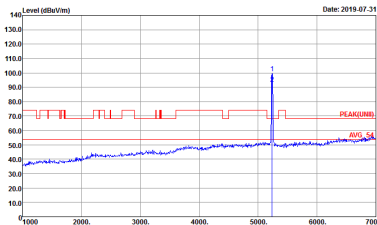
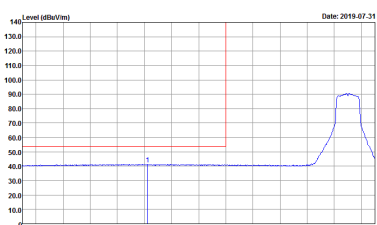
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                          |                                                                                                                                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                                                                                                        |                                                                                                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                   |

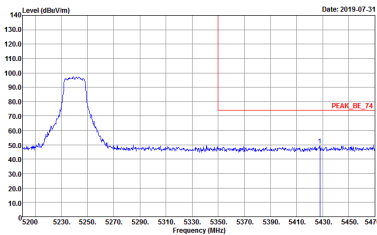
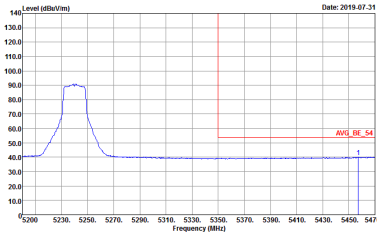
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                     |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                     |
| 1    | Horizontal                                                                                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                                                                                         |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>           Project : 971613         </p>   | Left blank                                                                                                                                                                                                                                                                                          |

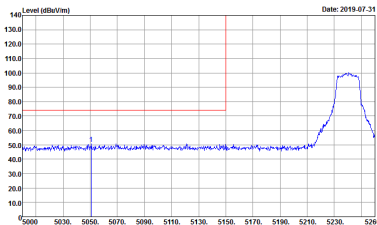
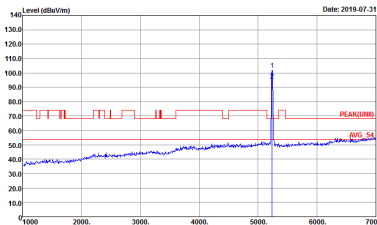
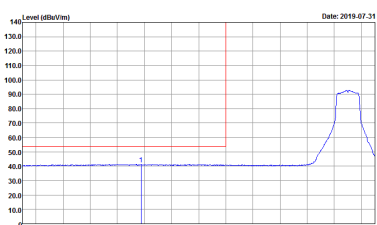
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                 |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                                                                                                                                           |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                         | Fundamental |
| Peak |  <p>           Date: 2019.07.31<br/>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> | Left blank  |
| Avg. |  <p>           Date: 2019.07.31<br/>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>           Project : 971613         </p>   | Left blank  |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                   |
| 1    | Vertical                                                                                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                                                                                       |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>           Project : 971613         </p>   | Left blank                                                                                                                                                                                                                                                                                        |

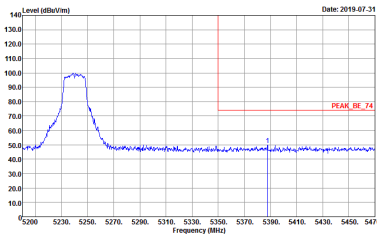
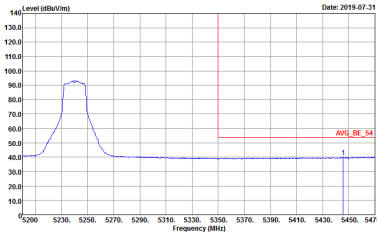
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                            |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                                                                                                      |             |
| 1    | Vertical                                                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Date: 2019.07.31<br/>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Date: 2019.07.31<br/>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | Left blank  |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                            |                                                                                                                                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                     |

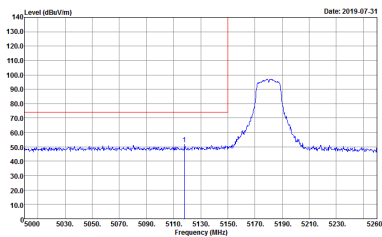
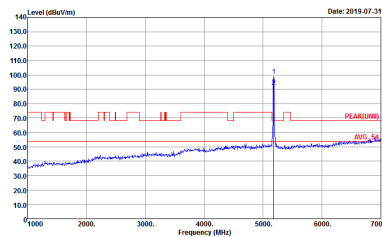
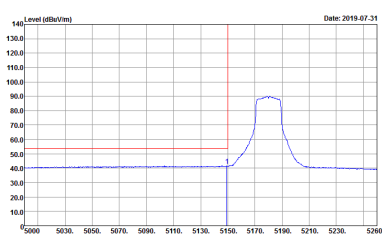
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                 |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                                                                                                           |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                         | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>           Project : 971613         </p>   | Left blank  |

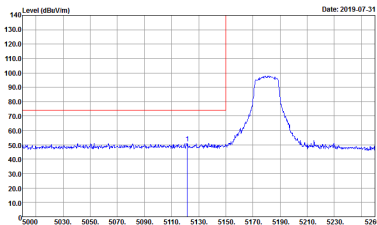
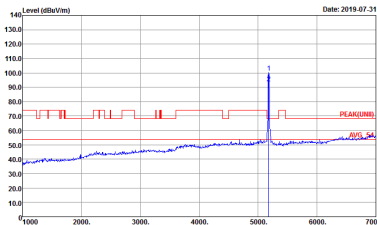
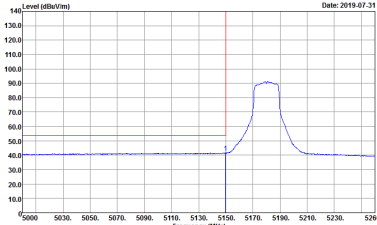
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                          |                                                                                                                                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                                                                                    |                                                                                                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                   |

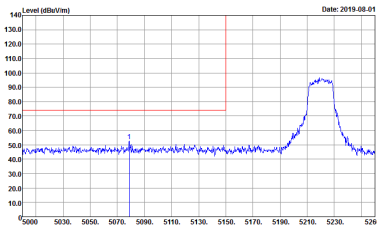
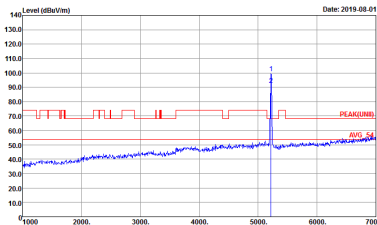
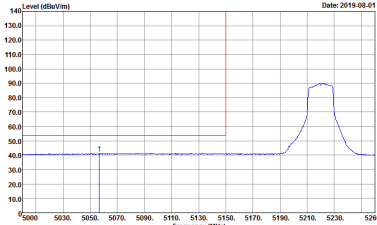


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                            |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                                                                      |             |
| 1    | Vertical                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | Left blank  |

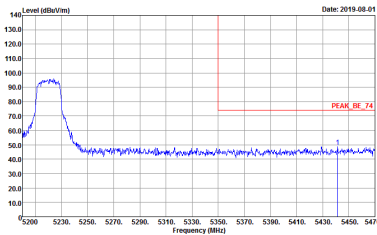
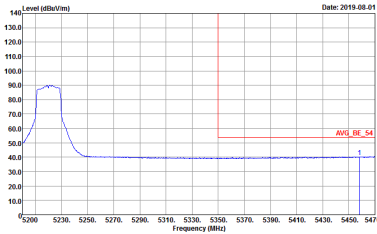
**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

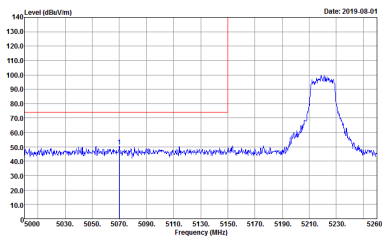
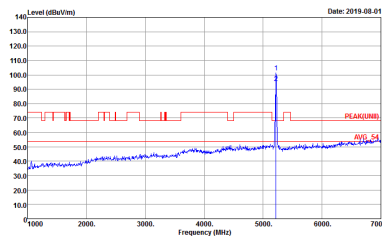
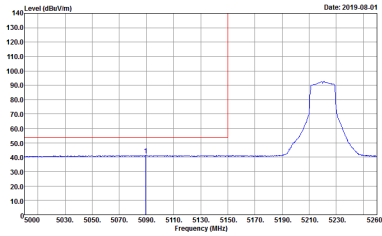
| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                               |                                                                                                                                                                                                                                                   |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT20 CH36 5180MHz                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                   |
| 1           | Horizontal                                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                                       |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/> Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Project : 971613</p> |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL<br/> Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Project : 971613</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/> Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/> Project : 971613</p>   | <b>Left blank</b>                                                                                                                                                                                                                                 |

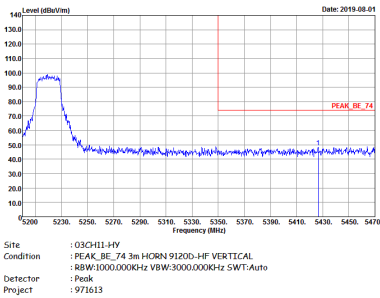
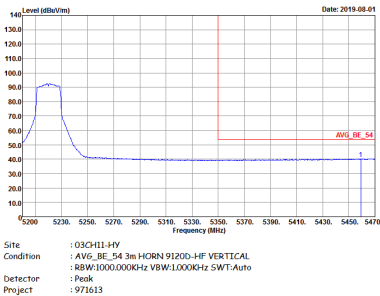
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                          |                                                                                                                                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH36 5180MHz                                                                                                                                                                                                                 |                                                                                                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                   |

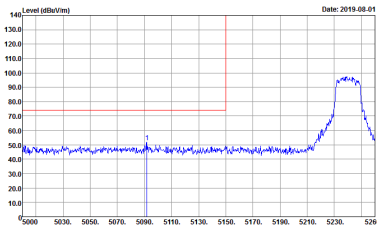
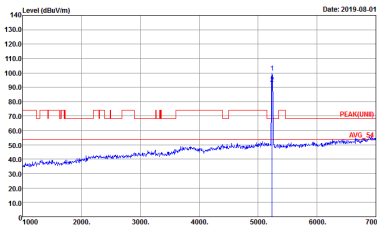
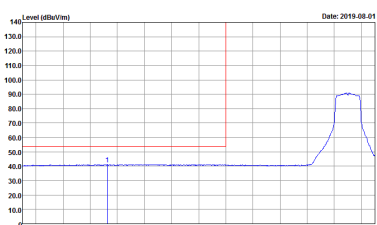
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                            |                                                                                                                                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - L                                                                                                                                                                                                               |                                                                                                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                     |

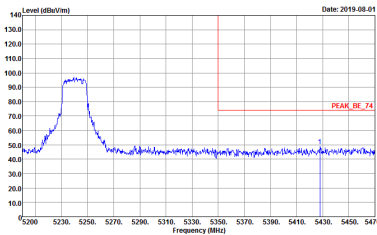
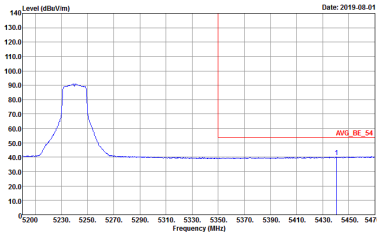


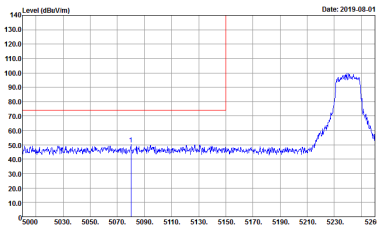
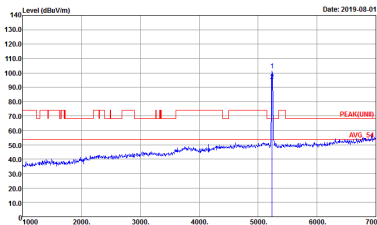
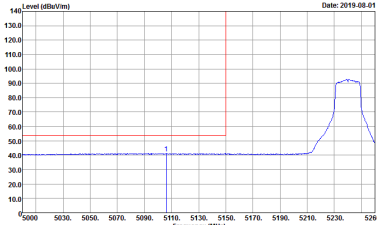
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - R                                                                                                                                                                                                                                 |             |
| 1    | Horizontal                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | Left blank  |

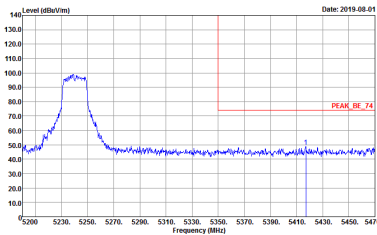
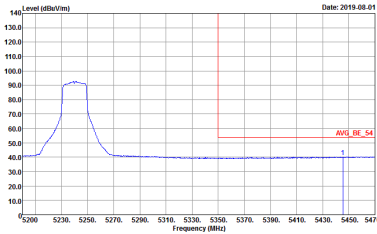
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                          |                                                                                                                                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - L                                                                                                                                                                                                             |                                                                                                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                   |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - R                                                     |             |
| 1    | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

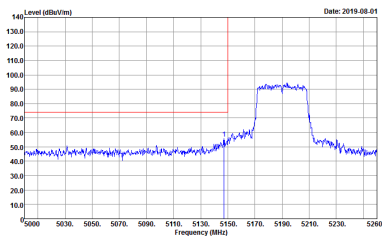
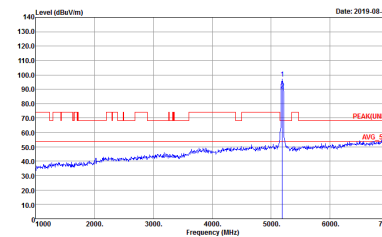
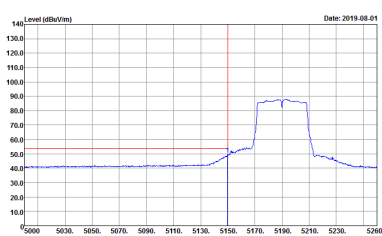
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                            |                                                                                                                                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - L                                                                                                                                                                                                               |                                                                                                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                     |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                         |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - R                                                                                                                                                                            |             |
| 1    | Horizontal                                                                                                                                                                                                 | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> | Left blank  |

