

# FCC RADIO TEST REPORT

FCC ID : IHDT56XP2  
Equipment : Mobile Cellular Phone  
Brand Name : Motorola  
Model Name : XT1962-4  
Applicant : Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL  
60654 USA  
Manufacturer : Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL  
60654 USA  
Standard : FCC Part 15 Subpart E §15.407

The product was received on Sep. 08, 2018 and testing was started from Sep. 20, 2018 and completed on Oct. 09, 2018. We, SPORTON INTERNATIONAL INC., 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: Joseph Lin

**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   |
|--------------|---------|-------------------------|---------------|
| FR890804-01D | 01      | Initial issue of report | Oct. 24, 2018 |
|              |         |                         |               |
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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>3.21 dB at<br>5150.000 MHz |
| 3.5           | 15.207              | AC Conducted Emission                  | Pass               | Under limit<br>17.07 dB at<br>0.152 MHz   |
| 3.6           | 15.407(c)           | Automatically Discontinue Transmission | Pass               | -                                         |
| 3.7           | 15.203<br>15.407(a) | Antenna Requirement                    | Pass               | -                                         |

**Reviewed by: Wii Chang**

**Report Producer: Natasha Hsieh**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Mobile Cellular Phone                                                                                                                                                                                                    |
| Brand Name                      | Motorola                                                                                                                                                                                                                 |
| Model Name                      | XT1962-4                                                                                                                                                                                                                 |
| Sample 1                        | Dual SIM                                                                                                                                                                                                                 |
| Sample 2                        | Single SIM                                                                                                                                                                                                               |
| FCC ID                          | IHDT56XP2                                                                                                                                                                                                                |
| IMEI Code                       | <b>Conducted :</b> IMEI 1: 355570090015416<br>IMEI 2: 355570090015424<br><b>Conduction :</b> IMEI 1: 355570090016372<br>IMEI 2: 355570090016380<br><b>Radiation :</b> IMEI 1: 355570090016257<br>IMEI 2: 355570090016265 |
| EUT supports Radios application | GSM/EGPRS/WCDMA/HSPA/LTE/GNSS/FM<br>WLAN 11b/g/n HT20<br>WLAN 11a/n HT20/HT40<br>Bluetooth BR/EDR/LE                                                                                                                     |
| HW Version                      | DVT1-B                                                                                                                                                                                                                   |
| EUT Stage                       | Identical Prototype                                                                                                                                                                                                      |

**Remark:** The above EUT's information was declared by manufacturer.



| Accessory List |                |            |
|----------------|----------------|------------|
| AC Adapter 1   | Brand Name :   | Motorola   |
|                | Model Name :   | SC-51      |
|                | Manufacturer : | Salom      |
| AC Adapter 1   | Brand Name :   | Motorola   |
|                | Model Name :   | SC-52      |
|                | Manufacturer : | Salom      |
| AC Adapter 1   | Brand Name :   | Motorola   |
|                | Model Name :   | SC-57      |
|                | Manufacturer : | Salom      |
| AC Adapter 1   | Brand Name :   | Motorola   |
|                | Model Name :   | SC-56      |
|                | Manufacturer : | Salom      |
| AC Adapter 1   | Brand Name :   | Motorola   |
|                | Model Name :   | SC-52      |
|                | Manufacturer : | Salom      |
| AC Adapter 1   | Brand Name :   | Motorola   |
|                | Model Name :   | SC-57      |
|                | Manufacturer : | Flex       |
| AC Adapter 2   | Brand Name :   | Motorola   |
|                | Model Name :   | SC-51      |
|                | Manufacturer : | Chenyang   |
| AC Adapter 2   | Brand Name :   | Motorola   |
|                | Model Name :   | SC-52      |
|                | Manufacturer : | Chenyang   |
| AC Adapter 2   | Brand Name :   | Motorola   |
|                | Model Name :   | SC-56      |
|                | Manufacturer : | Chenyang   |
| AC Adapter 2   | Brand Name :   | Motorola   |
|                | Model Name :   | SC-57      |
|                | Manufacturer : | Cliptech   |
| Battery        | Brand Name :   | Motorola   |
|                | Model Name :   | JG30       |
|                | Manufacturer : | Amperex    |
| Earphone       | Brand Name :   | Motorola   |
|                | Model Name :   | SH38C37773 |
|                | Manufacturer : | Lyand      |
| USB Cable 1    | Brand Name :   | Luxshare   |
|                | Model Name :   | SKN6473A   |
| USB Cable 2    | Brand Name :   | Cabletech  |
|                | Model Name :   | SKN6473A   |
| USB Cable 3    | Brand Name :   | Saibao     |
|                | Model Name :   | SKN6473A   |

## 1.2 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx/Rx Frequency Range</b>            | 5180 MHz ~ 5240 MHz<br>5260 MHz ~ 5320 MHz<br>5500 MHz ~ 5720 MHz                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Maximum Output Power to Antenna</b>  | <b>&lt;5180 MHz ~ 5240 MHz&gt;</b><br>802.11a : 14.49 dBm / 0.0281 W<br>802.11n HT20 : 14.47 dBm / 0.0280 W<br>802.11n HT40 : 14.48 dBm / 0.0281 W<br><b>&lt;5260 MHz ~ 5320 MHz&gt;</b><br>802.11a : 14.39 dBm / 0.0275 W<br>802.11n HT20 : 14.47 dBm / 0.0280 W<br>802.11n HT40 : 14.44 dBm / 0.0278 W<br><b>&lt;5500 MHz ~ 5700 MHz &gt;</b><br>802.11a : 14.49 dBm / 0.0281 W<br>802.11n HT20 : 14.34 dBm / 0.0272 W<br>802.11n HT40 : 14.47 dBm / 0.0280 W |
| <b>99% Occupied Bandwidth</b>           | 802.11a : 18.00 MHz<br>802.11n HT20 : 18.75 MHz<br>802.11n HT40 : 37.00 MHz                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Antenna Type / Gain</b>              | <b>&lt;5150 MHz ~ 5250 MHz&gt;</b><br>IFA Antenna with gain 0.0 dBi<br><b>&lt;5250 MHz ~ 5350 MHz&gt;</b><br>IFA Antenna with gain 0.0 dBi<br><b>&lt;5470 MHz ~ 5725 MHz&gt;</b><br>IFA Antenna with gain 0.0 dBi                                                                                                                                                                                                                                               |
| <b>Type of Modulation</b>               | 802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)                                                                                                                                                                                                                                                                                                                                                                                                                  |

Remark: The WLAN operation in 5600 MHz ~ 5650 MHz is notched.

## 1.3 Modification of EUT

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

## 1.4 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

|                           |                                                                                                                       |         |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------|---------|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.                                                                                            |         |
| <b>Test Site Location</b> | 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 |         |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                               |         |
|                           | TH05-HY                                                                                                               | CO05-HY |

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

|                           |                                                                                                                                           |  |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.                                                                                                                |  |
| <b>Test Site Location</b> | 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 |  |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                   |  |
|                           | 03CH11-HY                                                                                                                                 |  |

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

## 1.5 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        |
|                                      | -       | -           |         |             |

| 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        |
|                                       | -       | -           |         |             |

| 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        |
|                                       | -       | -           | 134*    | 5670        |
|                                       | 108     | 5540        | 136     | 5680        |
|                                       | 110*    | 5550        | 140     | 5700        |

**Note:** The above Frequency and Channel in "\*" were 802.11n HT40.

## 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    |
| 802.11n HT20 | MCS0      |
| 802.11n HT40 | MCS0      |

| Test Cases                                                                                                           |                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>AC Conducted Emission</b>                                                                                         | Mode 1 : GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + MP3 + Earphone + Battery + USB Cable 1 Type C (Charging from Adapter 1) |
| <b>Remark:</b> For Radiated Test Cases, the tests were performed with Adapter 1 and USB Cable 1 Type C for Sample 1. |                                                                                                                                    |

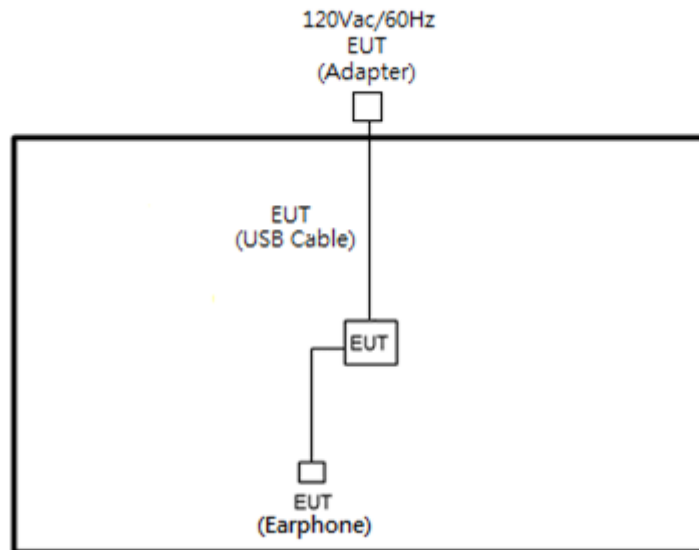
| Ch. # |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11a                | 802.11a                 | 802.11a                 |
| L     | Low    | 36                     | 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 |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11n HT20           | 802.11n HT20            | 802.11n HT20            |
| L     | Low    | 36                     | 52                      | 100                     |
| M     | Middle | 44                     | 60                      | 116                     |
| H     | High   | 48                     | 64                      | 140                     |

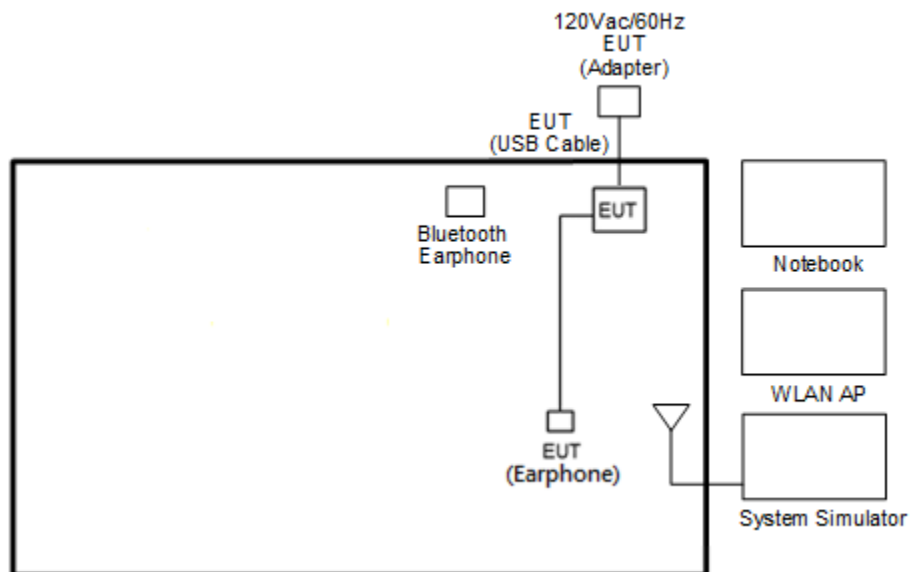
| Ch. # |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11n HT40           | 802.11n HT40            | 802.11n HT40            |
| L     | Low    | 38                     | 54                      | 102                     |
| M     | Middle | -                      | -                       | 110                     |
| H     | High   | 46                     | 62                      | 134                     |

## 2.3 Connection Diagram of Test System

### <WLAN Tx Mode>



### <AC Conducted Emission Mode>



## 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, 1.8 m                                          |
| 2.   | Bluetooth Earphone | Sony Ericsson | MW600      | PY700A2029  | N/A        | N/A                                                        |
| 3.   | WLAN AP            | ASUS          | RT-AC66U   | MSQ-RTAC66U | N/A        | Unshielded, 1.8 m                                          |
| 4.   | Notebook           | DELL          | P20G       | 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                                                        |

## 2.5 EUT Operation Test Setup

The RF test items, utility “CMD” 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 4.2 dB and 10dB attenuator.

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

### 3 Test Result

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

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

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

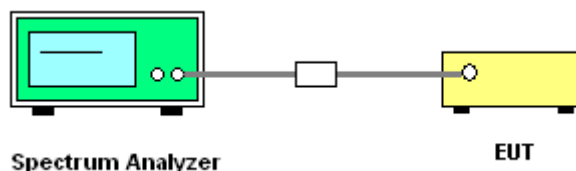
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

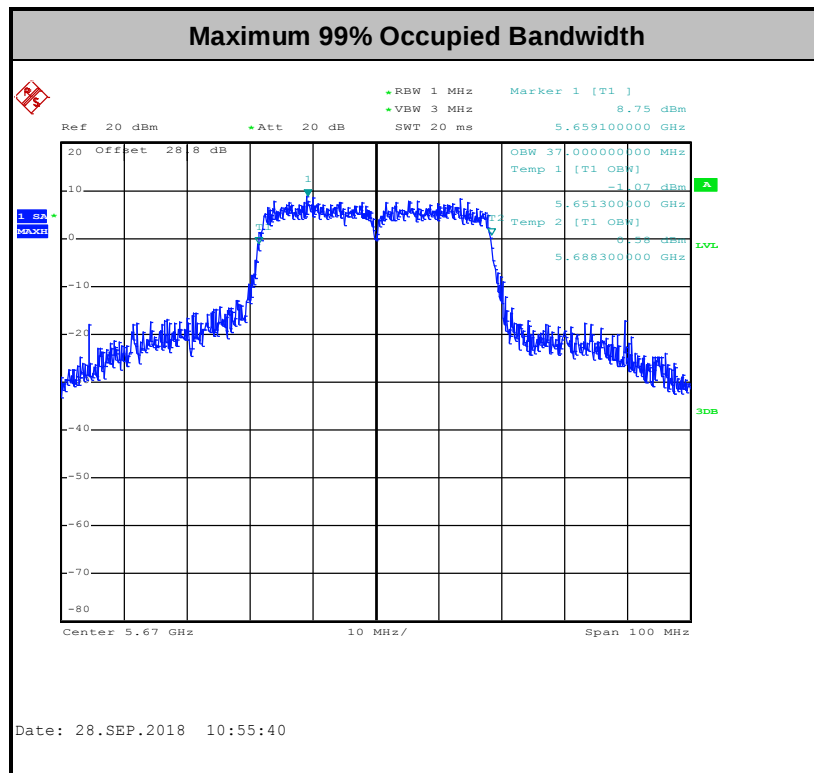
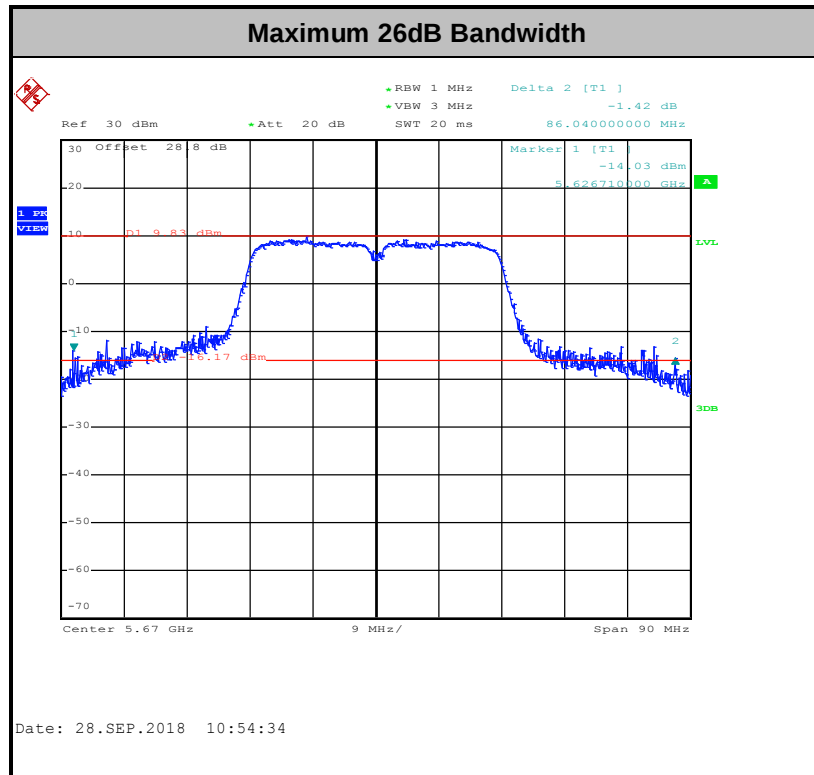
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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.

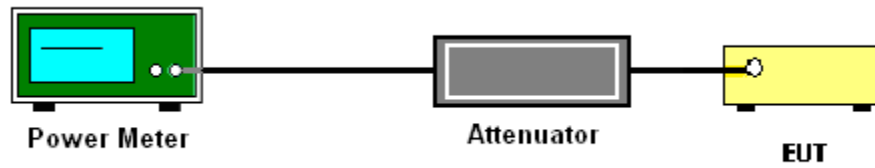
### 3.2.3 Test Procedures

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

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor,  $10 \log(1/x)$ , where x is the duty cycle.

### 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.

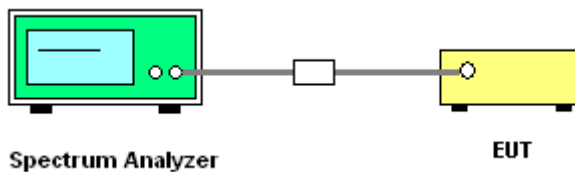
Section F) Maximum power spectral density.

##### **# Method SA-2 #**

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

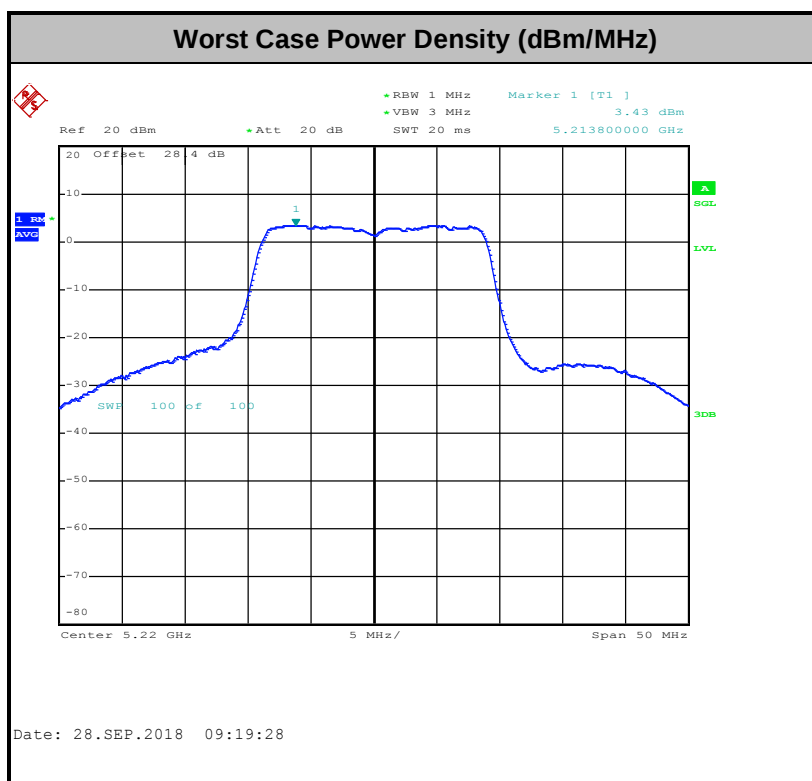
- Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 1 MHz.
  - Set VBW  $\geq$  3 MHz.
  - Number of points in sweep  $\geq$  2 Span / RBW.
  - Sweep time = auto.
  - Detector = RMS
  - Trace average at least 100 traces in power averaging 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.

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

| 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

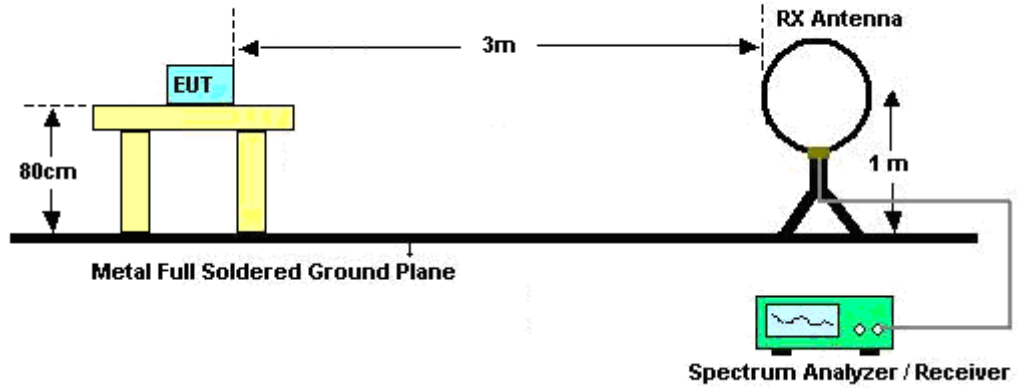
- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

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

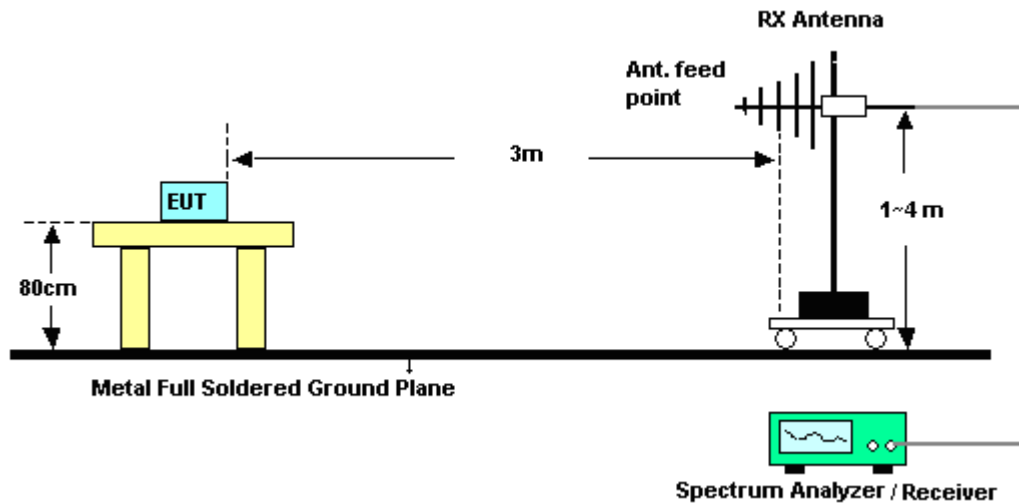
- RBW = 1 MHz
  - VBW = 10 Hz, when duty cycle is no less than 98 percent.
  - $VBW \geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.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

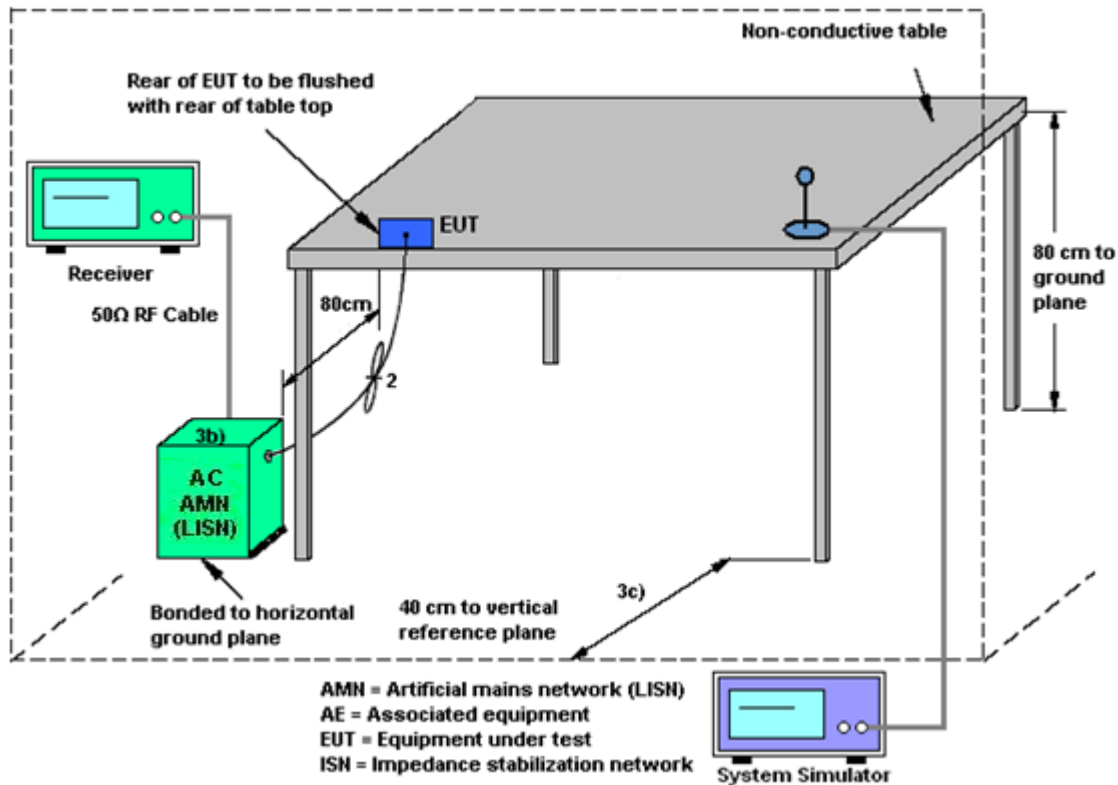
#### 3.5.2 Measuring Instruments

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                   |
|-----------------------|-------------------|-------------------------|----------------------|-----------------|------------------|---------------------------------|---------------|--------------------------|
| Hygrometer            | Testo             | DTM-303A                | TP157075             | N/A             | Mar. 06, 2018    | Sep. 20, 2018~<br>Oct. 09, 2018 | Mar. 05, 2019 | Conducted<br>(TH05-HY)   |
| Power Meter           | Anritsu           | ML2495A                 | 1132003              | N/A             | Aug. 16, 2018    | Sep. 20, 2018~<br>Oct. 09, 2018 | Aug. 15, 2019 | Conducted<br>(TH05-HY)   |
| Power Sensor          | Anritsu           | MA2411B                 | 1126017              | 300MHz~40GHz    | Aug. 16, 2018    | Sep. 20, 2018~<br>Oct. 09, 2018 | Aug. 15, 2019 | Conducted<br>(TH05-HY)   |
| Spectrum Analyzer     | Rohde & Schwarz   | FSP40                   | 100057               | 9kHz~40GHz      | Nov. 21, 2017    | Sep. 20, 2018~<br>Oct. 09, 2018 | Nov. 20, 2018 | Conducted<br>(TH05-HY)   |
| Signal Analyzer       | Rohde & Schwarz   | FSV40                   | 101397               | 10Hz~40GHz      | Nov. 07, 2017    | Sep. 20, 2018~<br>Oct. 09, 2018 | Nov. 06, 2018 | Conducted<br>(TH05-HY)   |
| Switch Box & RF Cable | Burgeon           | ETF-058                 | EC130048<br>4        | N/A             | Mar. 01, 2018    | Sep. 20, 2018~<br>Oct. 09, 2018 | Feb. 28, 2019 | Conducted<br>(TH05-HY)   |
| AC Power Source       | ChainTek          | APC-1000W               | N/A                  | N/A             | N/A              | Oct. 04, 2018                   | N/A           | Conduction<br>(CO05-HY)  |
| EMI Test Receiver     | Rohde & Schwarz   | ESR3                    | 102388               | 9KHz~3.6GHz     | Dec. 08, 2017    | Oct. 04, 2018                   | Dec. 07, 2018 | Conduction<br>(CO05-HY)  |
| Hygrometer            | Testo             | 608-H1                  | 34913912             | N/A             | Mar. 06, 2018    | Oct. 04, 2018                   | Mar. 05, 2019 | Conduction<br>(CO05-HY)  |
| LISN                  | Rohde & Schwarz   | ENV216                  | 100080               | 9kHz~30MHz      | Nov. 30, 2017    | Oct. 04, 2018                   | Nov. 29, 2018 | Conduction<br>(CO05-HY)  |
| Software              | Rohde & Schwarz   | EMC32<br>V10.30         | N/A                  | N/A             | N/A              | Oct. 04, 2018                   | N/A           | Conduction<br>(CO05-HY)  |
| LF Cable              | HUBER +<br>SUHNER | RG-214/U                | LF01                 | N/A             | Jan. 03, 2018    | Oct. 04, 2018                   | Jan. 02, 2019 | Conduction<br>(CO05-HY)  |
| Pulse Limiter         | Rohde & Schwarz   | ESH3-Z2                 | 100851               | N/A             | Jan. 03, 2018    | Oct. 04, 2018                   | Jan. 02, 2019 | Conduction<br>(CO05-HY)  |
| Loop Antenna          | Rohde & Schwarz   | HFH2-Z2                 | 100488               | 9 kHz~30 MHz    | Nov. 23, 2017    | Oct. 01, 2018~<br>Oct. 06, 2018 | Nov. 22, 2018 | Radiation<br>(03CH11-HY) |
| Bilog Antenna         | TESEQ             | CBL<br>6111D&N-6-0<br>6 | 35414&AT-<br>N0602   | 30MHz~1GHz      | Oct. 14, 2017    | Oct. 01, 2018~<br>Oct. 06, 2018 | Oct. 13, 2018 | Radiation<br>(03CH11-HY) |
| Preamplifier          | Jet-Power         | JPA0118-55-3<br>03K     | 171000180<br>0054002 | 1GHz~18GHz      | Apr. 17, 2018    | Oct. 01, 2018~<br>Oct. 06, 2018 | Apr. 16, 2019 | Radiation<br>(03CH11-HY) |
| Spectrum Analyzer     | Keysight          | N9010A                  | MY542004<br>86       | 10Hz ~ 44GHz    | Oct. 19, 2017    | Oct. 01, 2018~<br>Oct. 06, 2018 | Oct. 18, 2018 | Radiation<br>(03CH11-HY) |
| Horn Antenna          | SCHWARZBE<br>CK   | BBHA 9120 D             | 9120D-132<br>6       | 1GHz ~ 18GHz    | Oct. 16, 2017    | Oct. 01, 2018~<br>Oct. 06, 2018 | Oct. 15, 2018 | Radiation<br>(03CH11-HY) |
| Hygrometer            | TECPEL            | DTN-303B                | TP140325             | N/A             | Oct. 12, 2017    | Oct. 01, 2018~<br>Oct. 06, 2018 | Oct. 11, 2018 | Radiation<br>(03CH11-HY) |
| Preamplifier          | Keysight          | 83017A                  | MY532700<br>80       | 1GHz~26.5GHz    | Jan. 16, 2018    | Oct. 01, 2018~<br>Oct. 06, 2018 | Jan. 15, 2020 | Radiation<br>(03CH11-HY) |
| Spectrum Analyzer     | Keysight          | N9010A                  | MY542004<br>86       | 10Hz ~ 44GHz    | Oct. 19, 2017    | Oct. 01, 2018~<br>Oct. 06, 2018 | Oct. 18, 2018 | Radiation<br>(03CH11-HY) |