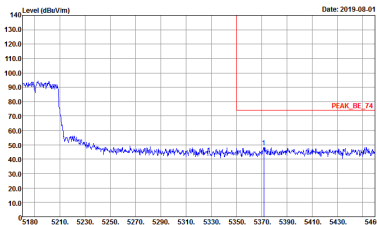
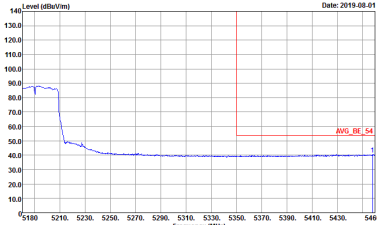
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                          |                                                                                                                                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - L                                                                                                                                                                                                             |                                                                                                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                   |

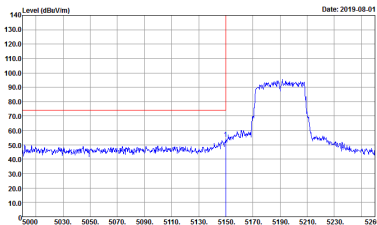
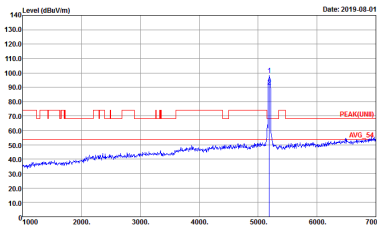
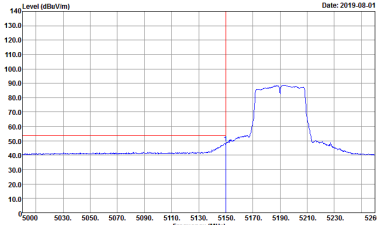
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                            |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - R                                                                                                                                                                                                                               |             |
| 1    | Vertical                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | Left blank  |

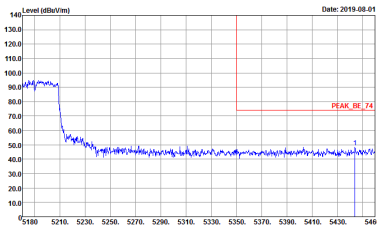
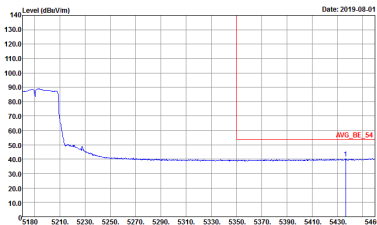
**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

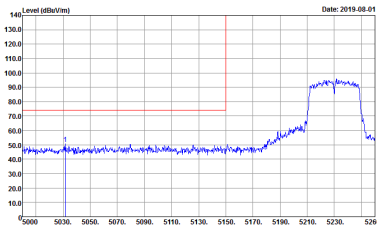
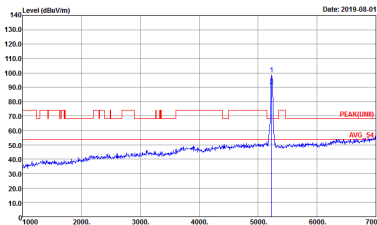
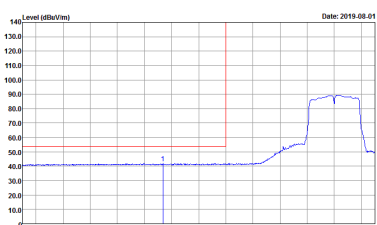
| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT40 CH38 5190MHz - L                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                     |
| 1           | Horizontal                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                         |
| <b>Peak</b> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p>  |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| <b>Avg.</b> |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> | <b>Left blank</b>                                                                                                                                                                                                                                                                                   |

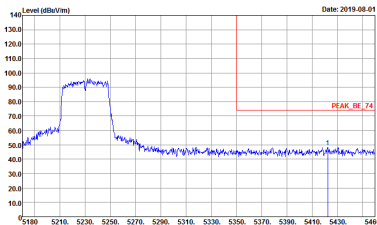
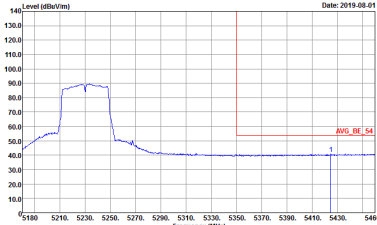


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - R                                                                                                                                                                                                                                 |             |
| 1    | Horizontal                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | Left blank  |

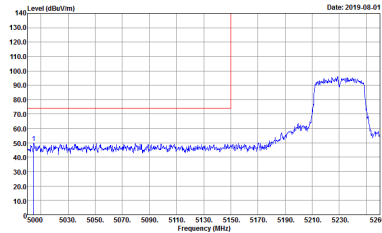
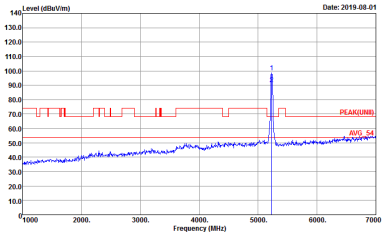
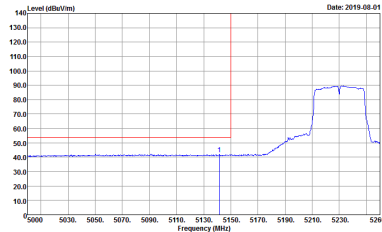
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                           |                                                                                                                                                                                                                                              |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - L                                                                                                                                                                                                              |                                                                                                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> | Left blank                                                                                                                                                                                                                                   |

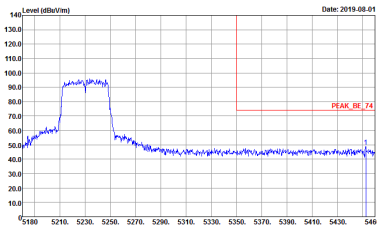
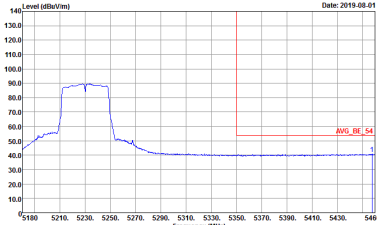
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                           |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - R                                                                                                                                                                                                              |             |
| 1    | Vertical                                                                                                                                                                                                                                     | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> | Left blank  |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                             |                                                                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - L                                                                                                                                                                                                                |                                                                                                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> | Left blank                                                                                                                                                                                                                                     |

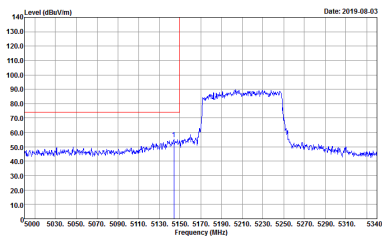
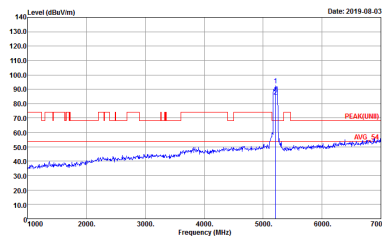
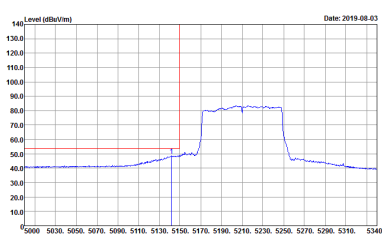
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                         |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - R                                                                                                                                                                            |             |
| 1    | Horizontal                                                                                                                                                                                                 | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> | Left blank  |



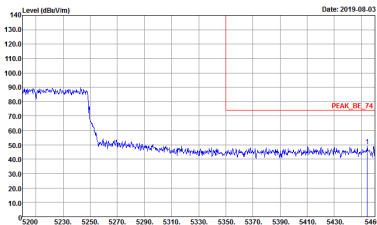
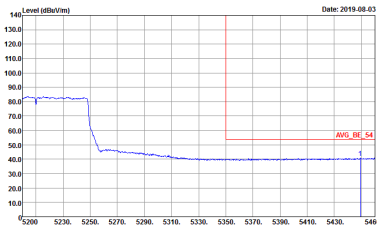
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                            |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - L                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                            |
| 1    | Vertical                                                                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 971613<br/>Date: 2019.08.01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 971613<br/>Date: 2019.08.01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 971613<br/>Date: 2019.08.01</p>   | Left blank                                                                                                                                                                                                                                                                 |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                            |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - R                                                                                                                                                                                                                               |             |
| 1    | Vertical                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | Left blank  |

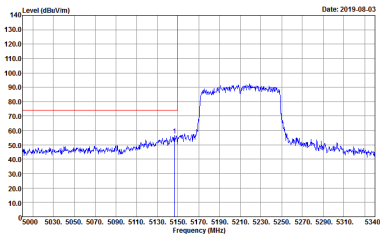
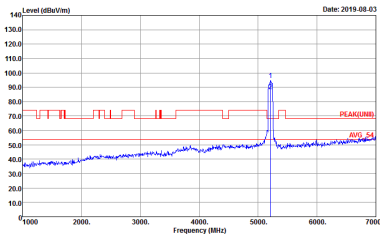
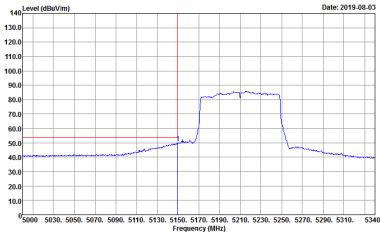
**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

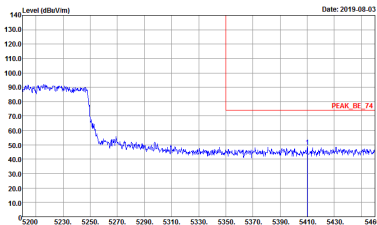
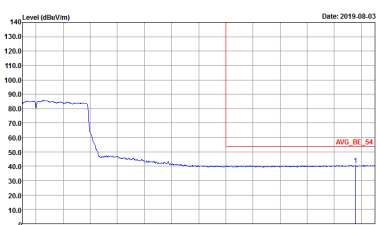
| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT80 CH42 5210MHz - L                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                     |
| 1           | Horizontal                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                         |
| <b>Peak</b> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p>  |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| <b>Avg.</b> |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> | <b>Left blank</b>                                                                                                                                                                                                                                                                                   |



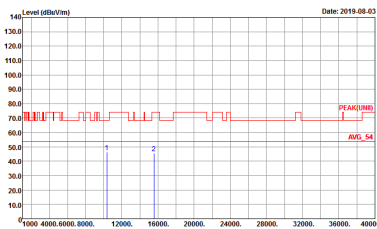
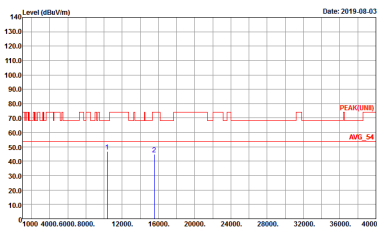
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                                                                                                                 |             |
| 1    | Horizontal                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | Left blank  |



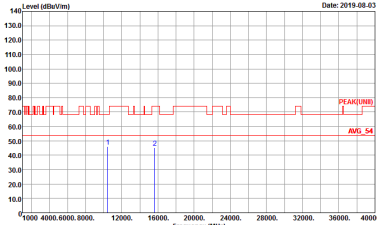
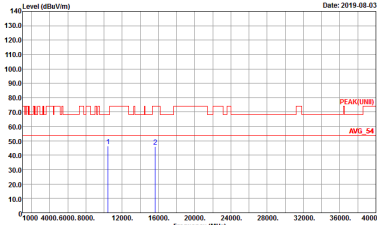
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                        |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - L                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                        |
| 1    | Vertical                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                            |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project : 971613</p></div>   | Left blank                                                                                                                                                                                                                                             |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                           |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                                                                                              |             |
| 1    | Vertical                                                                                                                                                                                                                                     | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> | Left blank  |

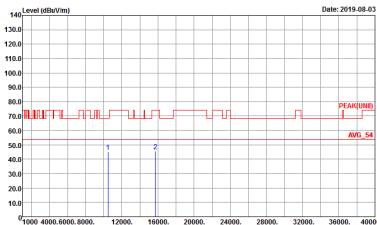
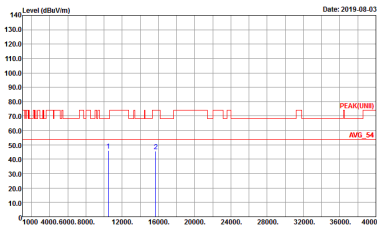
**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH36 5180MHz                                                                                                                                                                                         |                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CHI1-HY<br/> Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/> Detector : Peak<br/> Project : 971613</p> |  <p>Site : 03CHI1-HY<br/> Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/> Detector : Peak<br/> Project : 971613</p> |



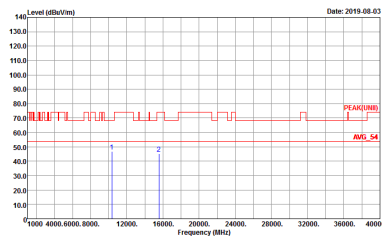
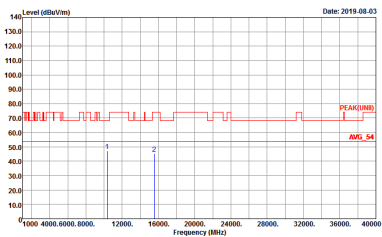
|              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                    |
| ANT          | 802.11a CH44 5220MHz                                                                                                                                                                                                |                                                                                                                                                                                                                    |
| 1            | Horizontal                                                                                                                                                                                                          | Vertical                                                                                                                                                                                                           |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p></div> |



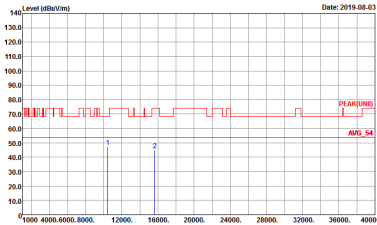
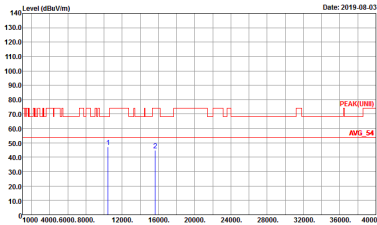
|              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                    |
| ANT          | 802.11a CH48 5240MHz                                                                                                                                                                                                |                                                                                                                                                                                                                    |
| 1            | Horizontal                                                                                                                                                                                                          | Vertical                                                                                                                                                                                                           |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p></div> |