| Instrument           | Manufacturer      | Model No.                           | Serial No.      | Characteristics                     | Calibration Date | Test Date                       | Due Date      | Remark                   |
|----------------------|-------------------|-------------------------------------|-----------------|-------------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Controller           | EMEC              | EM 1000                             | N/A             | Control Turn table & Ant Mast       | N/A              | Oct. 01, 2018~<br>Oct. 06, 2018 | N/A           | Radiation<br>(03CH11-HY) |
| Antenna Mast         | EMEC              | AM-BS-4500-B                        | N/A             | 1~4m                                | N/A              | Oct. 01, 2018~<br>Oct. 06, 2018 | N/A           | Radiation<br>(03CH11-HY) |
| Turn Table           | EMEC              | TT 2000                             | N/A             | 0~360 Degree                        | N/A              | Oct. 01, 2018~<br>Oct. 06, 2018 | N/A           | Radiation<br>(03CH11-HY) |
| Amplifier            | MITEQ             | TTA1840-35-HG                       | 1871923         | 18GHz~40GHz,<br>VSWR : 2.5:1<br>max | Jul. 16, 2018    | Oct. 01, 2018~<br>Oct. 06, 2018 | Jul. 15, 2019 | Radiation<br>(03CH11-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK       | BBHA 9170                           | BBHA9170<br>584 | 18GHz- 40GHz                        | Nov. 27, 2017    | Oct. 01, 2018~<br>Oct. 06, 2018 | Nov. 26, 2018 | Radiation<br>(03CH11-HY) |
| Software             | Audix             | E3<br>6.2009-8-24                   | RK-00104<br>2   | N/A                                 | N/A              | Oct. 01, 2018~<br>Oct. 06, 2018 | N/A           | Radiation<br>(03CH11-HY) |
| RF Cable             | HUBER +<br>SUHNER | SUCOFLEX<br>104                     | MY9837/4<br>PE  | 9kHz-30MHz                          | Mar. 14, 2018    | Oct. 01, 2018~<br>Oct. 06, 2018 | Mar. 13, 2019 | Radiation<br>(03CH11-HY) |
| RF Cable             | HUBER +<br>SUHNER | SUCOFLEX<br>102                     | MY2859/2        | 30MHz-40GHz                         | Mar. 14, 2018    | Oct. 01, 2018~<br>Oct. 06, 2018 | Mar. 13, 2019 | Radiation<br>(03CH11-HY) |
| RF Cable             | HUBER +<br>SUHNER | SUCOFLEX<br>104                     | MY9837/4<br>PE  | 30M-18G                             | Mar. 14, 2018    | Oct. 01, 2018~<br>Oct. 06, 2018 | Mar. 13, 2019 | Radiation<br>(03CH11-HY) |
| RF Cable             | HUBER +<br>SUHNER | SUCOFLEX<br>102                     | MY4274/2        | 30MHz-40GHz                         | Mar. 14, 2018    | Oct. 01, 2018~<br>Oct. 06, 2018 | Mar. 13, 2019 | Radiation<br>(03CH11-HY) |
| Filter               | Wainwright        | WLK4-1000-1<br>530-8000-40S<br>S    | SN11            | 1G Low Pass                         | Sep. 17, 2018    | Oct. 01, 2018~<br>Oct. 06, 2018 | Sep. 16, 2019 | Radiation<br>(03CH11-HY) |
| Filter               | Wainwright        | WHKX12-270<br>0-3000-18000<br>-60SS | SN3             | 2.7G High Pass                      | Sep. 17, 2018    | Oct. 01, 2018~<br>Oct. 06, 2018 | Sep. 16, 2019 | Radiation<br>(03CH11-HY) |



## 5 Uncertainty of Evaluation

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

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 2.20 |
|----------------------------------------------------------------------------|------|

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

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.20 |
|----------------------------------------------------------------------------|------|

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

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

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

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.20 |
|----------------------------------------------------------------------------|------|

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

|                |                      |                    |       |    |
|----------------|----------------------|--------------------|-------|----|
| Test Engineer: | Shiang Wang          | Temperature:       | 21~25 | °C |
| Test Date:     | 2018/9/20~2018/10/09 | Relative Humidity: | 51~54 | %  |

**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 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 17.60               | -     | 41.82                 | -     | -                                  | -     | 22.46                             | -     |      |
| 11a    | 6Mbps     | 1   | 44  | 5220        | 17.80               | -     | 43.91                 | -     | -                                  | -     | 22.50                             | -     |      |
| 11a    | 6Mbps     | 1   | 48  | 5240        | 17.55               | -     | 43.00                 | -     | -                                  | -     | 22.44                             | -     |      |
| HT20   | MCS0      | 1   | 36  | 5180        | 18.50               | -     | 45.70                 | -     | -                                  | -     | 22.67                             | -     |      |
| HT20   | MCS0      | 1   | 44  | 5220        | 18.75               | -     | 46.70                 | -     | -                                  | -     | 22.73                             | -     |      |
| HT20   | MCS0      | 1   | 48  | 5240        | 18.40               | -     | 44.95                 | -     | -                                  | -     | 22.65                             | -     |      |
| HT40   | MCS0      | 1   | 38  | 5190        | 36.90               | -     | 82.04                 | -     | -                                  | -     | 23.01                             | -     |      |
| HT40   | MCS0      | 1   | 46  | 5230        | 36.80               | -     | 79.92                 | -     | -                                  | -     | 23.01                             | -     |      |

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

| FCC Band I |           |     |     |             |                  |       |                               |       |     |                                 |       |          |       |           |
|------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-----|---------------------------------|-------|----------|-------|-----------|
| Mod.       | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |     | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | Pass/Fail |
|            |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |           |
| 11a        | 6Mbps     | 1   | 36  | 5180        | 0.56             | -     | 13.96                         | -     |     | 24.00                           | -     | 0.00     | -     | Pass      |
| 11a        | 6Mbps     | 1   | 44  | 5220        | 0.56             | -     | 14.44                         | -     |     | 24.00                           | -     | 0.00     | -     | Pass      |
| 11a        | 6Mbps     | 1   | 48  | 5240        | 0.56             | -     | 14.49                         | -     |     | 24.00                           | -     | 0.00     | -     | Pass      |
| HT20       | MCS0      | 1   | 36  | 5180        | 0.63             | -     | 13.97                         | -     |     | 24.00                           | -     | 0.00     | -     | Pass      |
| HT20       | MCS0      | 1   | 44  | 5220        | 0.63             | -     | 14.47                         | -     |     | 24.00                           | -     | 0.00     | -     | Pass      |
| HT20       | MCS0      | 1   | 48  | 5240        | 0.63             | -     | 14.22                         | -     |     | 24.00                           | -     | 0.00     | -     | Pass      |
| HT40       | MCS0      | 1   | 38  | 5190        | 0.60             | -     | 10.71                         | -     |     | 24.00                           | -     | 0.00     | -     | Pass      |
| HT40       | MCS0      | 1   | 46  | 5230        | 0.60             | -     | 14.48                         | -     |     | 24.00                           | -     | 0.00     | -     | Pass      |

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

| FCC Band I |           |     |     |             |                  |       |                                 |       |     |                             |       |          |       |            |
|------------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|-----|-----------------------------|-------|----------|-------|------------|
| Mod.       | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |     | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|            |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |            |
| 11a        | 6Mbps     | 1   | 36  | 5180        | 0.56             | -     | 2.55                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| 11a        | 6Mbps     | 1   | 44  | 5220        | 0.56             | -     | 4.00                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| 11a        | 6Mbps     | 1   | 48  | 5240        | 0.56             | -     | 3.94                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT20       | MCS0      | 1   | 36  | 5180        | 0.63             | -     | 2.41                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT20       | MCS0      | 1   | 44  | 5220        | 0.63             | -     | 4.06                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT20       | MCS0      | 1   | 48  | 5240        | 0.63             | -     | 3.17                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT40       | MCS0      | 1   | 38  | 5190        | 0.60             | -     | -3.75                           | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT40       | MCS0      | 1   | 46  | 5230        | 0.60             | -     | -0.28                           | -     |     | 11.00                       | -     | 0.00     | -     | 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 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 |      |
| 11a     | 6Mbps     | 1   | 52  | 5260        | 17.75               | -     | 40.50                 | -     | 23.49                              | -     | 29.49                             | -     | 23.98                                | -     |      |
| 11a     | 6Mbps     | 1   | 60  | 5300        | 17.60               | -     | 40.80                 | -     | 23.46                              | -     | 29.46                             | -     | 23.98                                | -     |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 17.50               | -     | 40.80                 | -     | 23.43                              | -     | 29.43                             | -     | 23.98                                | -     |      |
| HT20    | MCS0      | 1   | 52  | 5260        | 18.55               | -     | 43.85                 | -     | 23.68                              | -     | 29.68                             | -     | 23.98                                | -     |      |
| HT20    | MCS0      | 1   | 60  | 5300        | 18.55               | -     | 44.55                 | -     | 23.68                              | -     | 29.68                             | -     | 23.98                                | -     |      |
| HT20    | MCS0      | 1   | 64  | 5320        | 18.60               | -     | 44.50                 | -     | 23.70                              | -     | 29.70                             | -     | 23.98                                | -     |      |
| HT40    | MCS0      | 1   | 54  | 5270        | 36.90               | -     | 82.16                 | -     | 23.98                              | -     | 30.00                             | -     | 23.98                                | -     |      |
| HT40    | MCS0      | 1   | 62  | 5310        | 36.90               | -     | 77.28                 | -     | 23.98                              | -     | 30.00                             | -     | 23.98                                | -     |      |

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

| FCC Band II |           |     |     |             |                  |       |                               |       |     |                                 |       |          |       |                        |           |
|-------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-----|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.        | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |     | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power Limit (dBm) | Pass/Fail |
|             |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |                        |           |
| 11a         | 6Mbps     | 1   | 52  | 5260        | 0.56             | -     | 14.31                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| 11a         | 6Mbps     | 1   | 60  | 5300        | 0.56             | -     | 14.28                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| 11a         | 6Mbps     | 1   | 64  | 5320        | 0.56             | -     | 14.39                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| HT20        | MCS0      | 1   | 52  | 5260        | 0.63             | -     | 14.40                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| HT20        | MCS0      | 1   | 60  | 5300        | 0.63             | -     | 14.44                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| HT20        | MCS0      | 1   | 64  | 5320        | 0.63             | -     | 14.47                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| HT40        | MCS0      | 1   | 54  | 5270        | 0.60             | -     | 14.44                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| HT40        | MCS0      | 1   | 62  | 5310        | 0.60             | -     | 11.34                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |

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

| Band II |           |     |     |             |                  |       |                                 |       |     |                             |       |          |       |            |
|---------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|-----|-----------------------------|-------|----------|-------|------------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |     | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|         |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |            |
| 11a     | 6Mbps     | 1   | 52  | 5260        | 0.56             | -     | 3.59                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| 11a     | 6Mbps     | 1   | 60  | 5300        | 0.56             | -     | 3.48                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 0.56             | -     | 3.38                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT20    | MCS0      | 1   | 52  | 5260        | 0.63             | -     | 3.32                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT20    | MCS0      | 1   | 60  | 5300        | 0.63             | -     | 3.20                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT20    | MCS0      | 1   | 64  | 5320        | 0.63             | -     | 3.22                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT40    | MCS0      | 1   | 54  | 5270        | 0.60             | -     | -0.09                           | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT40    | MCS0      | 1   | 62  | 5310        | 0.60             | -     | -3.48                           | -     |     | 11.00                       | -     | 0.00     | -     | 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 2 | Ant 1                             | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 | Ant 1                                     | Ant 2 |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 17.50                           | -     | 41.18                             | -     | 23.43                              | -     | 29.43                             | -     | 23.98                                | -     | ----                                      | ----  |
| 11a      | 6Mbps     | 1   | 116 | 5580        | 17.45                           | -     | 42.73                             | -     | 23.42                              | -     | 29.42                             | -     | 23.98                                | -     | ----                                      | ----  |
| 11a      | 6Mbps     | 1   | 140 | 5700        | 18.00                           | -     | 41.90                             | -     | 23.55                              | -     | 29.55                             | -     | 23.98                                | -     | ----                                      | ----  |
| HT20     | MCS0      | 1   | 100 | 5500        | 18.40                           | -     | 44.25                             | -     | 23.65                              | -     | 29.65                             | -     | 23.98                                | -     | ----                                      | ----  |
| HT20     | MCS0      | 1   | 116 | 5580        | 18.50                           | -     | 44.80                             | -     | 23.67                              | -     | 29.67                             | -     | 23.98                                | -     | ----                                      | ----  |
| HT20     | MCS0      | 1   | 140 | 5700        | 18.65                           | -     | 45.80                             | -     | 23.71                              | -     | 29.71                             | -     | 23.98                                | -     | ----                                      | ----  |
| HT40     | MCS0      | 1   | 102 | 5510        | 36.70                           | -     | 82.34                             | -     | 23.98                              | -     | 30.00                             | -     | 23.98                                | -     | ----                                      | ----  |
| HT40     | MCS0      | 1   | 110 | 5550        | 36.80                           | -     | 72.46                             | -     | 23.98                              | -     | 30.00                             | -     | 23.98                                | -     | ----                                      | ----  |
| HT40     | MCS0      | 1   | 134 | 5670        | 37.00                           | -     | 86.04                             | -     | 23.98                              | -     | 30.00                             | -     | 23.98                                | -     | ----                                      | ----  |