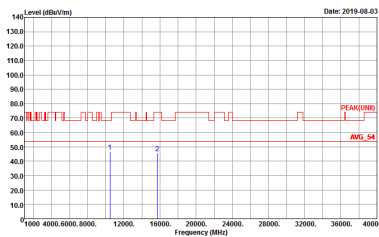
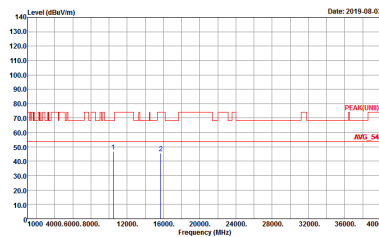


Band 1 5150~5250MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                         |                                                                                                                                                                                                          |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH36 5180MHz                                                                                                                                                                               |                                                                                                                                                                                                          |
| 1            | Horizontal                                                                                                                                                                                                | Vertical                                                                                                                                                                                                 |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p> |
|              |                                                                                                                                                                                                           |                                                                                                                                                                                                          |

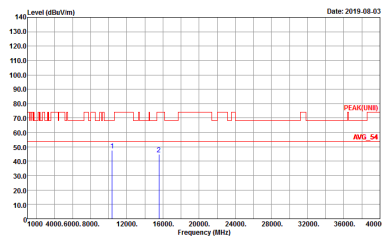
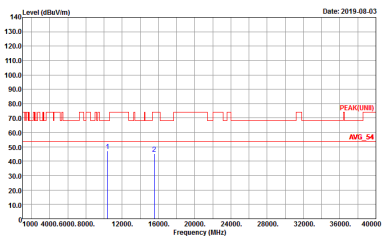


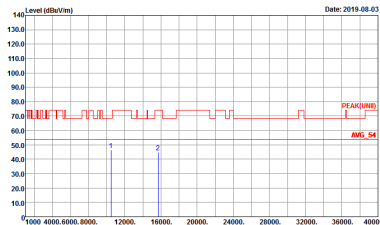
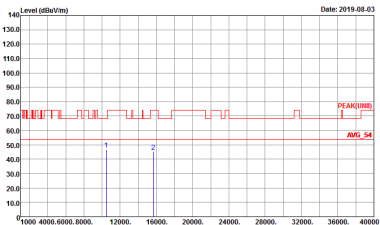
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH44 5220MHz                                                                                                                                                                                         |                                                                                                                                                                                                                    |
| 1            | Horizontal                                                                                                                                                                                                          | Vertical                                                                                                                                                                                                           |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p></div> |

| WIFI                           | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                               |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11ac VHT20 CH48 5240MHz                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                               |
| 1                              | Horizontal                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                      |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |

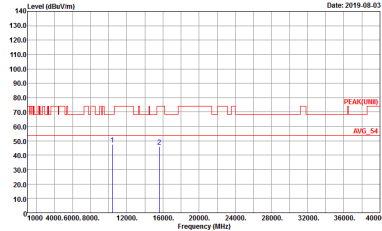
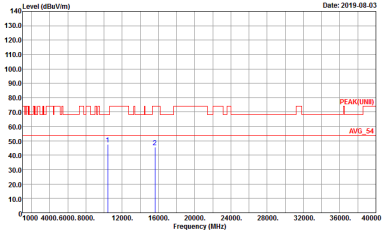


Band 1 5150~5250MHz  
WIFI 802.11ac VHT40 (Harmonic @ 3m)

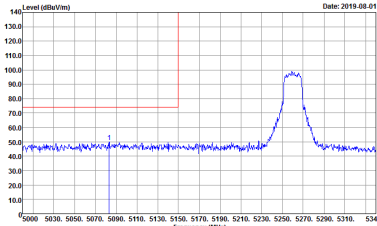
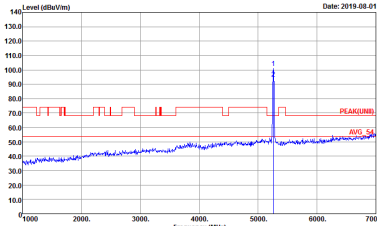
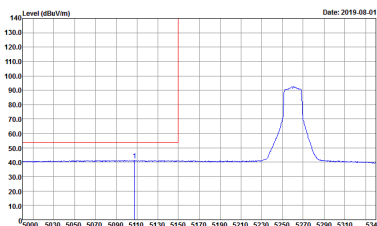
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                         |                                                                                                                                                                                                          |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH38 5190MHz                                                                                                                                                                               |                                                                                                                                                                                                          |
| 1            | Horizontal                                                                                                                                                                                                | Vertical                                                                                                                                                                                                 |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p> |
|              |                                                                                                                                                                                                           |                                                                                                                                                                                                          |

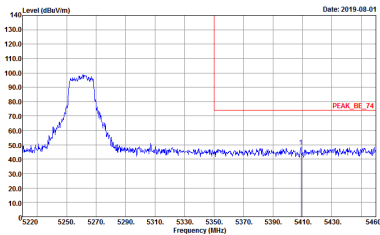
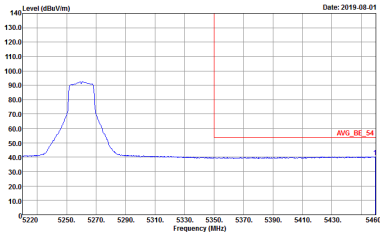
| WIFI                           | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                               |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11ac VHT40 CH46 5230MHz                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                               |
| 1                              | Horizontal                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                      |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |

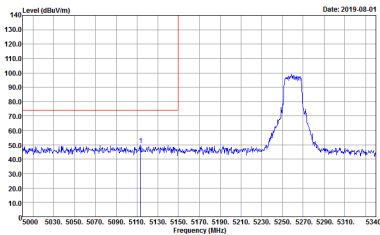
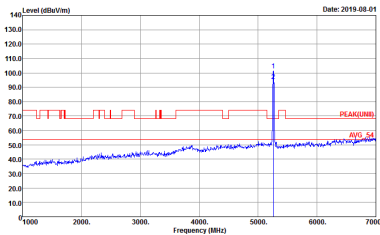
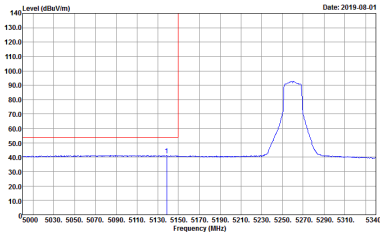
**Band 1 5150~5250MHz**  
**WIFI 802.11ac VHT80 (Harmonic @ 3m)**

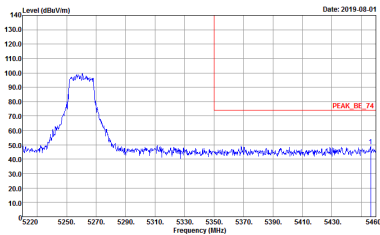
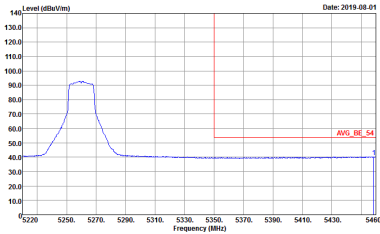
| WIFI                           | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                               |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11ac VHT80 CH42 5210MHz                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                               |
| 1                              | Horizontal                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                      |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |

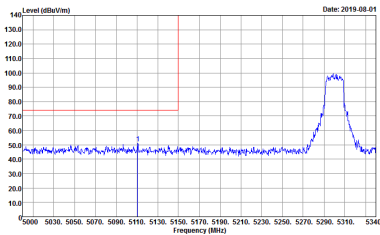
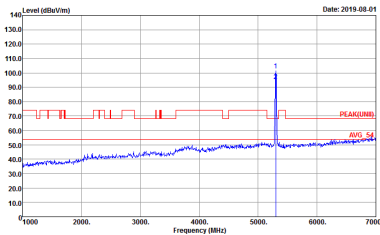
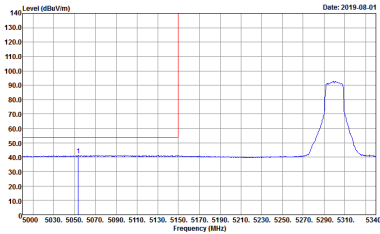
**Band 2 - 5250~5350MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

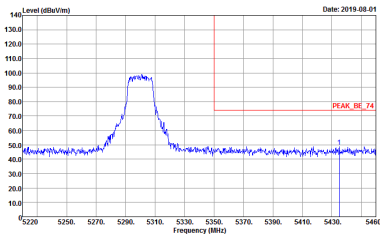
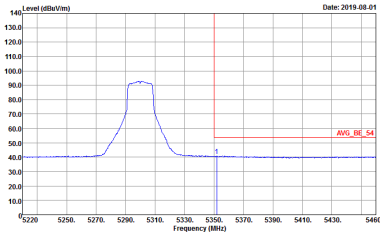
| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                              |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11a CH52 5260MHz - L                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                              |
| 1           | Horizontal                                                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                                                                  |
| <b>Peak</b> |  <p>Site : 03CH11-1HY<br/> Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/> RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Detector : Peak<br/> Project : 971613</p> |  <p>Site : 03CH11-1HY<br/> Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/> RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Detector : Peak<br/> Project : 971613</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-1HY<br/> Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/> RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/> Detector : Peak<br/> Project : 971613</p>    | <b>Left blank</b>                                                                                                                                                                                                                                            |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                                                                                          |             |
| 1    | Horizontal                                                                                                                                                                                                                                                        | Fundamental |
| Peak |  <p>           Site : 03CH11-I-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH11-I-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | Left blank  |

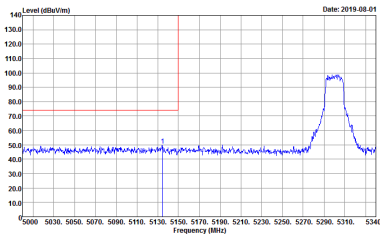
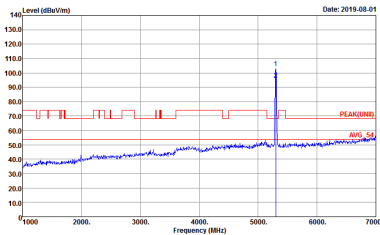
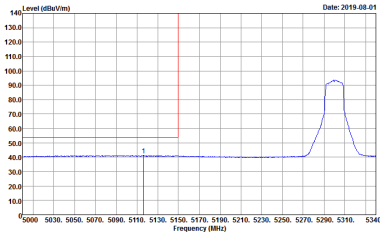
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                          |                                                                                                                                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                                                                                                    |                                                                                                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Project : 971613</p>    | Left blank                                                                                                                                                                                                                                   |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                            |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                                                                                      |             |
| 1    | Vertical                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | Left blank  |

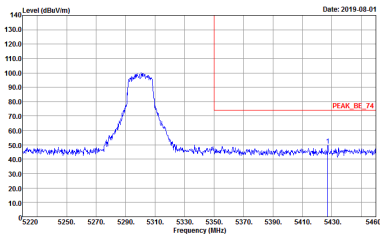
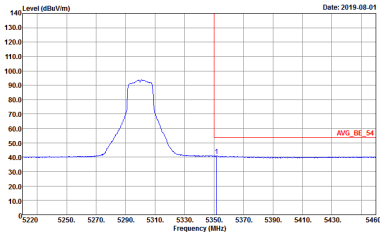
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                     |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                     |
| 1    | Horizontal                                                                                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                                                                                         |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>           Project : 971613         </p>    | Left blank                                                                                                                                                                                                                                                                                          |

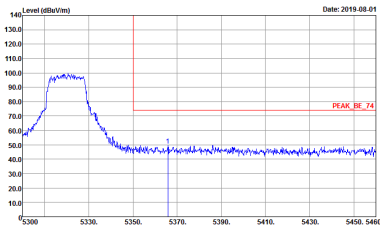
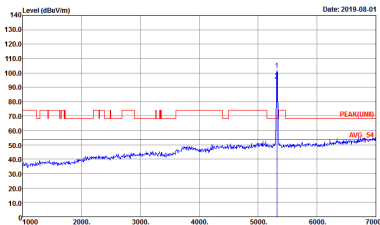
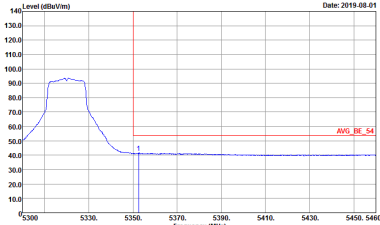
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                         |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                                                                   |             |
| 1    | Horizontal                                                                                                                                                                                                 | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> | Left blank  |

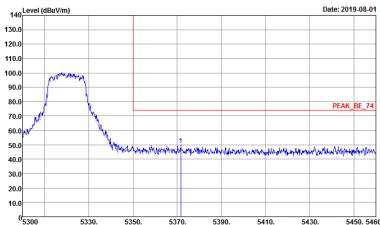
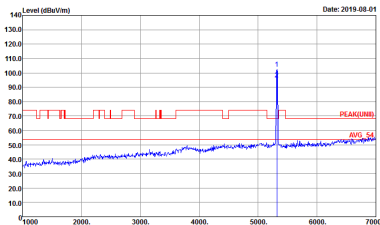
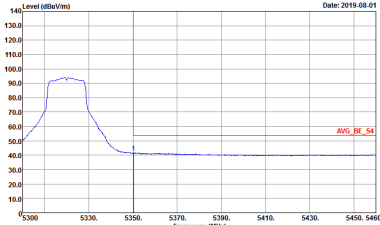


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                        |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                        |
| 1    | Vertical                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                            |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Project : 971613</p></div>    | Left blank                                                                                                                                                                                                                                             |

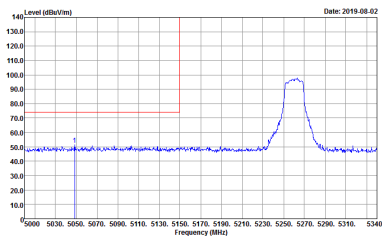
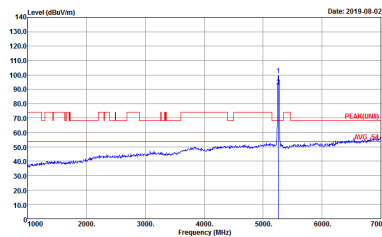
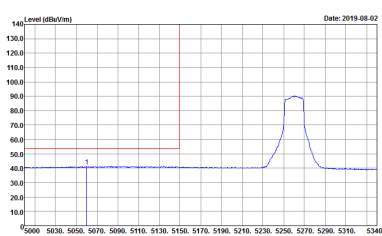


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                            |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                                                                                                                      |             |
| 1    | Vertical                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | Left blank  |

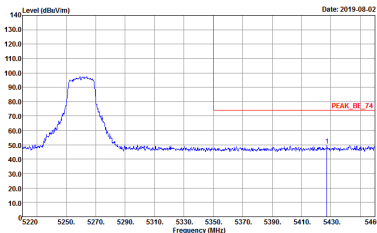
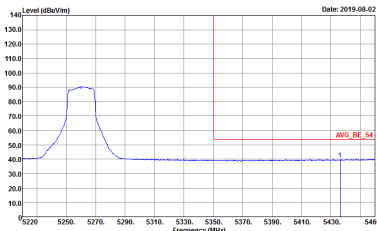
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                            |                                                                                                                                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Project : 971613</p>    | Left blank                                                                                                                                                                                                                                     |

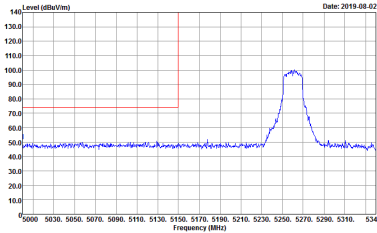
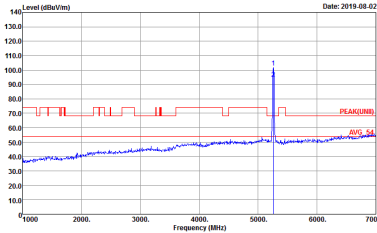
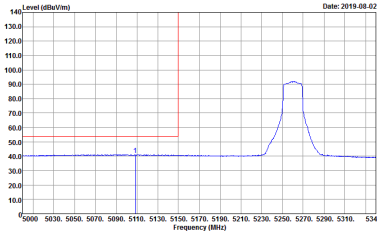
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                          |                                                                                                                                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                                                                                                        |                                                                                                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                  |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                   |

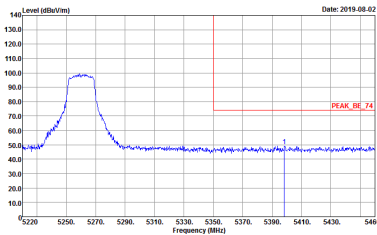
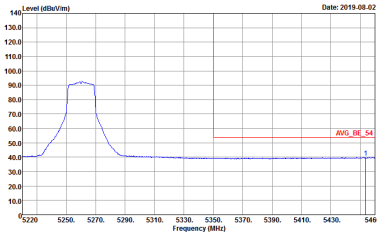
**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

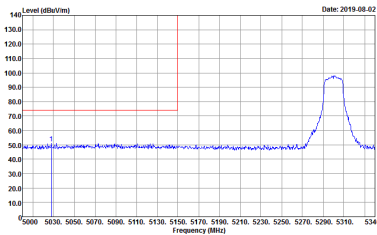
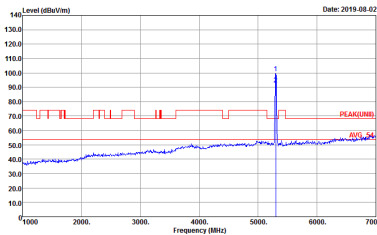
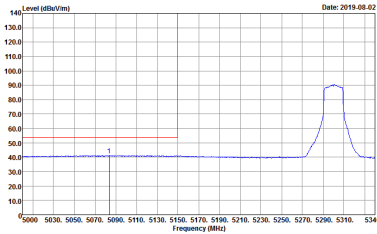
| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                               |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT20 CH52 5260MHz - L                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                               |
| 1           | Horizontal                                                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                                                                   |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/> Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Project : Peak<br/> : 971613</p> |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL<br/> Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Project : Peak<br/> : 971613</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/> Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/> Project : Peak<br/> : 971613</p>   | <b>Left blank</b>                                                                                                                                                                                                                                             |



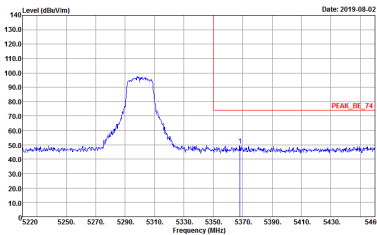
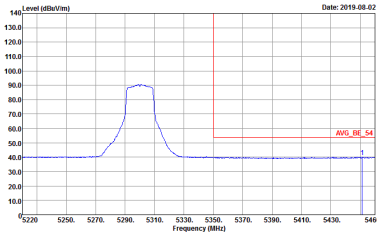
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - R                                                                                                                                                                                                                                 |             |
| 1    | Horizontal                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | Left blank  |

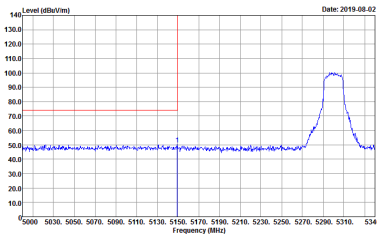
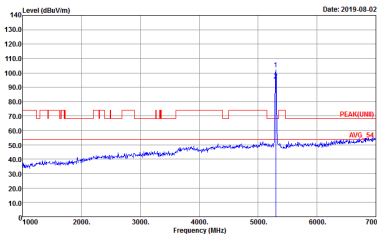
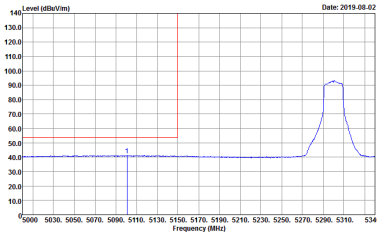
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                       |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - L                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                       |
| 1    | Vertical                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 971613</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 971613</p> | Left blank                                                                                                                                                                                                                                            |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                            |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - R                                                                                                                                                                                                                               |             |
| 1    | Vertical                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | Left blank  |

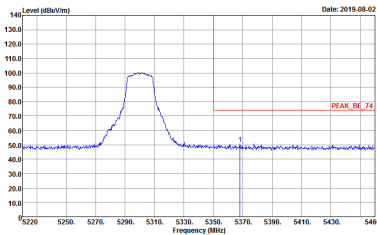
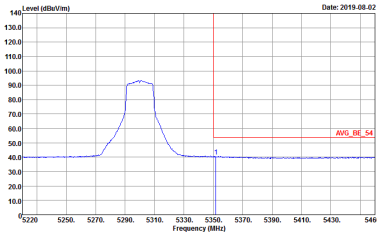
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                            |                                                                                                                                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - L                                                                                                                                                                                                               |                                                                                                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                     |

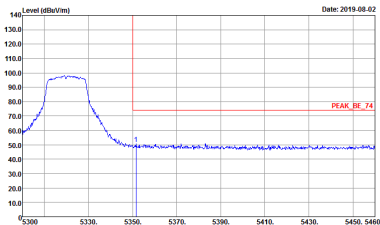
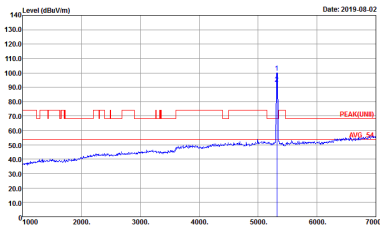
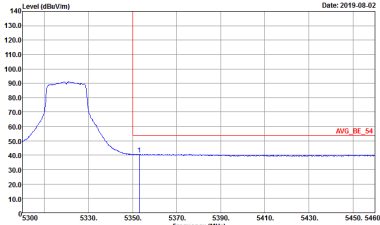


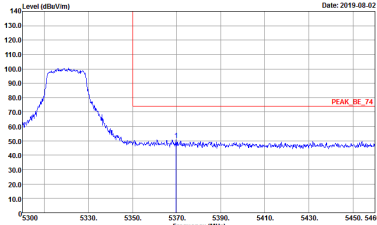
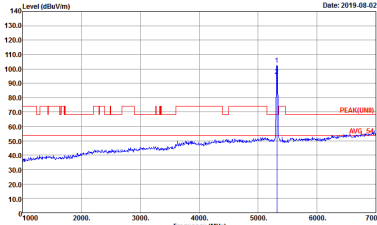
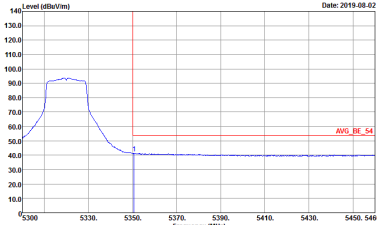
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                              |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - R                                                                                                                                                                                                                                 |             |
| 1    | Horizontal                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | Left blank  |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                   |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - L                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                   |
| 1    | Vertical                                                                                                                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                                                                                                                       |
| Peak |  <p>           Date: 2019.08.02<br/>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |  <p>           Date: 2019.08.02<br/>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| Avg. |  <p>           Date: 2019.08.02<br/>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>           Project : 971613         </p>   | Left blank                                                                                                                                                                                                                                                                                                                        |

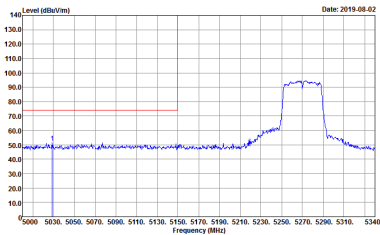
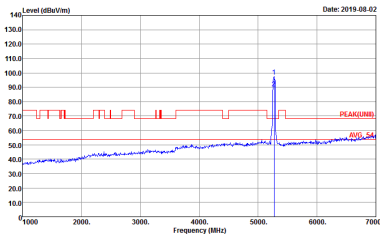
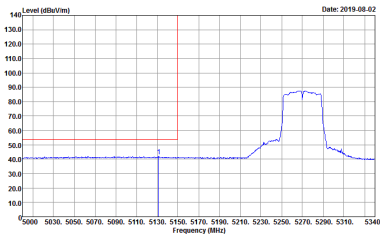


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                          |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - R                                                                                                                                                                                                             |             |
| 1    | Vertical                                                                                                                                                                                                                                    | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank  |

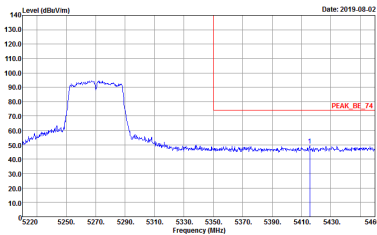
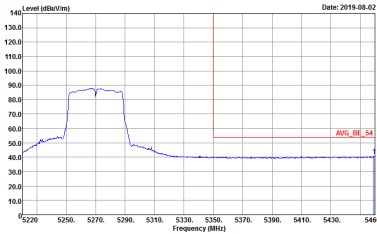
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                         |                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH64 5320MHz                                                                                                                                                                                |                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> | Left blank                                                                                                                                                                                                 |

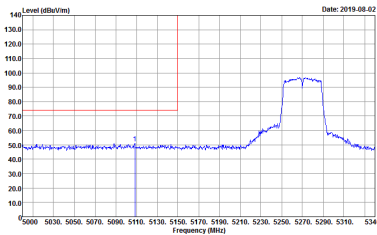
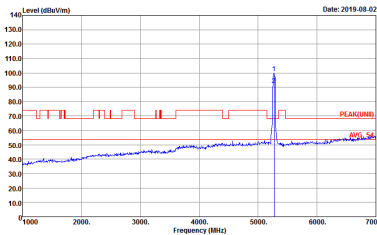
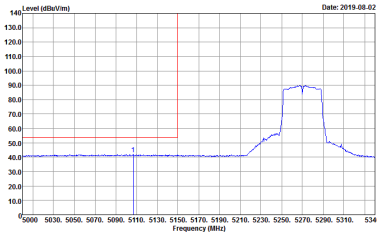
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH64 5320MHz                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                   |
| 1    | Vertical                                                                                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                                                                                       |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>           Project : 971613         </p>   | Left blank                                                                                                                                                                                                                                                                                        |

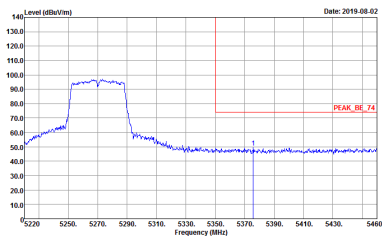
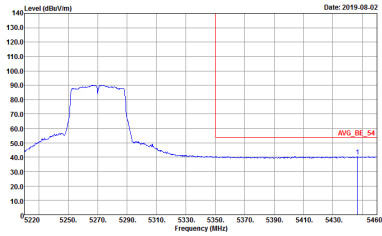
**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

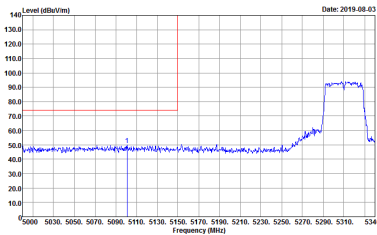
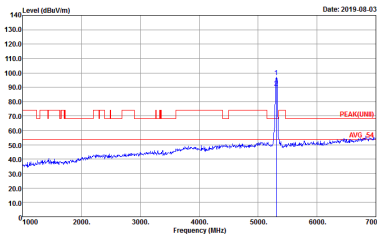
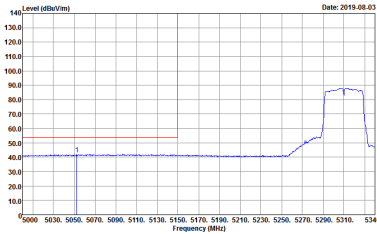
| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                |                                                                                                                                                                                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT40 CH54 5270MHz - L                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                   |
| 1           | Horizontal                                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                                                       |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/> Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Project : 971613</p>  |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/> Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Project : 971613</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/> Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Project : 971613</p> | <b>Left blank</b>                                                                                                                                                                                                                                 |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                 |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH54 5270MHz - R                                                                                                                                                                                                                                                                    |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                         | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>           Project : 971613         </p>   | Left blank  |