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

| FCC Band III |           |     |     |             |                  |       |                               |       |     |                                 |       |          |       |                        |           |
|--------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-----|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |     | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power Limit (dBm) | Pass/Fail |
|              |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |                        |           |
| 11a          | 6Mbps     | 1   | 100 | 5500        | 0.56             | -     | 14.21                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| 11a          | 6Mbps     | 1   | 116 | 5580        | 0.56             | -     | 14.45                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| 11a          | 6Mbps     | 1   | 140 | 5700        | 0.56             | -     | 14.49                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| HT20         | MCS0      | 1   | 100 | 5500        | 0.63             | -     | 14.34                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| HT20         | MCS0      | 1   | 116 | 5580        | 0.63             | -     | 14.19                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| HT20         | MCS0      | 1   | 140 | 5700        | 0.63             | -     | 12.70                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| HT40         | MCS0      | 1   | 102 | 5510        | 0.60             | -     | 12.21                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| HT40         | MCS0      | 1   | 110 | 5550        | 0.60             | -     | 14.38                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |
| HT40         | MCS0      | 1   | 134 | 5670        | 0.60             | -     | 14.47                         | -     |     | 23.98                           | -     | 0.00     | -     | 26.99                  | Pass      |

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

| Band III |           |     |     |             |                  |       |                                 |       |     |                             |       |          |       |            |
|----------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|-----|-----------------------------|-------|----------|-------|------------|
| Mod.     | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |     | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|          |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |            |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 0.56             | -     | 2.59                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| 11a      | 6Mbps     | 1   | 116 | 5580        | 0.56             | -     | 3.18                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| 11a      | 6Mbps     | 1   | 140 | 5700        | 0.56             | -     | 3.31                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT20     | MCS0      | 1   | 100 | 5500        | 0.63             | -     | 2.98                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT20     | MCS0      | 1   | 116 | 5580        | 0.63             | -     | 3.32                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT20     | MCS0      | 1   | 140 | 5700        | 0.63             | -     | 1.18                            | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT40     | MCS0      | 1   | 102 | 5510        | 0.60             | -     | -1.19                           | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT40     | MCS0      | 1   | 110 | 5550        | 0.60             | -     | -0.32                           | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |
| HT40     | MCS0      | 1   | 134 | 5670        | 0.60             | -     | -0.04                           | -     |     | 11.00                       | -     | 0.00     | -     | Pass       |



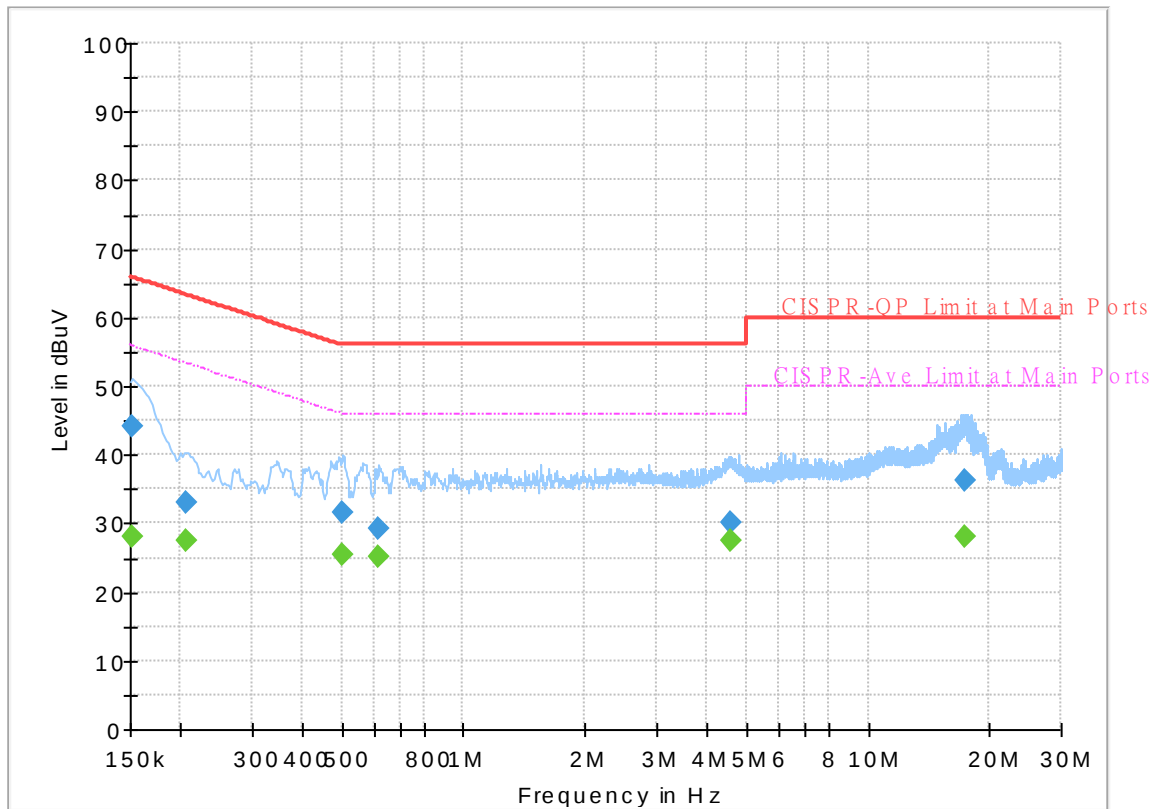
## Appendix B. AC Conducted Emission Test Results

|                 |          |                     |        |
|-----------------|----------|---------------------|--------|
| Test Engineer : | Rick Lin | Temperature :       | 23~24℃ |
|                 |          | Relative Humidity : | 60~61% |

# EUT Information

Report NO : 890804-01  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



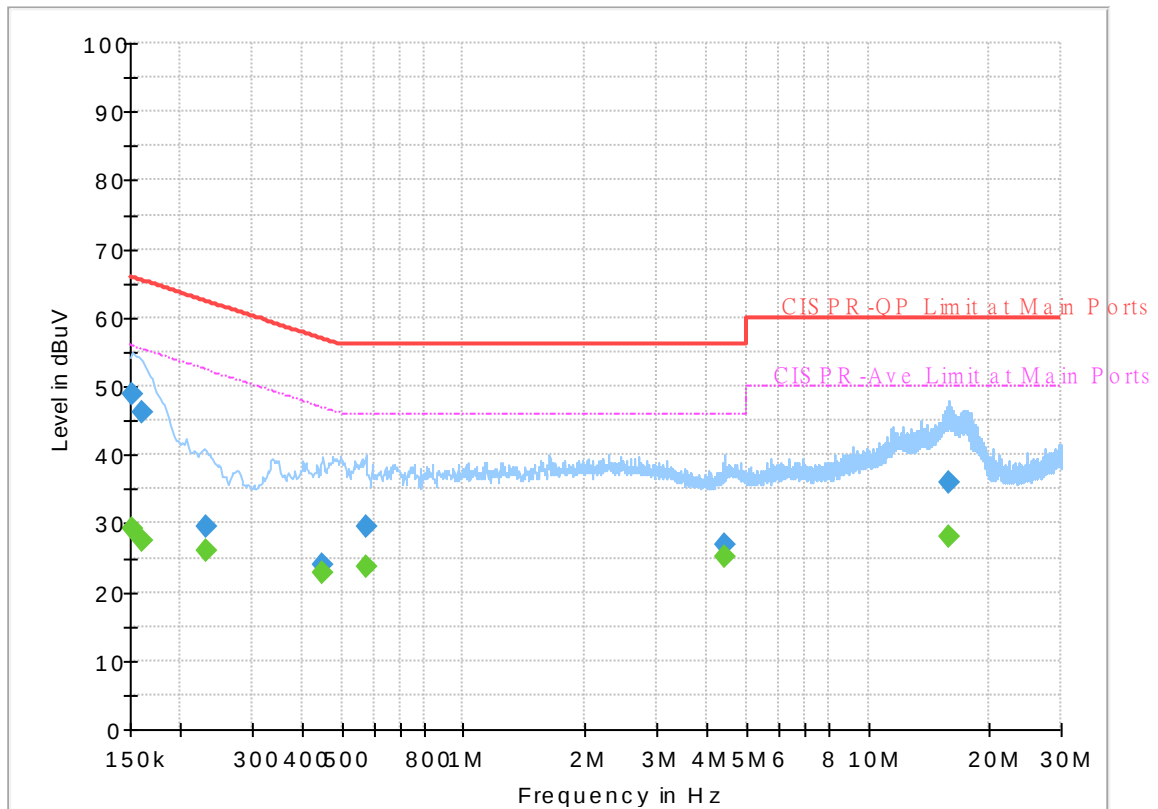
## Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.152250        | ---              | 28.00           | 55.88        | 27.88       | L1   | OFF    | 19.5       |
| 0.152250        | 44.22            | ---             | 65.88        | 21.66       | L1   | OFF    | 19.5       |
| 0.206250        | ---              | 27.53           | 53.36        | 25.83       | L1   | OFF    | 19.5       |
| 0.206250        | 33.18            | ---             | 63.36        | 30.18       | L1   | OFF    | 19.5       |
| 0.503250        | ---              | 25.55           | 46.00        | 20.45       | L1   | OFF    | 19.5       |
| 0.503250        | 31.68            | ---             | 56.00        | 24.32       | L1   | OFF    | 19.5       |
| 0.618000        | ---              | 25.11           | 46.00        | 20.89       | L1   | OFF    | 19.6       |
| 0.618000        | 29.11            | ---             | 56.00        | 26.89       | L1   | OFF    | 19.6       |
| 4.582500        | ---              | 27.48           | 46.00        | 18.52       | L1   | OFF    | 19.7       |
| 4.582500        | 30.14            | ---             | 56.00        | 25.86       | L1   | OFF    | 19.7       |
| 17.436750       | ---              | 27.93           | 50.00        | 22.07       | L1   | OFF    | 20.2       |
| 17.436750       | 36.29            | ---             | 60.00        | 23.71       | L1   | OFF    | 20.2       |

## EUT Information

Report NO : 890804-01  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Neutral

Full Spectrum



## Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.152250        | ---              | 29.11           | 55.88        | 26.77       | N    | OFF    | 19.5       |
| 0.152250        | 48.81            | ---             | 65.88        | 17.07       | N    | OFF    | 19.5       |
| 0.161250        | ---              | 27.48           | 55.40        | 27.92       | N    | OFF    | 19.5       |
| 0.161250        | 46.34            | ---             | 65.40        | 19.06       | N    | OFF    | 19.5       |
| 0.231000        | ---              | 25.91           | 52.41        | 26.50       | N    | OFF    | 19.5       |
| 0.231000        | 29.50            | ---             | 62.41        | 32.91       | N    | OFF    | 19.5       |
| 0.449250        | ---              | 22.70           | 46.89        | 24.19       | N    | OFF    | 19.5       |
| 0.449250        | 24.08            | ---             | 56.89        | 32.81       | N    | OFF    | 19.5       |
| 0.573000        | ---              | 23.62           | 46.00        | 22.38       | N    | OFF    | 19.5       |
| 0.573000        | 29.64            | ---             | 56.00        | 26.36       | N    | OFF    | 19.5       |
| 4.440750        | ---              | 25.08           | 46.00        | 20.92       | N    | OFF    | 19.7       |
| 4.440750        | 26.92            | ---             | 56.00        | 29.08       | N    | OFF    | 19.7       |
| 15.891000       | ---              | 28.08           | 50.00        | 21.92       | N    | OFF    | 20.2       |
| 15.891000       | 35.85            | ---             | 60.00        | 24.15       | N    | OFF    | 20.2       |



## Appendix B. Radiated Spurious Emission

|                 |                                |                     |         |
|-----------------|--------------------------------|---------------------|---------|
| Test Engineer : | Hao Hsu, Ken Wu, and Chuan Zhu | Temperature :       | 21~26°C |
|                 |                                | Relative Humidity : | 51~56%  |

### Band 1 - 5150~5250MHz

#### WIFI 802.11a (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 ) |
| 802.11a<br>CH 36<br>5180MHz |      | 5147.42   | 58         | -16        | 74         | 49.6       | 31.75          | 9.68      | 33.03         | 100     | 89        | P         | H       |
|                             |      | 5150      | 47.22      | -6.78      | 54         | 38.81      | 31.75          | 9.69      | 33.03         | 100     | 89        | A         | H       |
|                             | *    | 5180      | 103.92     | -          | -          | 95.44      | 31.78          | 9.73      | 33.03         | 100     | 89        | P         | H       |
|                             | *    | 5180      | 95.95      | -          | -          | 87.47      | 31.78          | 9.73      | 33.03         | 100     | 89        | A         | H       |
|                             |      |           |            |            |            |            |                |           |               |         |           |           | H       |
|                             |      | 5145.08   | 59.87      | -14.13     | 74         | 51.47      | 31.75          | 9.68      | 33.03         | 100     | 105       | P         | V       |
|                             |      | 5149.5    | 49.1       | -4.9       | 54         | 40.7       | 31.75          | 9.68      | 33.03         | 100     | 105       | A         | V       |
|                             | *    | 5180      | 107.54     | -          | -          | 99.06      | 31.78          | 9.73      | 33.03         | 100     | 105       | P         | V       |
|                             | *    | 5180      | 99.48      | -          | -          | 91         | 31.78          | 9.73      | 33.03         | 100     | 105       | A         | V       |
|                             |      |           |            |            |            |            |                |           |               |         |           |           | V       |
| 802.11a<br>CH 44<br>5220MHz |      | 5127.14   | 50.98      | -23.02     | 74         | 42.63      | 31.73          | 9.65      | 33.03         | 100     | 62        | P         | H       |
|                             |      | 5099.58   | 41.3       | -12.7      | 54         | 33.03      | 31.7           | 9.61      | 33.04         | 100     | 62        | A         | H       |
|                             | *    | 5220      | 104.15     | -          | -          | 95.59      | 31.82          | 9.77      | 33.03         | 100     | 62        | P         | H       |
|                             | *    | 5220      | 96.4       | -          | -          | 87.84      | 31.82          | 9.77      | 33.03         | 100     | 62        | A         | H       |
|                             |      | 5434.9    | 49.36      | -24.64     | 74         | 40.48      | 32.03          | 9.87      | 33.02         | 100     | 62        | P         | H       |
|                             |      | 5425.18   | 40.11      | -13.89     | 54         | 31.25      | 32.02          | 9.86      | 33.02         | 100     | 62        | A         | H       |
|                             |      | 5124.54   | 51.19      | -22.81     | 74         | 42.84      | 31.73          | 9.65      | 33.03         | 100     | 109       | P         | V       |
|                             |      | 5086.06   | 41.2       | -12.8      | 54         | 32.97      | 31.68          | 9.59      | 33.04         | 100     | 109       | A         | V       |
|                             | *    | 5220      | 109.23     | -          | -          | 100.67     | 31.82          | 9.77      | 33.03         | 100     | 109       | P         | V       |
|                             | *    | 5220      | 100.47     | -          | -          | 91.91      | 31.82          | 9.77      | 33.03         | 100     | 109       | A         | V       |
|                             |      | 5439.22   | 50.68      | -23.32     | 74         | 41.79      | 32.03          | 9.88      | 33.02         | 100     | 109       | P         | V       |
|                             |      | 5438.14   | 40.11      | -13.89     | 54         | 31.23      | 32.03          | 9.87      | 33.02         | 100     | 109       | A         | V       |