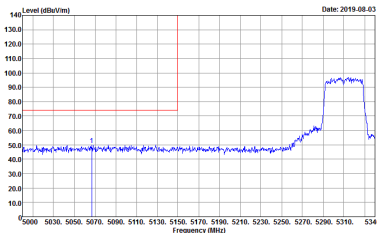
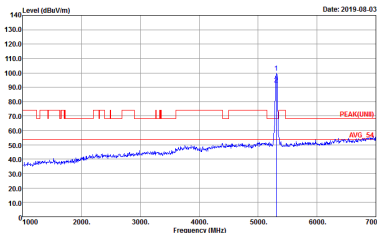
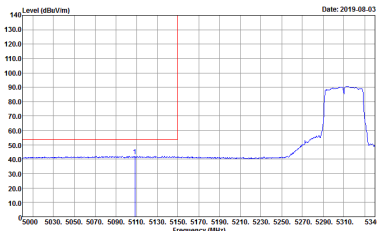
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH54 5270MHz - L                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                   |
| 1    | Vertical                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                       |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p>  |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> | Left blank                                                                                                                                                                                                                                                                                        |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH54 5270MHz - R                                                                                                                                                                                                                                                                   |             |
| 1    | Vertical                                                                                                                                                                                                                                                                                          | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> | Left blank  |

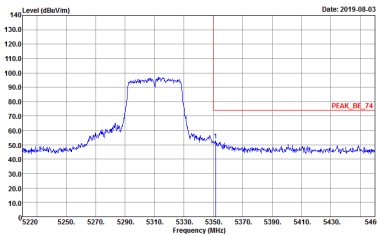
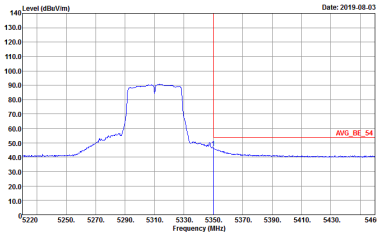
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH62 5310MHz - L                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                     |
| 1    | Horizontal                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                         |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p>  |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> | Left blank                                                                                                                                                                                                                                                                                          |



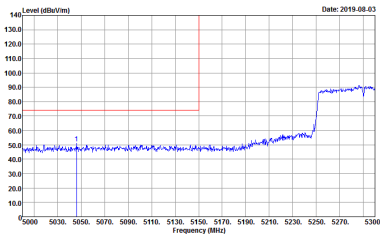
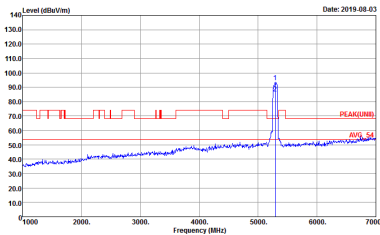
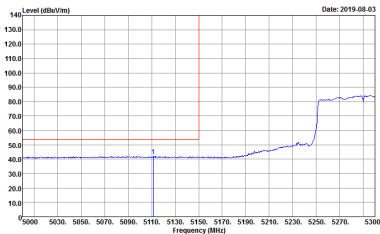
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m |             |
|------|------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH62 5310MHz - R    |             |
| 1    | Horizontal                         | Fundamental |
| Peak |                                    | Left blank  |
| Avg. |                                    | Left blank  |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH62 5310MHz - L                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                   |
| 1    | Vertical                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                       |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p>  |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> | Left blank                                                                                                                                                                                                                                                                                        |

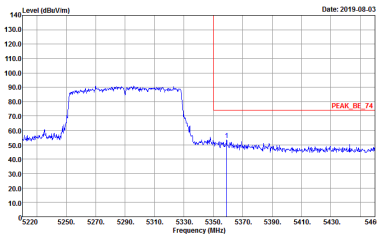
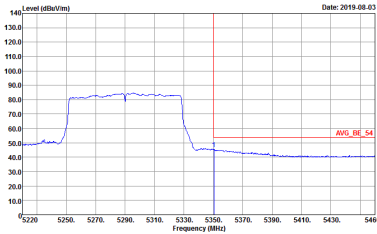


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                       |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH62 5310MHz - R                                                                                                                                                                          |             |
| 1    | Vertical                                                                                                                                                                                                 | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p> | Left blank  |

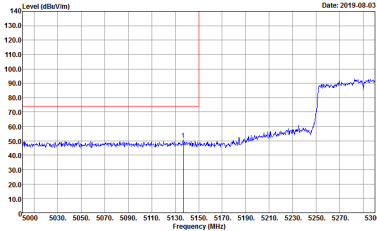
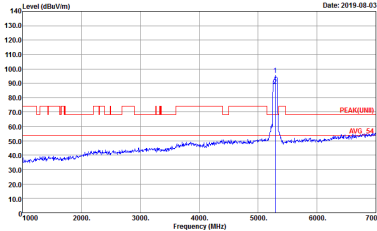
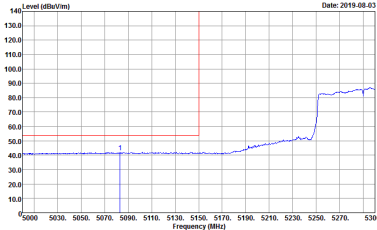
**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                            |                                                                                                                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT80 CH58 5290MHz - L                                                                                                                                                                               |                                                                                                                                                                                                               |
| 1           | Horizontal                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                   |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/> Detector : Peak<br/> Project : 971613</p>  |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL<br/> Detector : Peak<br/> Project : 971613</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/> Detector : Peak<br/> Project : 971613</p> | <b>Left blank</b>                                                                                                                                                                                             |

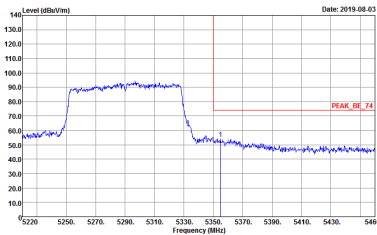
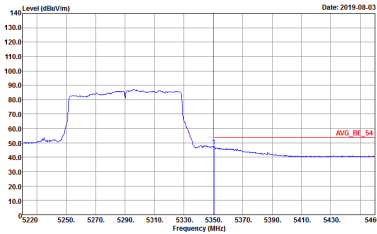


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                         |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - R                                                                                                                                                                            |             |
| 1    | Horizontal                                                                                                                                                                                                 | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p>  | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> | Left blank  |

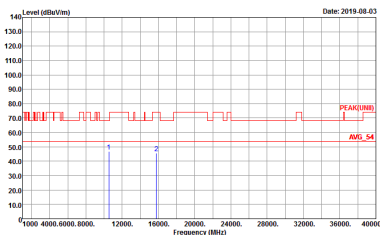
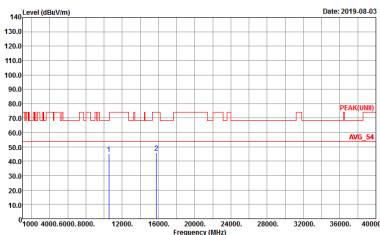


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                        |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - L                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                        |
| 1    | Vertical                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                            |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project : 971613</p></div>   | Left blank                                                                                                                                                                                                                                             |

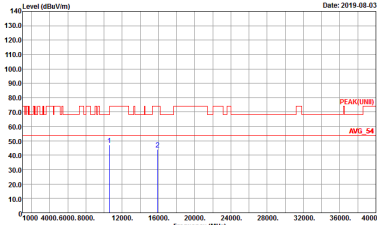
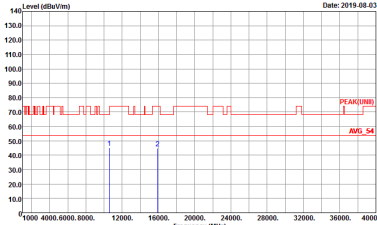


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                          |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - R                                                                                                                                                                                                             |             |
| 1    | Vertical                                                                                                                                                                                                                                    | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank  |

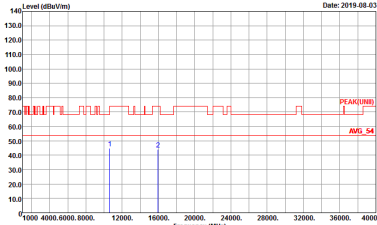
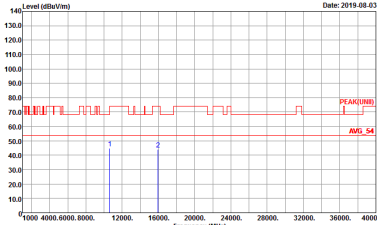
**Band 2 - 5250~5350MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI                       | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                        | 802.11a CH52 5260MHz                                                                                                                                                                                         |                                                                                                                                                                                                             |
| 1                          | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| <b>Peak</b><br><b>Avg.</b> |  <p>Site : 03CHI1-HY<br/> Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/> Detector : Peak<br/> Project : 971613</p> |  <p>Site : 03CHI1-HY<br/> Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/> Detector : Peak<br/> Project : 971613</p> |
|                            |                                                                                                                                                                                                              |                                                                                                                                                                                                             |



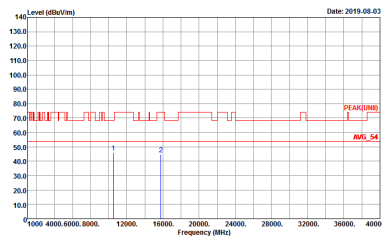
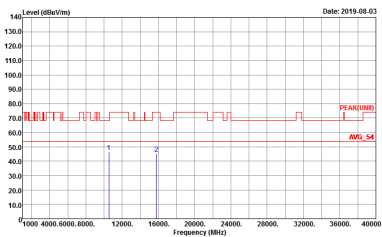
|              |                                                                                                                                                                                                           |                                                                                                                                                                                                          |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                         |                                                                                                                                                                                                          |
| ANT          | 802.11a CH60 5300MHz                                                                                                                                                                                      |                                                                                                                                                                                                          |
| 1            | Horizontal                                                                                                                                                                                                | Vertical                                                                                                                                                                                                 |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p> |



|              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                    |
| ANT          | 802.11a CH64 5320MHz                                                                                                                                                                                                |                                                                                                                                                                                                                    |
| 1            | Horizontal                                                                                                                                                                                                          | Vertical                                                                                                                                                                                                           |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p></div> |



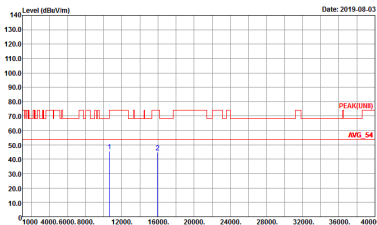
Band 2 5250~5350MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                         |                                                                                                                                                                                                          |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH52 5260MHz                                                                                                                                                                               |                                                                                                                                                                                                          |
| 1            | Horizontal                                                                                                                                                                                                | Vertical                                                                                                                                                                                                 |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p> |
|              |                                                                                                                                                                                                           |                                                                                                                                                                                                          |



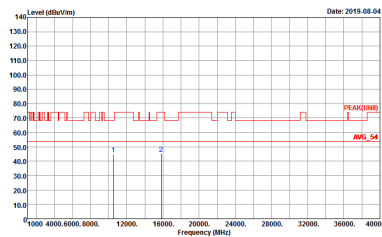
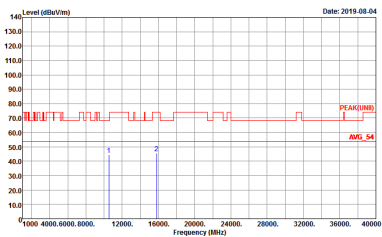
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                       |                                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH60 5300MHz                                                                                             |                                                                                                                       |
| 1            | Horizontal                                                                                                              | Vertical                                                                                                              |
| Peak<br>Avg. | <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> | <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p> |



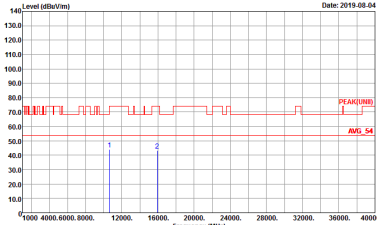
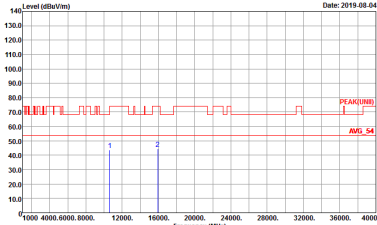
|              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                    |
| ANT          | 802.11ac VHT20 CH64 5320MHz                                                                                                                                                                                         |                                                                                                                                                                                                                    |
| 1            | Horizontal                                                                                                                                                                                                          | Vertical                                                                                                                                                                                                           |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p></div> |



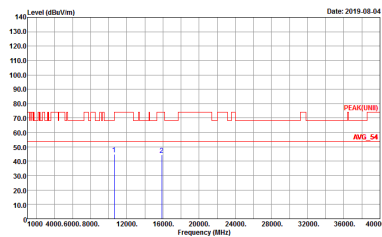
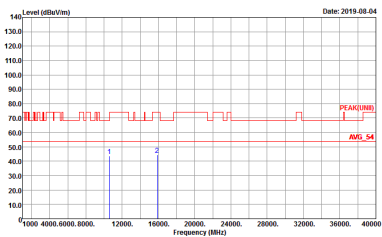
Band 2 5250~5350MHz  
WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                         |                                                                                                                                                                                                          |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH54 5270 MHz                                                                                                                                                                              |                                                                                                                                                                                                          |
| 1            | Horizontal                                                                                                                                                                                                | Vertical                                                                                                                                                                                                 |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p> |
|              |                                                                                                                                                                                                           |                                                                                                                                                                                                          |

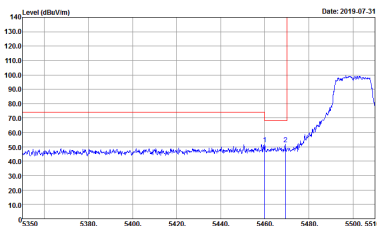
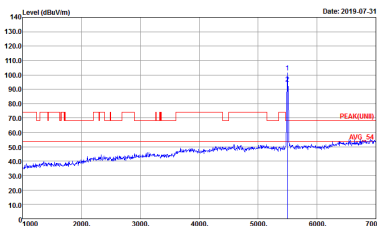
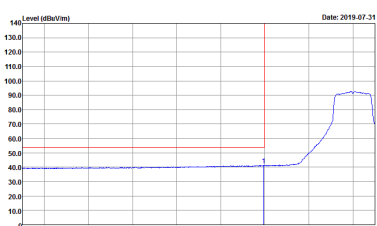