|                                                  |                                                                                             |         |        |        |    |        |       |      |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5076.44 | 50.13  | -23.87 | 74 | 41.92  | 31.68 | 9.57 | 33.04 | 100 | 58  | P | H |
|                                                  |                                                                                             | 5083.98 | 41.07  | -12.93 | 54 | 32.84  | 31.68 | 9.59 | 33.04 | 100 | 58  | A | H |
|                                                  | *                                                                                           | 5240    | 103.91 | -      | -  | 95.33  | 31.83 | 9.78 | 33.03 | 100 | 58  | P | H |
|                                                  | *                                                                                           | 5240    | 96.27  | -      | -  | 87.69  | 31.83 | 9.78 | 33.03 | 100 | 58  | A | H |
|                                                  |                                                                                             | 5403.85 | 49.73  | -24.27 | 74 | 40.91  | 32    | 9.84 | 33.02 | 100 | 58  | P | H |
|                                                  |                                                                                             | 5440.3  | 40.13  | -13.87 | 54 | 31.24  | 32.03 | 9.88 | 33.02 | 100 | 58  | A | H |
|                                                  |                                                                                             | 5055.38 | 51.85  | -22.15 | 74 | 43.68  | 31.67 | 9.54 | 33.04 | 103 | 106 | P | V |
|                                                  |                                                                                             | 5046.28 | 41.29  | -12.71 | 54 | 33.15  | 31.65 | 9.53 | 33.04 | 103 | 106 | A | V |
|                                                  | *                                                                                           | 5240    | 108.69 | -      | -  | 100.11 | 31.83 | 9.78 | 33.03 | 103 | 106 | P | V |
|                                                  | *                                                                                           | 5240    | 100.51 | -      | -  | 91.93  | 31.83 | 9.78 | 33.03 | 103 | 106 | A | V |
|                                                  |                                                                                             | 5440.3  | 50.02  | -23.98 | 74 | 41.13  | 32.03 | 9.88 | 33.02 | 103 | 106 | P | V |
|                                                  |                                                                                             | 5454.61 | 40.22  | -13.78 | 54 | 31.3   | 32.05 | 9.89 | 33.02 | 103 | 106 | 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<br>Ant.<br>1           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 36<br>5180MHz |                                                                                             | 10360                | 45.23               | -22.97                  | 68.2                        | 50.39                     | 39.51                         | 15.34                  | 60.01                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15540                | 44.15               | -29.85                  | 74                          | 45.41                     | 38                            | 18.79                  | 58.05                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10360                | 45.38               | -22.82                  | 68.2                        | 50.54                     | 39.51                         | 15.34                  | 60.01                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15540                | 43.94               | -30.06                  | 74                          | 45.2                      | 38                            | 18.79                  | 58.05                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11a<br>CH 44<br>5220MHz |                                                                                             | 10440                | 44.93               | -23.27                  | 68.2                        | 50.08                     | 39.61                         | 15.39                  | 60.15                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15660                | 46.31               | -27.69                  | 74                          | 47.69                     | 37.67                         | 18.83                  | 57.88                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10440                | 44.7                | -23.5                   | 68.2                        | 49.85                     | 39.61                         | 15.39                  | 60.15                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15660                | 44.32               | -29.68                  | 74                          | 45.7                      | 37.67                         | 18.83                  | 57.88                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11a<br>CH 48<br>5240MHz |                                                                                             | 10480                | 44.84               | -23.36                  | 68.2                        | 50.01                     | 39.68                         | 15.41                  | 60.26                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15720                | 43.57               | -30.43                  | 74                          | 45.04                     | 37.47                         | 18.85                  | 57.79                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10480                | 46.46               | -21.74                  | 68.2                        | 51.63                     | 39.68                         | 15.41                  | 60.26                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15720                | 43.07               | -30.93                  | 74                          | 44.54                     | 37.47                         | 18.85                  | 57.79                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 1 5150~5250MHz

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

| WIFI<br>Ant.<br>1                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5149.76              | 60.36               | -13.64                  | 74                          | 51.96                     | 31.75                         | 9.68                   | 33.03                      | 100                  | 89                      | P                       | H               |
|                                     |      | 5149.5               | 47.91               | -6.09                   | 54                          | 39.51                     | 31.75                         | 9.68                   | 33.03                      | 100                  | 89                      | A                       | H               |
|                                     | *    | 5180                 | 103.57              | -                       | -                           | 95.09                     | 31.78                         | 9.73                   | 33.03                      | 100                  | 89                      | P                       | H               |
|                                     | *    | 5180                 | 95.89               | -                       | -                           | 87.41                     | 31.78                         | 9.73                   | 33.03                      | 100                  | 89                      | A                       | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |      | 5150                 | 59.59               | -14.41                  | 74                          | 51.18                     | 31.75                         | 9.69                   | 33.03                      | 100                  | 116                     | P                       | V               |
|                                     |      | 5150                 | 50.11               | -3.89                   | 54                          | 41.7                      | 31.75                         | 9.69                   | 33.03                      | 100                  | 116                     | A                       | V               |
|                                     | *    | 5180                 | 107.46              | -                       | -                           | 98.98                     | 31.78                         | 9.73                   | 33.03                      | 100                  | 116                     | P                       | V               |
|                                     | *    | 5180                 | 99.1                | -                       | -                           | 90.62                     | 31.78                         | 9.73                   | 33.03                      | 100                  | 116                     | A                       | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5141.44              | 50.58               | -23.42                  | 74                          | 42.19                     | 31.75                         | 9.67                   | 33.03                      | 100                  | 60                      | P                       | H               |
|                                     |      | 5072.28              | 41.08               | -12.92                  | 54                          | 32.87                     | 31.68                         | 9.57                   | 33.04                      | 100                  | 60                      | A                       | H               |
|                                     | *    | 5220                 | 103.45              | -                       | -                           | 94.89                     | 31.82                         | 9.77                   | 33.03                      | 100                  | 60                      | P                       | H               |
|                                     | *    | 5220                 | 95.83               | -                       | -                           | 87.27                     | 31.82                         | 9.77                   | 33.03                      | 100                  | 60                      | A                       | H               |
|                                     |      | 5372.26              | 50.09               | -23.91                  | 74                          | 41.32                     | 31.97                         | 9.83                   | 33.03                      | 100                  | 60                      | P                       | H               |
|                                     |      | 5431.66              | 40.17               | -13.83                  | 54                          | 31.29                     | 32.03                         | 9.87                   | 33.02                      | 100                  | 60                      | A                       | H               |
|                                     |      | 5111.28              | 50.29               | -23.71                  | 74                          | 41.98                     | 31.72                         | 9.63                   | 33.04                      | 100                  | 106                     | P                       | V               |
|                                     |      | 5143                 | 41.28               | -12.72                  | 54                          | 32.89                     | 31.75                         | 9.67                   | 33.03                      | 100                  | 106                     | A                       | V               |
|                                     | *    | 5220                 | 109.13              | -                       | -                           | 100.57                    | 31.82                         | 9.77                   | 33.03                      | 100                  | 106                     | P                       | V               |
|                                     | *    | 5220                 | 100.45              | -                       | -                           | 91.89                     | 31.82                         | 9.77                   | 33.03                      | 100                  | 106                     | A                       | V               |
|                                     |      | 5418.16              | 48.72               | -25.28                  | 74                          | 39.86                     | 32.02                         | 9.86                   | 33.02                      | 100                  | 106                     | P                       | V               |
|                                     |      | 5451.1               | 40.22               | -13.78                  | 54                          | 31.3                      | 32.05                         | 9.89                   | 33.02                      | 100                  | 106                     | A                       | V               |



|                                                                             |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11n</b><br><br><b>HT20</b><br><br><b>CH 48</b><br><br><b>5240MHz</b> |                                                                                             | 5048.88 | 50.34  | -23.66 | 74 | 42.2  | 31.65 | 9.53 | 33.04 | 100 | 61  | P | H |
|                                                                             |                                                                                             | 5057.72 | 41.01  | -12.99 | 54 | 32.83 | 31.67 | 9.55 | 33.04 | 100 | 61  | A | H |
|                                                                             | *                                                                                           | 5240    | 104.34 | -      | -  | 95.76 | 31.83 | 9.78 | 33.03 | 100 | 61  | P | H |
|                                                                             | *                                                                                           | 5240    | 95.31  | -      | -  | 86.73 | 31.83 | 9.78 | 33.03 | 100 | 61  | A | H |
|                                                                             |                                                                                             | 5457.31 | 50.45  | -23.55 | 74 | 41.53 | 32.05 | 9.89 | 33.02 | 100 | 61  | P | H |
|                                                                             |                                                                                             | 5458.66 | 40.39  | -13.61 | 54 | 31.47 | 32.05 | 9.89 | 33.02 | 100 | 61  | A | H |
|                                                                             |                                                                                             | 5126.36 | 50.26  | -23.74 | 74 | 41.91 | 31.73 | 9.65 | 33.03 | 100 | 107 | P | V |
|                                                                             |                                                                                             | 5085.02 | 41.17  | -12.83 | 54 | 32.94 | 31.68 | 9.59 | 33.04 | 100 | 107 | A | V |
|                                                                             | *                                                                                           | 5240    | 107.48 | -      | -  | 98.9  | 31.83 | 9.78 | 33.03 | 100 | 107 | P | V |
|                                                                             | *                                                                                           | 5240    | 99.36  | -      | -  | 90.78 | 31.83 | 9.78 | 33.03 | 100 | 107 | A | V |
|                                                                             |                                                                                             | 5394.4  | 49.8   | -24.2  | 74 | 41    | 31.98 | 9.84 | 33.02 | 100 | 107 | P | V |
|                                                                             |                                                                                             | 5450.56 | 40.5   | -13.5  | 54 | 31.58 | 32.05 | 9.89 | 33.02 | 100 | 107 | 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 802.11n HT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |                                                                                             | 10360                | 45.55               | -22.65                  | 68.2                        | 50.71                     | 39.51                         | 15.34                  | 60.01                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15540                | 42.85               | -31.15                  | 74                          | 44.11                     | 38                            | 18.79                  | 58.05                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10360                | 45.46               | -22.74                  | 68.2                        | 50.62                     | 39.51                         | 15.34                  | 60.01                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 15540                | 44.53               | -29.47                  | 74                          | 45.79                     | 38                            | 18.79                  | 58.05                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |                                                                                             | 10440                | 44.7                | -23.5                   | 68.2                        | 49.85                     | 39.61                         | 15.39                  | 60.15                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15660                | 44.73               | -29.27                  | 74                          | 46.11                     | 37.67                         | 18.83                  | 57.88                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10440                | 44.53               | -23.67                  | 68.2                        | 49.68                     | 39.61                         | 15.39                  | 60.15                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 15660                | 44.38               | -29.62                  | 74                          | 45.76                     | 37.67                         | 18.83                  | 57.88                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |                                                                                             | 10480                | 45.82               | -22.38                  | 68.2                        | 50.99                     | 39.68                         | 15.41                  | 60.26                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15720                | 44.02               | -29.98                  | 74                          | 45.49                     | 37.47                         | 18.85                  | 57.79                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10480                | 44.51               | -23.69                  | 68.2                        | 49.68                     | 39.68                         | 15.41                  | 60.26                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 15720                | 43.37               | -30.63                  | 74                          | 44.84                     | 37.47                         | 18.85                  | 57.79                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 1 5150~5250MHz

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

| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |                                                                                             | 5149.24              | 57.6                | -16.4                   | 74                          | 49.2                      | 31.75                         | 9.68                   | 33.03                      | 100                  | 61                      | P                       | H               |
|                                     |                                                                                             | 5149.76              | 47.72               | -6.28                   | 54                          | 39.32                     | 31.75                         | 9.68                   | 33.03                      | 100                  | 61                      | A                       | H               |
|                                     | *                                                                                           | 5190                 | 97.7                | -                       | -                           | 89.21                     | 31.78                         | 9.74                   | 33.03                      | 100                  | 61                      | P                       | H               |
|                                     | *                                                                                           | 5190                 | 89.2                | -                       | -                           | 80.71                     | 31.78                         | 9.74                   | 33.03                      | 100                  | 61                      | A                       | H               |
|                                     |                                                                                             | 5457.2               | 50.41               | -23.59                  | 74                          | 41.49                     | 32.05                         | 9.89                   | 33.02                      | 100                  | 61                      | P                       | H               |
|                                     |                                                                                             | 5449.92              | 40.36               | -13.64                  | 54                          | 31.45                     | 32.05                         | 9.88                   | 33.02                      | 100                  | 61                      | A                       | H               |
|                                     |                                                                                             | 5148.72              | 60.32               | -13.68                  | 74                          | 51.92                     | 31.75                         | 9.68                   | 33.03                      | 100                  | 102                     | P                       | V               |
|                                     |                                                                                             | 5150                 | 50.79               | -3.21                   | 54                          | 42.38                     | 31.75                         | 9.69                   | 33.03                      | 100                  | 102                     | A                       | V               |
|                                     | *                                                                                           | 5190                 | 101.04              | -                       | -                           | 92.55                     | 31.78                         | 9.74                   | 33.03                      | 100                  | 102                     | P                       | V               |
|                                     | *                                                                                           | 5190                 | 92.67               | -                       | -                           | 84.18                     | 31.78                         | 9.74                   | 33.03                      | 100                  | 102                     | A                       | V               |
|                                     |                                                                                             | 5433.68              | 49.73               | -24.27                  | 74                          | 40.85                     | 32.03                         | 9.87                   | 33.02                      | 100                  | 102                     | P                       | V               |
|                                     |                                                                                             | 5458.32              | 40.25               | -13.75                  | 54                          | 31.33                     | 32.05                         | 9.89                   | 33.02                      | 100                  | 102                     | A                       | V               |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |                                                                                             | 5115.44              | 51.18               | -22.82                  | 74                          | 42.87                     | 31.72                         | 9.63                   | 33.04                      | 100                  | 63                      | P                       | H               |
|                                     |                                                                                             | 5148.98              | 42.47               | -11.53                  | 54                          | 34.07                     | 31.75                         | 9.68                   | 33.03                      | 100                  | 63                      | A                       | H               |
|                                     | *                                                                                           | 5230                 | 100.89              | -                       | -                           | 92.32                     | 31.83                         | 9.77                   | 33.03                      | 100                  | 63                      | P                       | H               |
|                                     | *                                                                                           | 5230                 | 92.64               | -                       | -                           | 84.07                     | 31.83                         | 9.77                   | 33.03                      | 100                  | 63                      | A                       | H               |
|                                     |                                                                                             | 5458.12              | 50.53               | -23.47                  | 74                          | 41.61                     | 32.05                         | 9.89                   | 33.02                      | 100                  | 63                      | P                       | H               |
|                                     |                                                                                             | 5451.91              | 40.1                | -13.9                   | 54                          | 31.18                     | 32.05                         | 9.89                   | 33.02                      | 100                  | 63                      | A                       | H               |
|                                     |                                                                                             | 5141.7               | 52.39               | -21.61                  | 74                          | 44                        | 31.75                         | 9.67                   | 33.03                      | 100                  | 105                     | P                       | V               |
|                                     |                                                                                             | 5149.76              | 43.67               | -10.33                  | 54                          | 35.27                     | 31.75                         | 9.68                   | 33.03                      | 100                  | 105                     | A                       | V               |
|                                     | *                                                                                           | 5230                 | 105.23              | -                       | -                           | 96.66                     | 31.83                         | 9.77                   | 33.03                      | 100                  | 105                     | P                       | V               |
|                                     | *                                                                                           | 5230                 | 97.22               | -                       | -                           | 88.65                     | 31.83                         | 9.77                   | 33.03                      | 100                  | 105                     | A                       | V               |
|                                     |                                                                                             | 5413.57              | 50.22               | -23.78                  | 74                          | 41.37                     | 32.02                         | 9.85                   | 33.02                      | 100                  | 105                     | P                       | V               |
|                                     |                                                                                             | 5453.26              | 40.38               | -13.62                  | 54                          | 31.46                     | 32.05                         | 9.89                   | 33.02                      | 100                  | 105                     | A                       | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