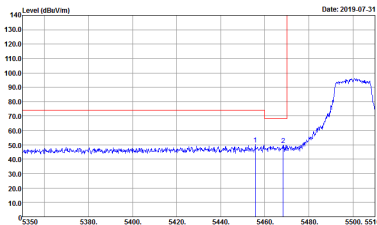
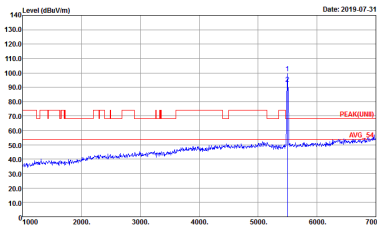
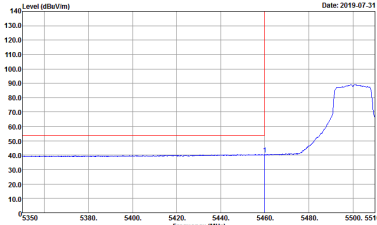
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH62 5310 MHz                                                                                                                                                                                        |                                                                                                                                                                                                                    |
| 1            | Horizontal                                                                                                                                                                                                          | Vertical                                                                                                                                                                                                           |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p></div> |

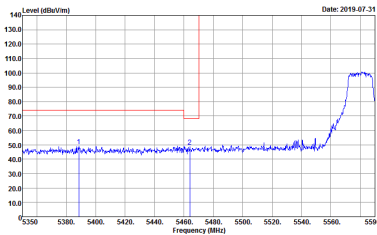
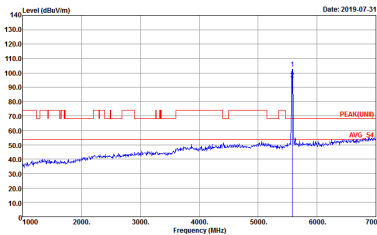
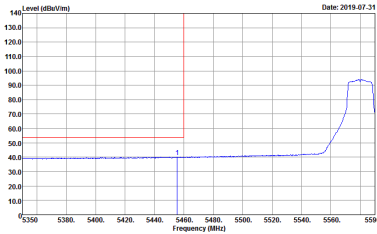
**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT80 (Harmonic @ 3m)**

| WIFI                           | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                               |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11ac VHT80 CH58 5290MHz                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                               |
| 1                              | Horizontal                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                      |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |

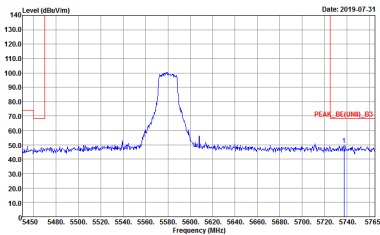
**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

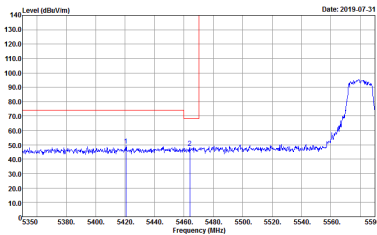
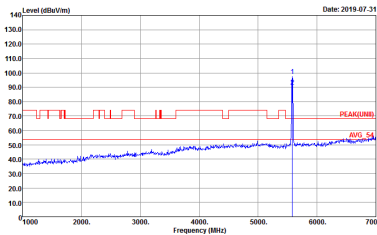
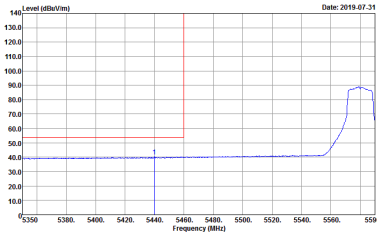
| WIFI        | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                              |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11a CH100 5500MHz                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                              |
| 1           | Horizontal                                                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                                                                  |
| <b>Peak</b> |  <p>Site : 03CHI1-HY<br/> Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/> RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Detector : Peak<br/> Project : 971613</p> |  <p>Site : 03CHI1-HY<br/> Condition : PEAK(UNIT1) 3m HORN 9120D-HF HORIZONTAL<br/> RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Detector : Peak<br/> Project : 971613</p> |
| <b>Avg.</b> |  <p>Site : 03CHI1-HY<br/> Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/> RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/> Detector : Peak<br/> Project : 971613</p>   | <b>Left blank</b>                                                                                                                                                                                                                                            |

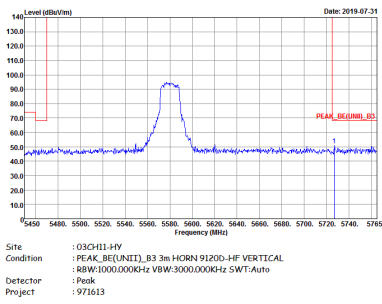
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                    |
| 1    | Vertical                                                                                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                                                                                        |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT1) 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>           Project : 971613         </p>   | Left blank                                                                                                                                                                                                                                                                                         |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                 |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT1) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                      |

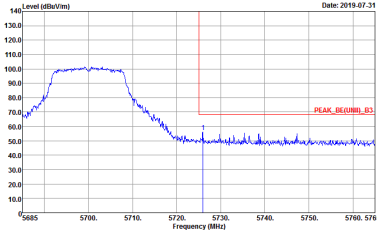
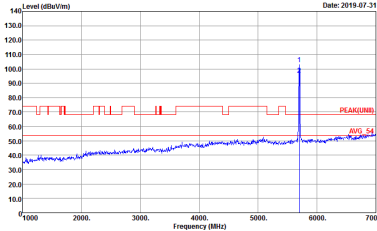


|      |                                                                                                                                                                                                                                                                |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                             |             |
| ANT  | 802.11a CH116 5580MHz - R                                                                                                                                                                                                                                      |             |
| 1    | Horizontal                                                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                 |                                                                                                                                                                                                                                               |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                                                                                                          |                                                                                                                                                                                                                                               |
| 1    | Vertical                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                   |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT1) 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                    |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                         |             |
| 1    | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |

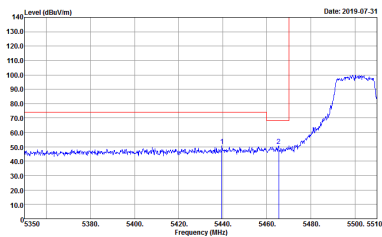
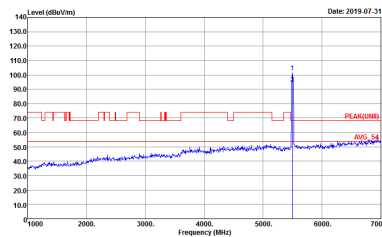
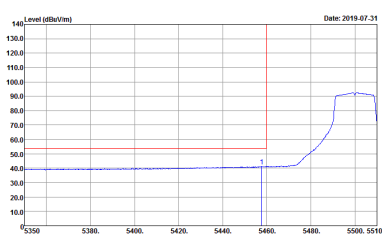


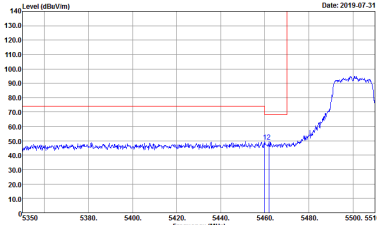
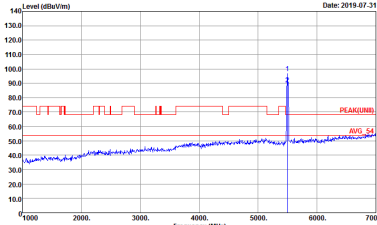
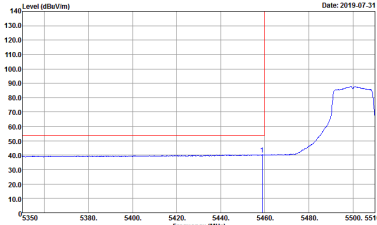
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                             |
| 1    | Horizontal                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                 |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> |

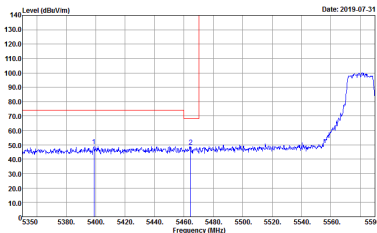
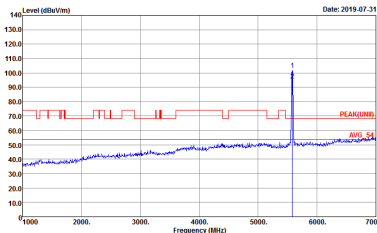
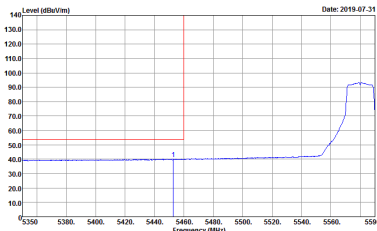


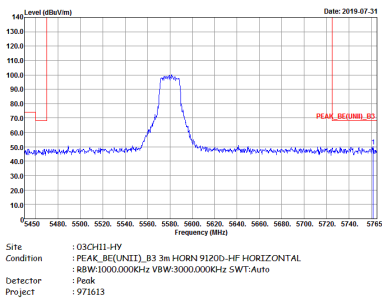
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                              |                                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                           |                                                                                                                                                              |
| 1    | Vertical                                                                                                                                                        | Fundamental                                                                                                                                                  |
| Peak | <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> | <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |

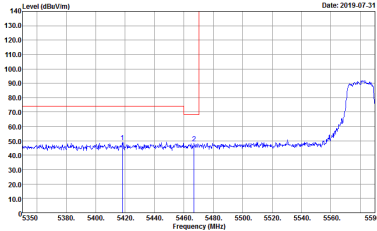
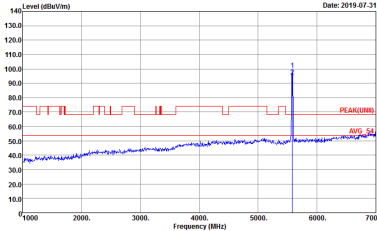
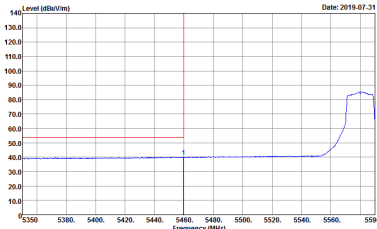
**Band 3 5470~5725MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

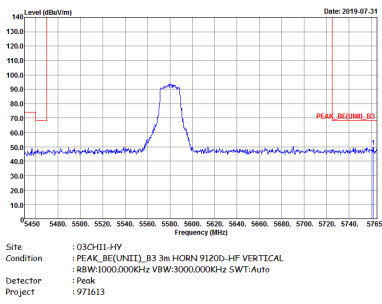
| WIFI        | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT20 CH100 5500MHz                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                  |
| 1           | Horizontal                                                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                                                      |
| <b>Peak</b> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p>  |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT1) 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |
| <b>Avg.</b> |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> | <b>Left blank</b>                                                                                                                                                                                                                                                |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH100 5500MHz                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                    |
| 1    | Vertical                                                                                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                                                                                        |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT1) 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>           Project : 971613         </p>   | Left blank                                                                                                                                                                                                                                                                                         |

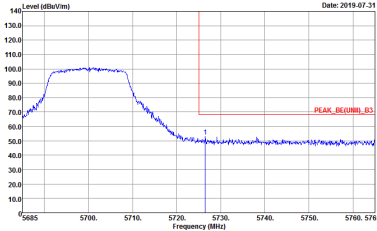
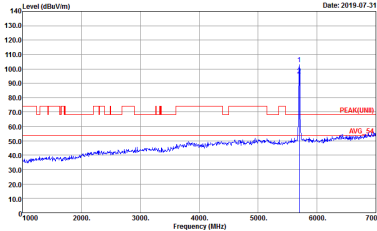
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                 |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - L                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT1) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                      |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - R                                                  |             |
| 1    | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

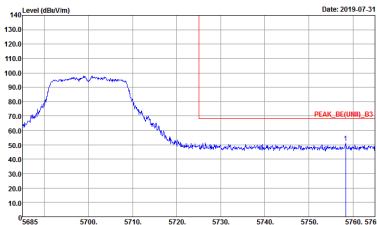
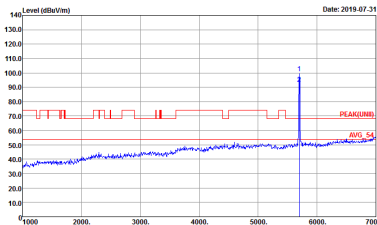
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                 |                                                                                                                                                                                                                                               |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - L                                                                                                                                                                                                                   |                                                                                                                                                                                                                                               |
| 1    | Vertical                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                   |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT1) 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : 971613</p>   | Left blank                                                                                                                                                                                                                                    |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - R                                                  |             |
| 1    | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |

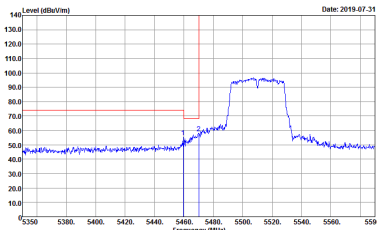
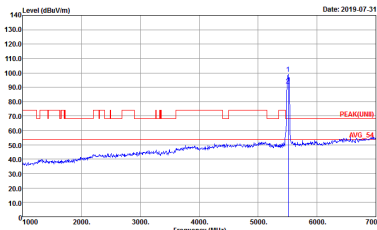
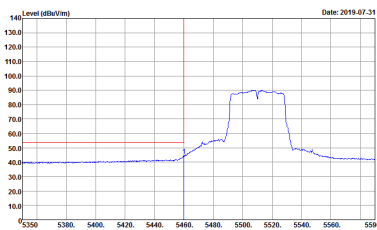


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH140 5700MHz                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                             |
| 1    | Horizontal                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                 |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> |

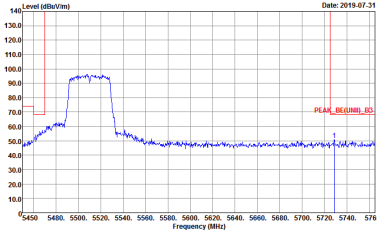


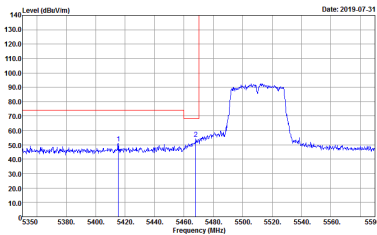
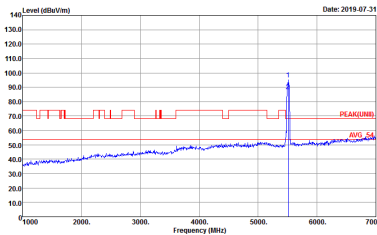
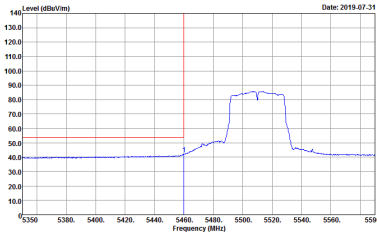
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                           |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH140 5700MHz                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                           |
| 1    | Vertical                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> |

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

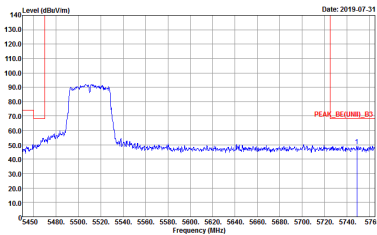
| WIFI        | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT40 CH102 5510MHz - L                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                |
| 1           | Horizontal                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                    |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/> Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Project : Peak<br/> : 971613</p>  |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNIT1) 3m HORN 9120D-HF HORIZONTAL<br/> Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Project : Peak<br/> : 971613</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/> Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Project : Peak<br/> : 971613</p> | <b>Left blank</b>                                                                                                                                                                                                                                              |

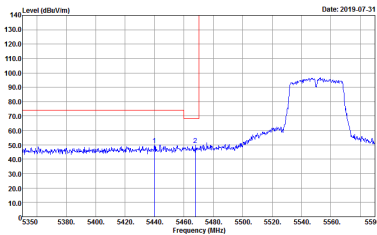
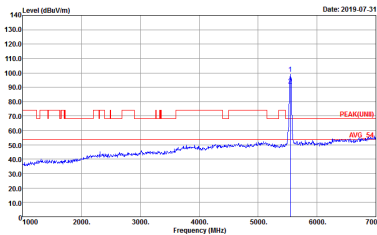
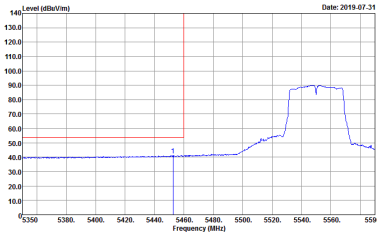


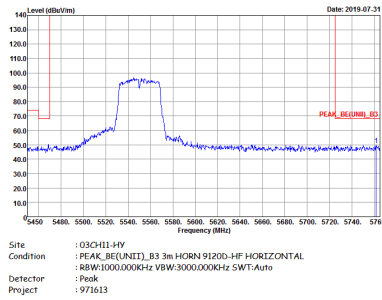
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                             |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - R                                                                                                                                                                                                                               |             |
| 1    | Horizontal                                                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CHI1-HY<br/>Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> | Left blank  |

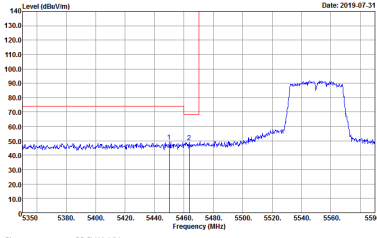
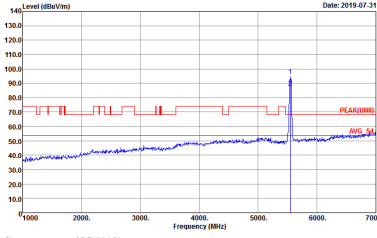
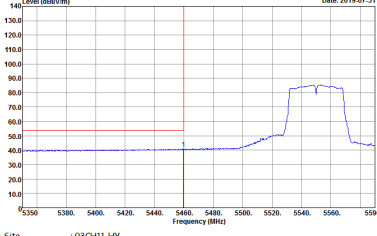
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                  |                                                                                                                                                                                                                                               |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - L                                                                                                                                                                                                                    |                                                                                                                                                                                                                                               |
| 1    | Vertical                                                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                                                   |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT1) 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> | Left blank                                                                                                                                                                                                                                    |

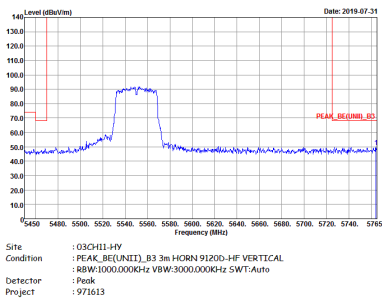


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                            |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - R                                                                                                                                                                                                                              |             |
| 1    | Vertical                                                                                                                                                                                                                                                      | Fundamental |
| Peak | <div><p>Site : 03CHI1-HY<br/>Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWFT:Auto<br/>Project : 971613</p></div> | Left blank  |

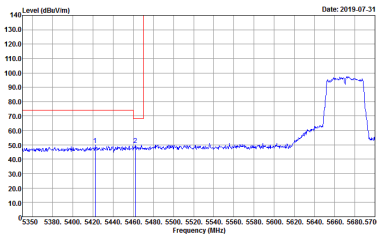
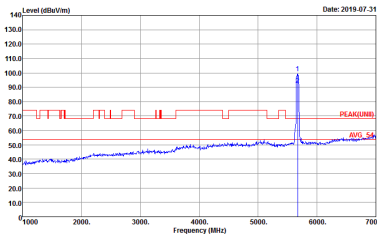
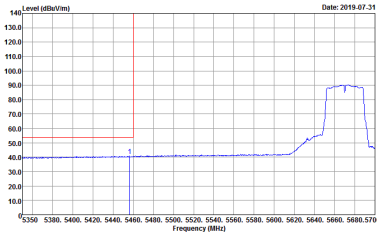
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - L                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                                                     |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT1) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> | Left blank                                                                                                                                                                                                                                      |

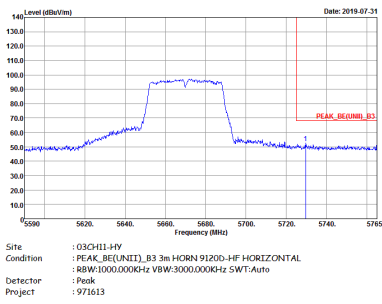
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - R                                                  |             |
| 1    | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - L                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                    |
| 1    | Vertical                                                                                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                                                                                        |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p>  |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT1) 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> | Left blank                                                                                                                                                                                                                                                                                         |

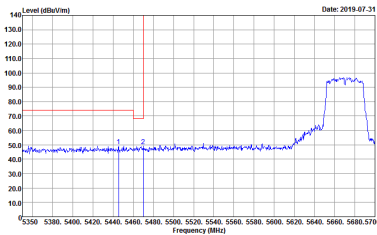
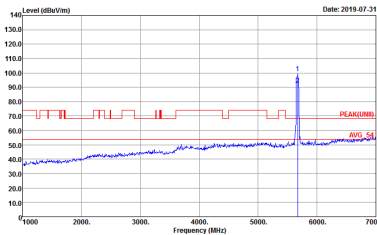
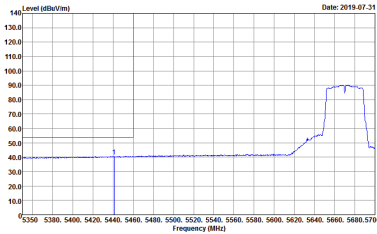
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - R                                                  |             |
| 1    | Vertical                                                                          | Fundamental |
| Peak |  | Left blank  |



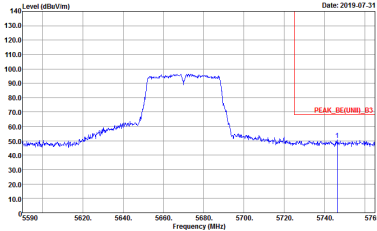
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - L                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> | Left blank                                                                                                                                                                                                                                     |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - R                                                  |             |
| 1    | Horizontal                                                                        | Fundamental |
| Peak |  | Left blank  |

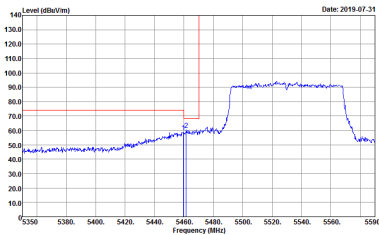
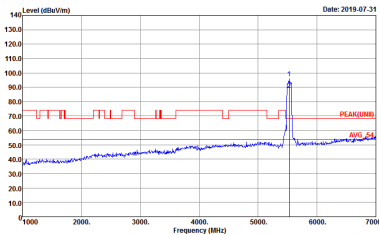
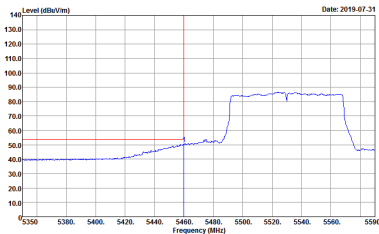


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                  |                                                                                                                                                                                                                                               |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - L                                                                                                                                                                                                                    |                                                                                                                                                                                                                                               |
| 1    | Vertical                                                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                                                   |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT1) 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p> | Left blank                                                                                                                                                                                                                                    |

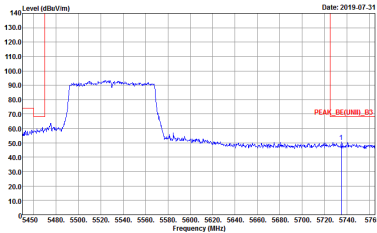


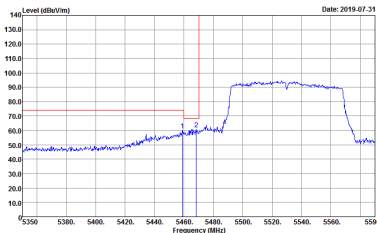
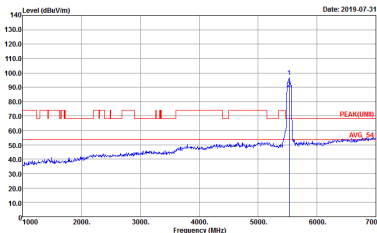
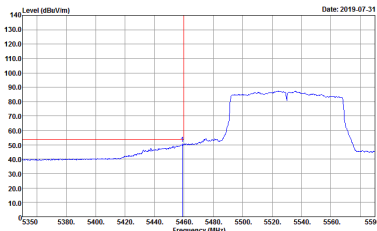
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                       |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - R                                                                                                                                                                                                                                                                         |             |
| 1    | Vertical                                                                                                                                                                                                                                                                                                 | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWFT:Auto<br/>           Project : 971613         </p> | Left blank  |

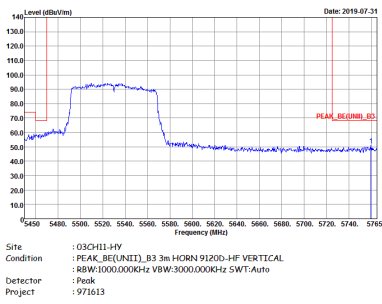
**Band 3 5470~5725MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI        | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11ac VHT80 CH106 5530MHz - L                                                                                                                                                                                     |                                                                                                                                                                                                                |
| 1           | Horizontal                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                    |
| <b>Peak</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK_BE(UNIT1)_B3 3m HORN 91200-HF HORIZONTAL<br/> Detector : Peak<br/> Project : 971613</p>  |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNIT1) 3m HORN 91200-HF HORIZONTAL<br/> Detector : Peak<br/> Project : 971613</p> |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : AVG_BE(UNIT1)_B3 3m HORN 91200-HF HORIZONTAL<br/> Detector : Peak<br/> Project : 971613</p> | <b>Left blank</b>                                                                                                                                                                                              |

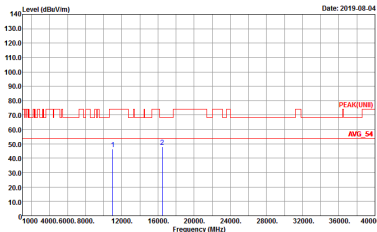
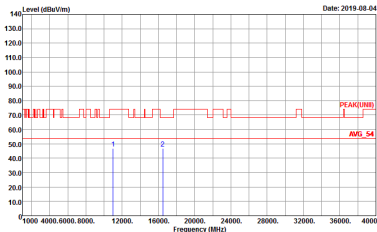


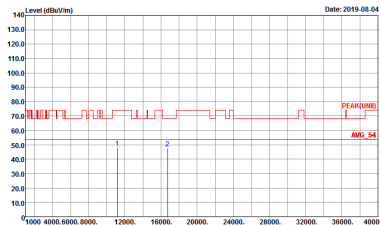
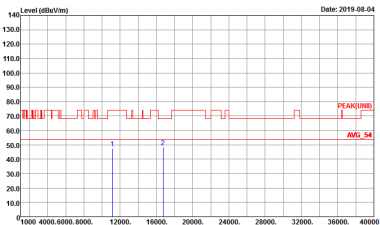
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                             |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - R                                                                                                                                                                                                                               |             |
| 1    | Horizontal                                                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CHI1-HY<br/>Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : 971613</p></div> | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - L                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                    |
| 1    | Vertical                                                                                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                                                                                        |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT1) 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 971613         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>           Project : 971613         </p>   | Left blank                                                                                                                                                                                                                                                                                         |

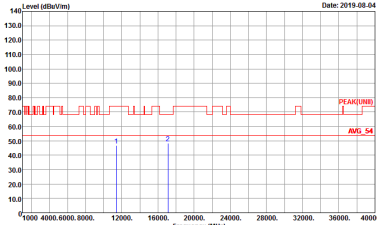
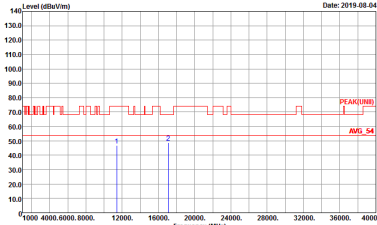
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                |             |
|------|-----------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - R                                             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