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

| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |                                                                                             | 10380                | 45.22               | -22.98                  | 68.2                        | 50.37                   | 39.54                         | 15.35                  | 60.04                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15570                | 43.3                | -30.7                   | 74                          | 44.59                   | 37.91                         | 18.8                   | 58                         | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             | 10380                | 45.1                | -23.1                   | 68.2                        | 50.25                   | 39.54                         | 15.35                  | 60.04                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15570                | 43.62               | -30.38                  | 74                          | 44.91                   | 37.91                         | 18.8                   | 58                         | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |                                                                                             | 10460                | 44.78               | -23.42                  | 68.2                        | 49.94                   | 39.63                         | 15.4                   | 60.19                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15690                | 43.58               | -30.42                  | 74                          | 45                      | 37.57                         | 18.84                  | 57.83                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             | 10460                | 44.5                | -23.7                   | 68.2                        | 49.66                   | 39.63                         | 15.4                   | 60.19                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15690                | 44                  | -30                     | 74                          | 45.42                   | 37.57                         | 18.84                  | 57.83                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       |               |



## Band 2 - 5250~5350MHz

## WIFI 802.11a (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 |      | 5102      | 49.95      | -24.05 | 74         | 41.68    | 31.7     | 9.61   | 33.04  | 100    | 87      | P       | H       |
|                             |      | 5089.76   | 41.07      | -12.93 | 54         | 32.82    | 31.7     | 9.59   | 33.04  | 100    | 87      | A       | H       |
|                             | *    | 5260      | 103.24     | -      | -          | 94.62    | 31.87    | 9.78   | 33.03  | 100    | 87      | P       | H       |
|                             | *    | 5260      | 95.9       | -      | -          | 87.28    | 31.87    | 9.78   | 33.03  | 100    | 87      | A       | H       |
|                             |      | 5442.72   | 49.72      | -24.28 | 74         | 40.83    | 32.03    | 9.88   | 33.02  | 100    | 87      | P       | H       |
|                             |      | 5451.36   | 40.12      | -13.88 | 54         | 31.2     | 32.05    | 9.89   | 33.02  | 100    | 87      | A       | H       |
|                             |      | 5014.62   | 51         | -23    | 74         | 42.94    | 31.62    | 9.48   | 33.04  | 100    | 105     | P       | V       |
|                             |      | 5134.98   | 41.25      | -12.75 | 54         | 32.89    | 31.73    | 9.66   | 33.03  | 100    | 105     | A       | V       |
|                             | *    | 5260      | 108.17     | -      | -          | 99.55    | 31.87    | 9.78   | 33.03  | 100    | 105     | P       | V       |
|                             | *    | 5260      | 100.23     | -      | -          | 91.61    | 31.87    | 9.78   | 33.03  | 100    | 105     | A       | V       |
|                             |      | 5448.72   | 49.74      | -24.26 | 74         | 40.83    | 32.05    | 9.88   | 33.02  | 100    | 105     | P       | V       |
|                             |      | 5452.8    | 40.27      | -13.73 | 54         | 31.35    | 32.05    | 9.89   | 33.02  | 100    | 105     | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5093.84   | 50.36      | -23.64 | 74         | 42.1     | 31.7     | 9.6    | 33.04  | 100    | 59      | P       | H       |
|                             |      | 5053.38   | 41.04      | -12.96 | 54         | 32.89    | 31.65    | 9.54   | 33.04  | 100    | 59      | A       | H       |
|                             | *    | 5300      | 102.99     | -      | -          | 94.32    | 31.9     | 9.8    | 33.03  | 100    | 59      | P       | H       |
|                             | *    | 5300      | 95.68      | -      | -          | 87.01    | 31.9     | 9.8    | 33.03  | 100    | 59      | A       | H       |
|                             |      | 5352.72   | 50.59      | -23.41 | 74         | 41.85    | 31.95    | 9.82   | 33.03  | 100    | 59      | P       | H       |
|                             |      | 5352.24   | 42.73      | -11.27 | 54         | 33.99    | 31.95    | 9.82   | 33.03  | 100    | 59      | A       | H       |
|                             |      | 5080.58   | 50.8       | -23.2  | 74         | 42.58    | 31.68    | 9.58   | 33.04  | 100    | 105     | P       | V       |
|                             |      | 5052.02   | 41.16      | -12.84 | 54         | 33.01    | 31.65    | 9.54   | 33.04  | 100    | 105     | A       | V       |
|                             | *    | 5300      | 107.92     | -      | -          | 99.25    | 31.9     | 9.8    | 33.03  | 100    | 105     | P       | V       |
|                             | *    | 5300      | 99.95      | -      | -          | 91.28    | 31.9     | 9.8    | 33.03  | 100    | 105     | A       | V       |
|                             |      | 5353.44   | 52.94      | -21.06 | 74         | 44.2     | 31.95    | 9.82   | 33.03  | 100    | 105     | P       | V       |
|                             |      | 5352.24   | 45.81      | -8.19  | 54         | 37.07    | 31.95    | 9.82   | 33.03  | 100    | 105     | A       | V       |



|                                      |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 64<br/>5320MHz</b> | *                                                                                           | 5320    | 102.42 | -      | -  | 93.72 | 31.92 | 9.81 | 33.03 | 100 | 62  | P | H |
|                                      | *                                                                                           | 5320    | 94.52  | -      | -  | 85.82 | 31.92 | 9.81 | 33.03 | 100 | 62  | A | H |
|                                      |                                                                                             | 5352.64 | 56.22  | -17.78 | 74 | 47.48 | 31.95 | 9.82 | 33.03 | 100 | 62  | P | H |
|                                      |                                                                                             | 5350.08 | 44.76  | -9.24  | 54 | 36.02 | 31.95 | 9.82 | 33.03 | 100 | 62  | A | H |
|                                      |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                      |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                      | *                                                                                           | 5320    | 107.14 | -      | -  | 98.44 | 31.92 | 9.81 | 33.03 | 100 | 116 | P | V |
|                                      | *                                                                                           | 5320    | 99.23  | -      | -  | 90.53 | 31.92 | 9.81 | 33.03 | 100 | 116 | A | V |
|                                      |                                                                                             | 5350.24 | 62.45  | -11.55 | 74 | 53.71 | 31.95 | 9.82 | 33.03 | 100 | 116 | P | V |
|                                      |                                                                                             | 5350.08 | 48.47  | -5.53  | 54 | 39.73 | 31.95 | 9.82 | 33.03 | 100 | 116 | A | V |
|                                      |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
|                                      |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |      |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 52<br>5260MHz |                                                                                             | 10520                | 44.9                | -23.3                   | 68.2                        | 50.1                      | 39.71                         | 15.43                  | 60.34                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15780                | 43.7                | -30.3                   | 74                          | 45.22                     | 37.33                         | 18.86                  | 57.71                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10520                | 45.17               | -23.03                  | 68.2                        | 50.37                     | 39.71                         | 15.43                  | 60.34                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15780                | 42.85               | -31.15                  | 74                          | 44.37                     | 37.33                         | 18.86                  | 57.71                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11a<br>CH 60<br>5300MHz |                                                                                             | 10600                | 43.57               | -30.43                  | 74                          | 48.86                     | 39.78                         | 15.48                  | 60.55                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15900                | 42.74               | -31.26                  | 74                          | 44.38                     | 36.99                         | 18.91                  | 57.54                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10600                | 43.92               | -30.08                  | 74                          | 49.21                     | 39.78                         | 15.48                  | 60.55                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15900                | 42.88               | -31.12                  | 74                          | 44.52                     | 36.99                         | 18.91                  | 57.54                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11a<br>CH 64<br>5320MHz |                                                                                             | 10640                | 42.5                | -31.5                   | 74                          | 47.83                     | 39.81                         | 15.49                  | 60.63                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15960                | 41.82               | -32.18                  | 74                          | 43.54                     | 36.8                          | 18.93                  | 57.45                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10640                | 43.5                | -30.5                   | 74                          | 48.83                     | 39.81                         | 15.49                  | 60.63                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15960                | 42.63               | -31.37                  | 74                          | 44.35                     | 36.8                          | 18.93                  | 57.45                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 2 5250~5350MHz

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

| WIFI<br>Ant.<br>1                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5140.08              | 51.08               | -22.92                  | 74                          | 42.69                     | 31.75                         | 9.67                   | 33.03                      | 100                  | 90                      | P                       | H               |
|                                     |      | 5098.6               | 41.28               | -12.72                  | 54                          | 33.01                     | 31.7                          | 9.61                   | 33.04                      | 100                  | 90                      | A                       | H               |
|                                     | *    | 5260                 | 104.32              | -                       | -                           | 95.7                      | 31.87                         | 9.78                   | 33.03                      | 100                  | 90                      | P                       | H               |
|                                     | *    | 5260                 | 96.12               | -                       | -                           | 87.5                      | 31.87                         | 9.78                   | 33.03                      | 100                  | 90                      | A                       | H               |
|                                     |      | 5389.2               | 49.17               | -24.83                  | 74                          | 40.37                     | 31.98                         | 9.84                   | 33.02                      | 100                  | 90                      | P                       | H               |
|                                     |      | 5454.96              | 40.42               | -13.58                  | 54                          | 31.5                      | 32.05                         | 9.89                   | 33.02                      | 100                  | 90                      | A                       | H               |
|                                     |      | 5069.36              | 51.01               | -22.99                  | 74                          | 42.82                     | 31.67                         | 9.56                   | 33.04                      | 100                  | 97                      | P                       | V               |
|                                     |      | 5097.92              | 41.29               | -12.71                  | 54                          | 33.02                     | 31.7                          | 9.61                   | 33.04                      | 100                  | 97                      | A                       | V               |
|                                     | *    | 5260                 | 108.59              | -                       | -                           | 99.97                     | 31.87                         | 9.78                   | 33.03                      | 100                  | 97                      | P                       | V               |
|                                     | *    | 5260                 | 99.92               | -                       | -                           | 91.3                      | 31.87                         | 9.78                   | 33.03                      | 100                  | 97                      | A                       | V               |
|                                     |      | 5350.08              | 50.02               | -23.98                  | 74                          | 41.28                     | 31.95                         | 9.82                   | 33.03                      | 100                  | 97                      | P                       | V               |
|                                     |      | 5453.28              | 40.91               | -13.09                  | 54                          | 31.99                     | 32.05                         | 9.89                   | 33.02                      | 100                  | 97                      | A                       | V               |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5091.46              | 49.46               | -24.54                  | 74                          | 41.2                      | 31.7                          | 9.6                    | 33.04                      | 100                  | 88                      | P                       | H               |
|                                     |      | 5059.5               | 41.06               | -12.94                  | 54                          | 32.88                     | 31.67                         | 9.55                   | 33.04                      | 100                  | 88                      | A                       | H               |
|                                     | *    | 5300                 | 103.7               | -                       | -                           | 95.03                     | 31.9                          | 9.8                    | 33.03                      | 100                  | 88                      | P                       | H               |
|                                     | *    | 5300                 | 95.87               | -                       | -                           | 87.2                      | 31.9                          | 9.8                    | 33.03                      | 100                  | 88                      | A                       | H               |
|                                     |      | 5352.72              | 50.19               | -23.81                  | 74                          | 41.45                     | 31.95                         | 9.82                   | 33.03                      | 100                  | 88                      | P                       | H               |
|                                     |      | 5352                 | 42.97               | -11.03                  | 54                          | 34.23                     | 31.95                         | 9.82                   | 33.03                      | 100                  | 88                      | A                       | H               |
|                                     |      | 5045.9               | 50.25               | -23.75                  | 74                          | 42.11                     | 31.65                         | 9.53                   | 33.04                      | 100                  | 106                     | P                       | V               |
|                                     |      | 5052.02              | 41.08               | -12.92                  | 54                          | 32.93                     | 31.65                         | 9.54                   | 33.04                      | 100                  | 106                     | A                       | V               |
|                                     | *    | 5300                 | 107.73              | -                       | -                           | 99.06                     | 31.9                          | 9.8                    | 33.03                      | 100                  | 106                     | P                       | V               |
|                                     | *    | 5300                 | 99.37               | -                       | -                           | 90.7                      | 31.9                          | 9.8                    | 33.03                      | 100                  | 106                     | A                       | V               |
|                                     |      | 5352.96              | 51.45               | -22.55                  | 74                          | 42.71                     | 31.95                         | 9.82                   | 33.03                      | 100                  | 106                     | P                       | V               |
|                                     |      | 5352.24              | 45.7                | -8.3                    | 54                          | 36.96                     | 31.95                         | 9.82                   | 33.03                      | 100                  | 106                     | A                       | V               |



|                                               |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|-----------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11n<br/>HT20<br/>CH 64<br/>5320MHz</b> | *                                                                                           | 5320    | 102.22 | -      | -  | 93.52 | 31.92 | 9.81 | 33.03 | 114 | 118 | P | H |
|                                               | *                                                                                           | 5320    | 94.63  | -      | -  | 85.93 | 31.92 | 9.81 | 33.03 | 114 | 118 | A | H |
|                                               |                                                                                             | 5350.08 | 56.72  | -17.28 | 74 | 47.98 | 31.95 | 9.82 | 33.03 | 114 | 118 | P | H |
|                                               |                                                                                             | 5350.08 | 45.51  | -8.49  | 54 | 36.77 | 31.95 | 9.82 | 33.03 | 114 | 118 | A | H |
|                                               |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                               |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                               | *                                                                                           | 5320    | 108.26 | -      | -  | 99.56 | 31.92 | 9.81 | 33.03 | 100 | 116 | P | V |
|                                               | *                                                                                           | 5320    | 99.01  | -      | -  | 90.31 | 31.92 | 9.81 | 33.03 | 100 | 116 | A | V |
|                                               |                                                                                             | 5354.4  | 62.84  | -11.16 | 74 | 54.1  | 31.95 | 9.82 | 33.03 | 100 | 116 | P | V |
|                                               |                                                                                             | 5350.4  | 48.74  | -5.26  | 54 | 40    | 31.95 | 9.82 | 33.03 | 100 | 116 | A | V |
|                                               |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
|                                               |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
| <b>Remark</b>                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |      |       |     |     |   |   |



**Band 2 5250~5350MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |                                                                                             | 10520                | 44.64               | -23.56                  | 68.2                        | 49.84                     | 39.71                         | 15.43                  | 60.34                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15780                | 43.55               | -30.45                  | 74                          | 45.07                     | 37.33                         | 18.86                  | 57.71                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10520                | 44.84               | -23.36                  | 68.2                        | 50.04                     | 39.71                         | 15.43                  | 60.34                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 15780                | 43.73               | -30.27                  | 74                          | 45.25                     | 37.33                         | 18.86                  | 57.71                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |                                                                                             | 10600                | 43.6                | -30.4                   | 74                          | 48.89                     | 39.78                         | 15.48                  | 60.55                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15900                | 43.3                | -30.7                   | 74                          | 44.94                     | 36.99                         | 18.91                  | 57.54                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10600                | 43                  | -31                     | 74                          | 48.29                     | 39.78                         | 15.48                  | 60.55                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 15900                | 42.96               | -31.04                  | 74                          | 44.6                      | 36.99                         | 18.91                  | 57.54                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |                                                                                             | 10640                | 43.48               | -30.52                  | 74                          | 48.81                     | 39.81                         | 15.49                  | 60.63                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15960                | 43.06               | -30.94                  | 74                          | 44.78                     | 36.8                          | 18.93                  | 57.45                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10640                | 43.83               | -30.17                  | 74                          | 49.16                     | 39.81                         | 15.49                  | 60.63                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 15960                | 42                  | -32                     | 74                          | 43.72                     | 36.8                          | 18.93                  | 57.45                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Band 2 5250~5350MHz

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

| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |                                                                                             | 5020.06              | 52.4                | -21.6                   | 74                          | 44.33                     | 31.62                         | 9.49                   | 33.04                      | 100                  | 63                      | P                       | H               |
|                                     |                                                                                             | 5071.06              | 41.44               | -12.56                  | 54                          | 33.24                     | 31.67                         | 9.57                   | 33.04                      | 100                  | 63                      | A                       | H               |
|                                     | *                                                                                           | 5270                 | 101.01              | -                       | -                           | 92.38                     | 31.87                         | 9.79                   | 33.03                      | 100                  | 63                      | P                       | H               |
|                                     | *                                                                                           | 5270                 | 92.71               | -                       | -                           | 84.08                     | 31.87                         | 9.79                   | 33.03                      | 100                  | 63                      | A                       | H               |
|                                     |                                                                                             | 5359.92              | 52.02               | -21.98                  | 74                          | 43.28                     | 31.95                         | 9.82                   | 33.03                      | 100                  | 63                      | P                       | H               |
|                                     |                                                                                             | 5351.04              | 41.06               | -12.94                  | 54                          | 32.32                     | 31.95                         | 9.82                   | 33.03                      | 100                  | 63                      | A                       | H               |
|                                     |                                                                                             | 5093.5               | 51.14               | -22.86                  | 74                          | 42.88                     | 31.7                          | 9.6                    | 33.04                      | 100                  | 98                      | P                       | V               |
|                                     |                                                                                             | 5061.88              | 41.22               | -12.78                  | 54                          | 33.04                     | 31.67                         | 9.55                   | 33.04                      | 100                  | 98                      | A                       | V               |
|                                     | *                                                                                           | 5270                 | 105.07              | -                       | -                           | 96.44                     | 31.87                         | 9.79                   | 33.03                      | 100                  | 98                      | P                       | V               |
|                                     | *                                                                                           | 5270                 | 96.56               | -                       | -                           | 87.93                     | 31.87                         | 9.79                   | 33.03                      | 100                  | 98                      | A                       | V               |
|                                     |                                                                                             | 5366.88              | 52.39               | -21.61                  | 74                          | 43.62                     | 31.97                         | 9.83                   | 33.03                      | 100                  | 98                      | P                       | V               |
|                                     |                                                                                             | 5350.08              | 43.17               | -10.83                  | 54                          | 34.43                     | 31.95                         | 9.82                   | 33.03                      | 100                  | 98                      | A                       | V               |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |                                                                                             | 5063.92              | 49.76               | -24.24                  | 74                          | 41.57                     | 31.67                         | 9.56                   | 33.04                      | 100                  | 91                      | P                       | H               |
|                                     |                                                                                             | 5049.3               | 41.05               | -12.95                  | 54                          | 32.91                     | 31.65                         | 9.53                   | 33.04                      | 100                  | 91                      | A                       | H               |
|                                     | *                                                                                           | 5310                 | 98.23               | -                       | -                           | 89.54                     | 31.92                         | 9.8                    | 33.03                      | 100                  | 91                      | P                       | H               |
|                                     | *                                                                                           | 5310                 | 89.26               | -                       | -                           | 80.57                     | 31.92                         | 9.8                    | 33.03                      | 100                  | 91                      | A                       | H               |
|                                     |                                                                                             | 5350.08              | 54.1                | -19.9                   | 74                          | 45.36                     | 31.95                         | 9.82                   | 33.03                      | 100                  | 91                      | P                       | H               |
|                                     |                                                                                             | 5350.08              | 47.1                | -6.9                    | 54                          | 38.36                     | 31.95                         | 9.82                   | 33.03                      | 100                  | 91                      | A                       | H               |
|                                     |                                                                                             | 5099.96              | 49.79               | -24.21                  | 74                          | 41.52                     | 31.7                          | 9.61                   | 33.04                      | 100                  | 110                     | P                       | V               |
|                                     |                                                                                             | 5085                 | 41.11               | -12.89                  | 54                          | 32.88                     | 31.68                         | 9.59                   | 33.04                      | 100                  | 110                     | A                       | V               |
|                                     | *                                                                                           | 5310                 | 102.61              | -                       | -                           | 93.92                     | 31.92                         | 9.8                    | 33.03                      | 100                  | 110                     | P                       | V               |
|                                     | *                                                                                           | 5310                 | 93.24               | -                       | -                           | 84.55                     | 31.92                         | 9.8                    | 33.03                      | 100                  | 110                     | A                       | V               |
|                                     |                                                                                             | 5352.96              | 62.77               | -11.23                  | 74                          | 54.03                     | 31.95                         | 9.82                   | 33.03                      | 100                  | 110                     | P                       | V               |
|                                     |                                                                                             | 5350.08              | 50.7                | -3.3                    | 54                          | 41.96                     | 31.95                         | 9.82                   | 33.03                      | 100                  | 110                     | 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 802.11n HT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |                                                                                             | 10540                | 43.9                | -24.3                   | 68.2                        | 49.1                    | 39.73                         | 15.45                  | 60.38                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15810                | 42.78               | -31.22                  | 74                          | 44.34                   | 37.23                         | 18.88                  | 57.67                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             | 10540                | 44.32               | -23.88                  | 68.2                        | 49.52                   | 39.73                         | 15.45                  | 60.38                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15810                | 43.14               | -30.86                  | 74                          | 44.7                    | 37.23                         | 18.88                  | 57.67                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |                                                                                             | 10620                | 43.15               | -30.85                  | 74                          | 48.46                   | 39.8                          | 15.48                  | 60.59                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15930                | 41.62               | -32.38                  | 74                          | 43.31                   | 36.89                         | 18.92                  | 57.5                       | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                                     |                                                                                             | 10620                | 43.54               | -30.46                  | 74                          | 48.85                   | 39.8                          | 15.48                  | 60.59                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15930                | 42.74               | -31.26                  | 74                          | 44.43                   | 36.89                         | 18.92                  | 57.5                       | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | 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 ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5459.76   | 50.94      | -23.06 | 74         | 42.02    | 32.05    | 9.89   | 33.02  | 100    | 62      | P       | H       |
|                              |      | 5470      | 53.55      | -14.65 | 68.2       | 44.6     | 32.07    | 9.9    | 33.02  | 100    | 62      | P       | H       |
|                              |      | 5448.08   | 41.45      | -12.55 | 54         | 32.54    | 32.05    | 9.88   | 33.02  | 100    | 62      | A       | H       |
|                              | *    | 5500      | 100.84     | -      | -          | 91.83    | 32.1     | 9.93   | 33.02  | 100    | 62      | P       | H       |
|                              | *    | 5500      | 92.25      | -      | -          | 83.24    | 32.1     | 9.93   | 33.02  | 100    | 62      | A       | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      | 5460.08   | 53.2       | -15    | 68.2       | 44.28    | 32.05    | 9.89   | 33.02  | 100    | 105     | P       | V       |
|                              |      | 5470      | 59.68      | -8.52  | 68.2       | 50.73    | 32.07    | 9.9    | 33.02  | 100    | 105     | P       | V       |
|                              |      | 5447.6    | 44.3       | -9.7   | 54         | 35.39    | 32.05    | 9.88   | 33.02  | 100    | 105     | A       | V       |
|                              | *    | 5500      | 105.17     | -      | -          | 96.16    | 32.1     | 9.93   | 33.02  | 100    | 105     | P       | V       |
|                              | *    | 5500      | 97.31      | -      | -          | 88.3     | 32.1     | 9.93   | 33.02  | 100    | 105     | A       | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 116<br>5580MHz |      | 5457.28   | 49.59      | -24.41 | 74         | 40.67    | 32.05    | 9.89   | 33.02  | 100    | 63      | P       | H       |
|                              |      | 5462.8    | 48.66      | -19.54 | 68.2       | 39.71    | 32.07    | 9.9    | 33.02  | 100    | 63      | P       | H       |
|                              |      | 5432.32   | 40.25      | -13.75 | 54         | 31.37    | 32.03    | 9.87   | 33.02  | 100    | 63      | A       | H       |
|                              | *    | 5580      | 103.61     | -      | -          | 94.46    | 32.22    | 10     | 33.07  | 100    | 63      | P       | H       |
|                              | *    | 5580      | 94.13      | -      | -          | 84.98    | 32.22    | 10     | 33.07  | 100    | 63      | A       | H       |
|                              |      | 5764.055  | 49.69      | -18.51 | 68.2       | 40.03    | 32.57    | 10.25  | 33.16  | 100    | 63      | P       | H       |
|                              |      | 5373.52   | 50.27      | -23.73 | 74         | 41.49    | 31.97    | 9.83   | 33.02  | 114    | 112     | P       | V       |
|                              |      | 5468.8    | 50.23      | -17.97 | 68.2       | 41.28    | 32.07    | 9.9    | 33.02  | 114    | 112     | P       | V       |
|                              |      | 5452      | 40.44      | -13.56 | 54         | 31.52    | 32.05    | 9.89   | 33.02  | 114    | 112     | A       | V       |
|                              | *    | 5580      | 107.9      | -      | -          | 98.75    | 32.22    | 10     | 33.07  | 114    | 112     | P       | V       |
|                              | *    | 5580      | 98.62      | -      | -          | 89.47    | 32.22    | 10     | 33.07  | 114    | 112     | A       | V       |
|                              |      | 5748.305  | 48.94      | -19.26 | 68.2       | 39.33    | 32.53    | 10.23  | 33.15  | 114    | 112     | P       | V       |



|                                       |                                                                                             |         |        |        |      |       |       |       |       |     |     |   |   |
|---------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|------|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *                                                                                           | 5700    | 100.54 | -      | -    | 91.06 | 32.44 | 10.16 | 33.12 | 100 | 63  | P | H |
|                                       | *                                                                                           | 5700    | 92.55  | -      | -    | 83.07 | 32.44 | 10.16 | 33.12 | 100 | 63  | A | H |
|                                       |                                                                                             | 5726.12 | 55.59  | -12.61 | 68.2 | 46.02 | 32.5  | 10.2  | 33.13 | 100 | 63  | P | H |
|                                       |                                                                                             |         |        |        |      |       |       |       |       |     |     |   | H |
|                                       |                                                                                             |         |        |        |      |       |       |       |       |     |     |   | H |
|                                       |                                                                                             |         |        |        |      |       |       |       |       |     |     |   | H |
|                                       | *                                                                                           | 5700    | 105.31 | -      | -    | 95.83 | 32.44 | 10.16 | 33.12 | 100 | 114 | P | V |
|                                       | *                                                                                           | 5700    | 97.17  | -      | -    | 87.69 | 32.44 | 10.16 | 33.12 | 100 | 114 | A | V |
|                                       |                                                                                             | 5725.4  | 59.02  | -9.18  | 68.2 | 49.45 | 32.5  | 10.2  | 33.13 | 100 | 114 | P | V |
|                                       |                                                                                             |         |        |        |      |       |       |       |       |     |     |   | V |
|                                       |                                                                                             |         |        |        |      |       |       |       |       |     |     |   | V |
|                                       |                                                                                             |         |        |        |      |       |       |       |       |     |     |   | V |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |      |       |       |       |       |     |     |   |   |