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

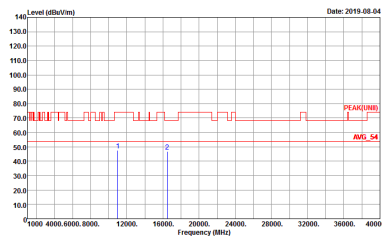
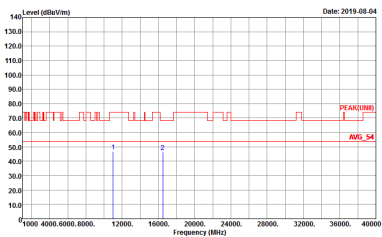
| WIFI                           | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11a CH100 5500MHz                                                                                                                                                                                        |                                                                                                                                                                                                             |
| 1                              | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>Site : 03CHI1-HY<br/> Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/> Detector : Peak<br/> Project : 971613</p> |  <p>Site : 03CHI1-HY<br/> Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/> Detector : Peak<br/> Project : 971613</p> |

| WIFI                           | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                               |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11a CH116 5580MHz                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                               |
| 1                              | Horizontal                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                      |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |

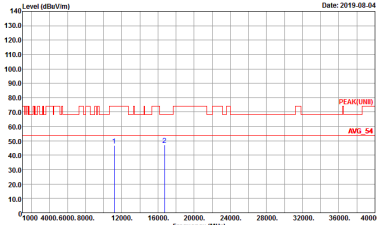
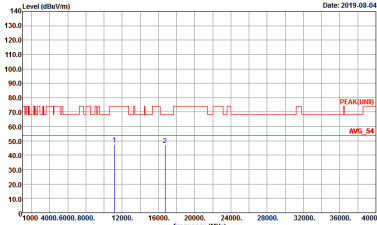


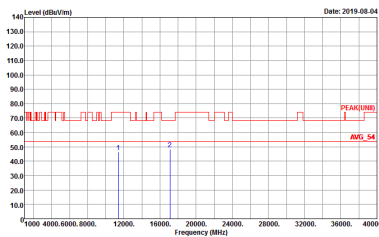
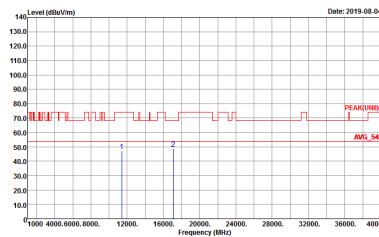
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                         |                                                                                                                                                                                                          |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH140 5700MHz                                                                                                                                                                                     |                                                                                                                                                                                                          |
| 1            | Horizontal                                                                                                                                                                                                | Vertical                                                                                                                                                                                                 |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p> |

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

| WIFI                           | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                               |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11ac VHT20 CH100 5500MHz                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                               |
| 1                              | Horizontal                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                      |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH116 5580MHz                                                                                                                                                                                        |                                                                                                                                                                                                                    |
| 1            | Horizontal                                                                                                                                                                                                          | Vertical                                                                                                                                                                                                           |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p></div> |

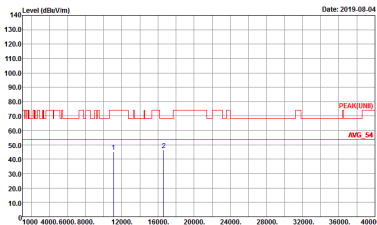
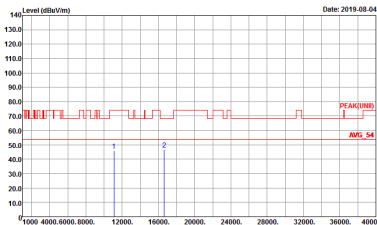
| WIFI                           | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                               |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11ac VHT20 CH140 5700MHz                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                               |
| 1                              | Horizontal                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                      |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 971613         </p> |



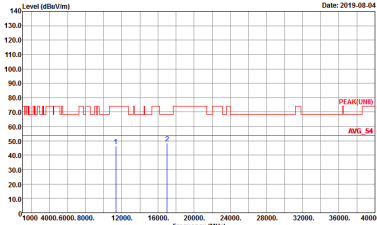
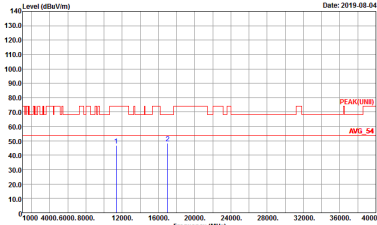
Band 3 5470~5725MHz  
WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                       |                                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH102 5510MHz                                                                                            |                                                                                                                       |
| 1            | Horizontal                                                                                                              | Vertical                                                                                                              |
| Peak<br>Avg. | <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> | <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p> |
|              |                                                                                                                         |                                                                                                                       |



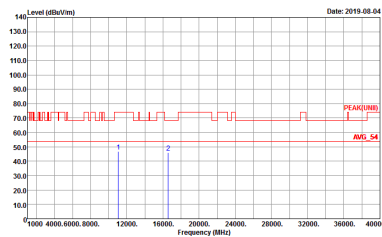
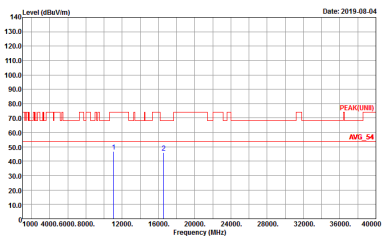
|              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                    |
| ANT          | 802.11ac VHT40 CH110 5550MHz                                                                                                                                                                                        |                                                                                                                                                                                                                    |
| 1            | Horizontal                                                                                                                                                                                                          | Vertical                                                                                                                                                                                                           |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p></div> |



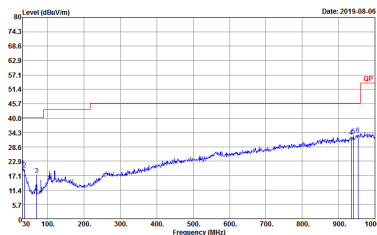
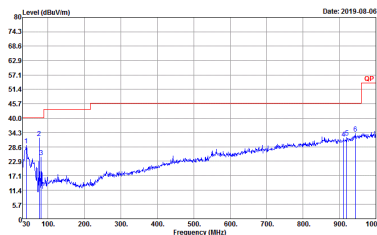
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                   |                                                                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH134 5670MHz                                                                                                                                                                                        |                                                                                                                                                                                                                    |
| 1            | Horizontal                                                                                                                                                                                                          | Vertical                                                                                                                                                                                                           |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p></div> |



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

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                        |                                                                                                                                                                                                         |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH106 5530MHz                                                                                                                                                                             |                                                                                                                                                                                                         |
| 1            | Horizontal                                                                                                                                                                                               | Vertical                                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UWB) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 971613</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UWB) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 971613</p> |
|              |                                                                                                                                                                                                          |                                                                                                                                                                                                         |

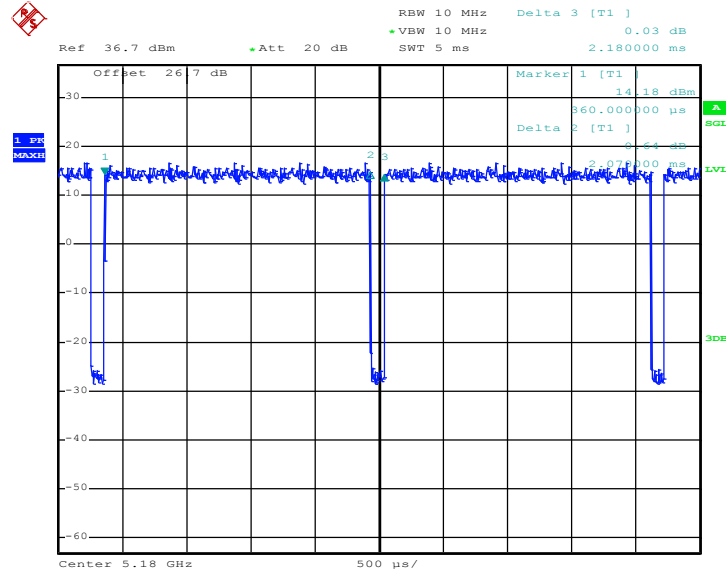
**Emission below 1GHz**  
**5GHz WIFI 802.11ac VHT80 (LF)**

| WIFI                 | 5GHz WIFI                                                                                                                                                                                                  |                                                                                                                                                                                                           |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                  | 802.11ac VHT80 LF                                                                                                                                                                                          |                                                                                                                                                                                                           |
| 1                    | Horizontal                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                  |
| <b>QP /<br/>Peak</b> |  <p>Site : 03CHI1-HY<br/> Condition : QP 3m BT-LOG 6111D-LF_ETC HORIZONTAL<br/> Detector : Peak<br/> Project : 971613</p> |  <p>Site : 03CHI1-HY<br/> Condition : QP 3m BT-LOG 6111D-LF_ETC VERTICAL<br/> Detector : Peak<br/> Project : 971613</p> |
|                      |                                                                                                                                                                                                            |                                                                                                                                                                                                           |

## Appendix E. Duty Cycle Plots

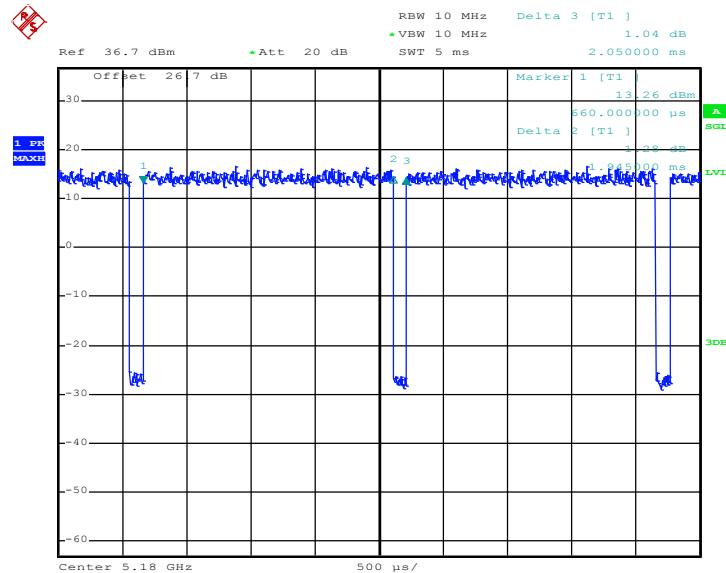
| Band           | Duty Cycle(%) | T(ms) | 1/T(kHz) | VBW Setting | Duty Factor(dB) |
|----------------|---------------|-------|----------|-------------|-----------------|
| 802.11a        | 94.95         | 2.070 | 0.48     | 1kHz        | 0.23            |
| 802.11ac VHT20 | 94.88         | 1.945 | 0.51     | 1kHz        | 0.23            |
| 802.11ac VHT40 | 90.05         | 0.950 | 1.05     | 3kHz        | 0.46            |
| 802.11ac VHT80 | 88.02         | 0.735 | 1.36     | 3kHz        | 0.55            |

## 802.11a



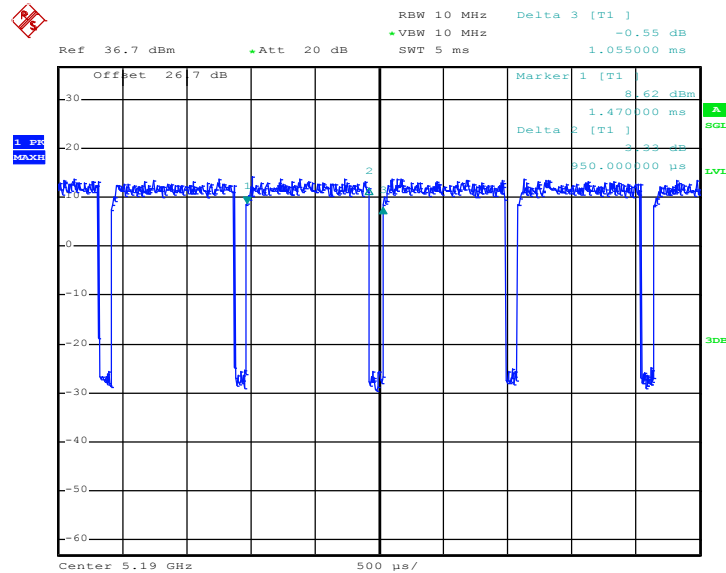
Date: 27.JUL.2019 03:21:22

## 802.11ac VHT20



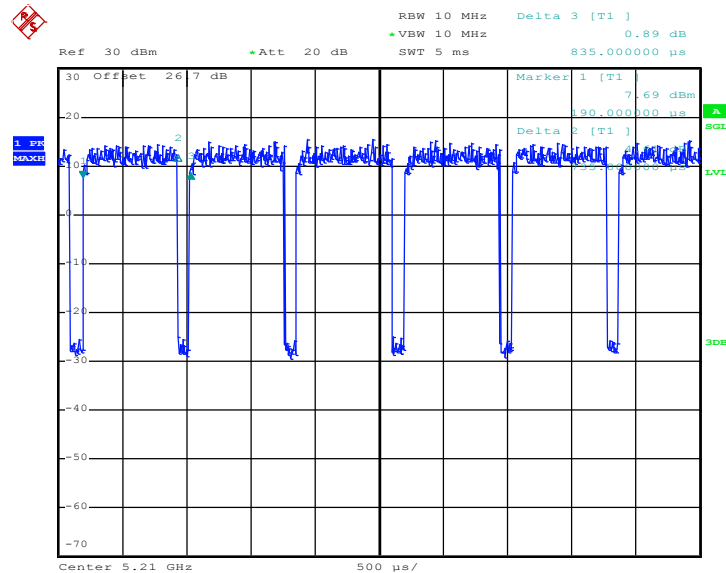
Date: 27.JUL.2019 03:23:32

## 802.11ac VHT40



Date: 27.JUL.2019 03:26:36

## 802.11ac VHT80



Date: 30.JUL.2019 17:10:36