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

| WIFI<br>Ant.<br>1            | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 100<br>5500MHz |                                                                                             | 11000                | 45.26               | -28.74                  | 74                          | 50.96                   | 40.1                          | 15.7                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                              |                                                                                             | 16500                | 44.82               | -23.38                  | 68.2                        | 44.21                   | 38.5                          | 19.41                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                              |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                              |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                              |                                                                                             | 11000                | 46.21               | -27.79                  | 74                          | 51.91                   | 40.1                          | 15.7                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                              |                                                                                             | 16500                | 43.84               | -24.36                  | 68.2                        | 43.23                   | 38.5                          | 19.41                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                              |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                              |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 116<br>5580MHz |                                                                                             | 11160                | 46.21               | -27.79                  | 74                          | 51.88                   | 40.07                         | 15.79                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                              |                                                                                             | 16740                | 47.01               | -21.19                  | 68.2                        | 45.12                   | 39.08                         | 19.63                  | 56.82                      | 100                  | 0                       | P                     | H             |
|                              |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                              |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                              |                                                                                             | 11160                | 46.14               | -27.86                  | 74                          | 51.81                   | 40.07                         | 15.79                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                              |                                                                                             | 16740                | 44.89               | -23.31                  | 68.2                        | 43                      | 39.08                         | 19.63                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                              |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                              |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 140<br>5700MHz |                                                                                             | 11400                | 44.78               | -29.22                  | 74                          | 50.42                   | 40.02                         | 15.92                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                              |                                                                                             | 17100                | 46.4                | -21.8                   | 68.2                        | 42.46                   | 40.06                         | 19.96                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                              |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                              |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | H             |
|                              |                                                                                             | 11400                | 45.02               | -28.98                  | 74                          | 50.66                   | 40.02                         | 15.92                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                              |                                                                                             | 17100                | 47.65               | -20.55                  | 68.2                        | 43.71                   | 40.06                         | 19.96                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                              |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | V             |
|                              |                                                                                             |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                        |                            |                      |                         |                       |               |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                              | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11n<br/>HT20<br/>CH 100<br/>5500MHz</b> |      | 5454                 | 51.64               | -22.36                  | 74                          | 42.72                     | 32.05                         | 9.89                   | 33.02                      | 103                  | 62                      | P                       | H               |
|                                                |      | 5465.84              | 57.93               | -10.27                  | 68.2                        | 48.98                     | 32.07                         | 9.9                    | 33.02                      | 103                  | 62                      | P                       | H               |
|                                                |      | 5448.08              | 42.27               | -11.73                  | 54                          | 33.36                     | 32.05                         | 9.88                   | 33.02                      | 103                  | 62                      | A                       | H               |
|                                                | *    | 5500                 | 99.8                | -                       | -                           | 90.79                     | 32.1                          | 9.93                   | 33.02                      | 103                  | 62                      | P                       | H               |
|                                                | *    | 5500                 | 91.71               | -                       | -                           | 82.7                      | 32.1                          | 9.93                   | 33.02                      | 103                  | 62                      | A                       | H               |
|                                                |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                                |      | 5459.92              | 54.45               | -19.55                  | 74                          | 45.53                     | 32.05                         | 9.89                   | 33.02                      | 100                  | 115                     | P                       | V               |
|                                                |      | 5467.44              | 61.97               | -6.23                   | 68.2                        | 53.02                     | 32.07                         | 9.9                    | 33.02                      | 100                  | 115                     | P                       | V               |
|                                                |      | 5448.24              | 45.52               | -8.48                   | 54                          | 36.61                     | 32.05                         | 9.88                   | 33.02                      | 100                  | 115                     | A                       | V               |
|                                                | *    | 5500                 | 106.81              | -                       | -                           | 97.8                      | 32.1                          | 9.93                   | 33.02                      | 100                  | 115                     | P                       | V               |
|                                                | *    | 5500                 | 98.02               | -                       | -                           | 89.01                     | 32.1                          | 9.93                   | 33.02                      | 100                  | 115                     | A                       | V               |
|                                                |      |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| <b>802.11n<br/>HT20<br/>CH 116<br/>5580MHz</b> |      | 5424.88              | 49.85               | -24.15                  | 74                          | 40.99                     | 32.02                         | 9.86                   | 33.02                      | 100                  | 60                      | P                       | H               |
|                                                |      | 5464                 | 49.48               | -18.72                  | 68.2                        | 40.53                     | 32.07                         | 9.9                    | 33.02                      | 100                  | 60                      | P                       | H               |
|                                                |      | 5458.96              | 40.45               | -13.55                  | 54                          | 31.53                     | 32.05                         | 9.89                   | 33.02                      | 100                  | 60                      | A                       | H               |
|                                                | *    | 5580                 | 102.19              | -                       | -                           | 93.04                     | 32.22                         | 10                     | 33.07                      | 100                  | 60                      | P                       | H               |
|                                                | *    | 5580                 | 94.68               | -                       | -                           | 85.53                     | 32.22                         | 10                     | 33.07                      | 100                  | 60                      | A                       | H               |
|                                                |      | 5735.705             | 51.12               | -17.08                  | 68.2                        | 41.53                     | 32.53                         | 10.21                  | 33.15                      | 100                  | 60                      | P                       | H               |
|                                                |      | 5451.04              | 49.78               | -24.22                  | 74                          | 40.86                     | 32.05                         | 9.89                   | 33.02                      | 100                  | 106                     | P                       | V               |
|                                                |      | 5460.4               | 49.18               | -19.02                  | 68.2                        | 40.26                     | 32.05                         | 9.89                   | 33.02                      | 100                  | 106                     | P                       | V               |
|                                                |      | 5428.24              | 40.32               | -13.68                  | 54                          | 31.45                     | 32.02                         | 9.87                   | 33.02                      | 100                  | 106                     | A                       | V               |
|                                                | *    | 5580                 | 105.71              | -                       | -                           | 96.56                     | 32.22                         | 10                     | 33.07                      | 100                  | 106                     | P                       | V               |
|                                                | *    | 5580                 | 97.86               | -                       | -                           | 88.71                     | 32.22                         | 10                     | 33.07                      | 100                  | 106                     | A                       | V               |
|                                                |      | 5756.18              | 50.5                | -17.7                   | 68.2                        | 40.85                     | 32.57                         | 10.24                  | 33.16                      | 100                  | 106                     | P                       | V               |



|                                                |                                                                                             |         |        |       |      |       |       |       |       |     |     |   |   |
|------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|------|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n<br/>HT20<br/>CH 140<br/>5700MHz</b> | *                                                                                           | 5700    | 101.91 | -     | -    | 92.43 | 32.44 | 10.16 | 33.12 | 100 | 63  | P | H |
|                                                | *                                                                                           | 5700    | 92.97  | -     | -    | 83.49 | 32.44 | 10.16 | 33.12 | 100 | 63  | A | H |
|                                                |                                                                                             | 5725.16 | 61.65  | -6.55 | 68.2 | 52.08 | 32.5  | 10.2  | 33.13 | 100 | 63  | P | H |
|                                                |                                                                                             |         |        |       |      |       |       |       |       |     |     |   | H |
|                                                |                                                                                             |         |        |       |      |       |       |       |       |     |     |   | H |
|                                                |                                                                                             |         |        |       |      |       |       |       |       |     |     |   | H |
|                                                | *                                                                                           | 5700    | 105.11 | -     | -    | 95.63 | 32.44 | 10.16 | 33.12 | 100 | 114 | P | V |
|                                                | *                                                                                           | 5700    | 96.37  | -     | -    | 86.89 | 32.44 | 10.16 | 33.12 | 100 | 114 | A | V |
|                                                |                                                                                             | 5725    | 63.3   | -4.9  | 68.2 | 53.73 | 32.5  | 10.2  | 33.13 | 100 | 114 | P | V |
|                                                |                                                                                             |         |        |       |      |       |       |       |       |     |     |   | V |
|                                                |                                                                                             |         |        |       |      |       |       |       |       |     |     |   | V |
|                                                |                                                                                             |         |        |       |      |       |       |       |       |     |     |   | V |
| <b>Remark</b>                                  | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |       |       |       |       |     |     |   |   |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |                                                                                             | 11000                | 45.28               | -28.72                  | 74                          | 50.98                     | 40.1                          | 15.7                   | 61.5                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 16500                | 44.8                | -23.4                   | 68.2                        | 44.19                     | 38.5                          | 19.41                  | 57.3                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11000                | 44.49               | -29.51                  | 74                          | 50.19                     | 40.1                          | 15.7                   | 61.5                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 16500                | 43.73               | -24.47                  | 68.2                        | 43.12                     | 38.5                          | 19.41                  | 57.3                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |                                                                                             | 11160                | 47.21               | -26.79                  | 74                          | 52.88                     | 40.07                         | 15.79                  | 61.53                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 16740                | 45.83               | -22.37                  | 68.2                        | 43.94                     | 39.08                         | 19.63                  | 56.82                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11160                | 46.09               | -27.91                  | 74                          | 51.76                     | 40.07                         | 15.79                  | 61.53                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 16740                | 45.3                | -22.9                   | 68.2                        | 43.41                     | 39.08                         | 19.63                  | 56.82                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |                                                                                             | 11400                | 45.64               | -28.36                  | 74                          | 51.28                     | 40.02                         | 15.92                  | 61.58                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17100                | 46.75               | -21.45                  | 68.2                        | 42.81                     | 40.06                         | 19.96                  | 56.08                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11400                | 44.95               | -29.05                  | 74                          | 50.59                     | 40.02                         | 15.92                  | 61.58                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17100                | 47.35               | -20.85                  | 68.2                        | 43.41                     | 40.06                         | 19.96                  | 56.08                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



**Band 3 - 5470~5725MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                              | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11n<br/>HT40<br/>CH 102<br/>5510MHz</b> |      | 5459.44              | 51.69               | -22.31                  | 74                          | 42.77                     | 32.05                         | 9.89                   | 33.02                      | 100                  | 63                      | P                       | H               |
|                                                |      | 5464.48              | 58.6                | -9.6                    | 68.2                        | 49.65                     | 32.07                         | 9.9                    | 33.02                      | 100                  | 63                      | P                       | H               |
|                                                |      | 5459.92              | 42.22               | -11.78                  | 54                          | 33.3                      | 32.05                         | 9.89                   | 33.02                      | 100                  | 63                      | A                       | H               |
|                                                | *    | 5510                 | 97.01               | -                       | -                           | 88                        | 32.1                          | 9.94                   | 33.03                      | 100                  | 63                      | P                       | H               |
|                                                | *    | 5510                 | 88.8                | -                       | -                           | 79.79                     | 32.1                          | 9.94                   | 33.03                      | 100                  | 63                      | A                       | H               |
|                                                |      | 5763.74              | 50.74               | -17.46                  | 68.2                        | 41.08                     | 32.57                         | 10.25                  | 33.16                      | 100                  | 63                      | P                       | H               |
|                                                |      | 5458                 | 53.34               | -20.66                  | 74                          | 44.42                     | 32.05                         | 9.89                   | 33.02                      | 101                  | 115                     | P                       | V               |
|                                                |      | 5467.12              | 63.38               | -4.82                   | 68.2                        | 54.43                     | 32.07                         | 9.9                    | 33.02                      | 101                  | 115                     | P                       | V               |
|                                                |      | 5459.92              | 44.56               | -9.44                   | 54                          | 35.64                     | 32.05                         | 9.89                   | 33.02                      | 101                  | 115                     | A                       | V               |
|                                                | *    | 5510                 | 100.29              | -                       | -                           | 91.28                     | 32.1                          | 9.94                   | 33.03                      | 101                  | 115                     | P                       | V               |
|                                                | *    | 5510                 | 92.43               | -                       | -                           | 83.42                     | 32.1                          | 9.94                   | 33.03                      | 101                  | 115                     | A                       | V               |
|                                                |      | 5757.44              | 50.12               | -18.08                  | 68.2                        | 40.47                     | 32.57                         | 10.24                  | 33.16                      | 101                  | 115                     | P                       | V               |
| <b>802.11n<br/>HT40<br/>CH 110<br/>5550MHz</b> |      | 5392.96              | 50.44               | -23.56                  | 74                          | 41.64                     | 31.98                         | 9.84                   | 33.02                      | 100                  | 63                      | P                       | H               |
|                                                |      | 5467.36              | 49.71               | -18.49                  | 68.2                        | 40.76                     | 32.07                         | 9.9                    | 33.02                      | 100                  | 63                      | P                       | H               |
|                                                |      | 5447.44              | 40.82               | -13.18                  | 54                          | 31.91                     | 32.05                         | 9.88                   | 33.02                      | 100                  | 63                      | A                       | H               |
|                                                | *    | 5550                 | 99.13               | -                       | -                           | 90.01                     | 32.19                         | 9.98                   | 33.05                      | 100                  | 63                      | P                       | H               |
|                                                | *    | 5550                 | 91.04               | -                       | -                           | 81.92                     | 32.19                         | 9.98                   | 33.05                      | 100                  | 63                      | A                       | H               |
|                                                |      | 5741.06              | 52.39               | -15.81                  | 68.2                        | 42.79                     | 32.53                         | 10.22                  | 33.15                      | 100                  | 63                      | P                       | H               |
|                                                |      | 5442.64              | 50.69               | -23.31                  | 74                          | 41.8                      | 32.03                         | 9.88                   | 33.02                      | 100                  | 119                     | P                       | V               |
|                                                |      | 5470                 | 52.56               | -15.64                  | 68.2                        | 43.61                     | 32.07                         | 9.9                    | 33.02                      | 100                  | 119                     | P                       | V               |
|                                                |      | 5446.72              | 41.48               | -12.52                  | 54                          | 32.57                     | 32.05                         | 9.88                   | 33.02                      | 100                  | 119                     | A                       | V               |
|                                                | *    | 5550                 | 103.13              | -                       | -                           | 94.01                     | 32.19                         | 9.98                   | 33.05                      | 100                  | 119                     | P                       | V               |
|                                                | *    | 5550                 | 94.82               | -                       | -                           | 85.7                      | 32.19                         | 9.98                   | 33.05                      | 100                  | 119                     | A                       | V               |
|                                                |      | 5749.25              | 50.63               | -17.57                  | 68.2                        | 41.02                     | 32.53                         | 10.23                  | 33.15                      | 100                  | 119                     | P                       | V               |



|                                                                  |                                                                                             |          |        |        |      |       |       |       |       |     |     |   |   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|--------|--------|------|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT40</b><br><b>CH 134</b><br><b>5670MHz</b> |                                                                                             | 5459.55  | 51.12  | -22.88 | 74   | 42.2  | 32.05 | 9.89  | 33.02 | 100 | 63  | P | H |
|                                                                  |                                                                                             | 5465.15  | 50.83  | -17.37 | 68.2 | 41.88 | 32.07 | 9.9   | 33.02 | 100 | 63  | P | H |
|                                                                  |                                                                                             | 5454.65  | 40.21  | -13.79 | 54   | 31.29 | 32.05 | 9.89  | 33.02 | 100 | 63  | A | H |
|                                                                  | *                                                                                           | 5670     | 100.8  | -      | -    | 91.38 | 32.41 | 10.12 | 33.11 | 100 | 63  | P | H |
|                                                                  | *                                                                                           | 5670     | 92.33  | -      | -    | 82.91 | 32.41 | 10.12 | 33.11 | 100 | 63  | A | H |
|                                                                  |                                                                                             | 5726.85  | 58.03  | -10.17 | 68.2 | 48.46 | 32.5  | 10.2  | 33.13 | 100 | 63  | P | H |
|                                                                  |                                                                                             | 5438.2   | 49.61  | -24.39 | 74   | 40.73 | 32.03 | 9.87  | 33.02 | 100 | 118 | P | V |
|                                                                  |                                                                                             | 5464.8   | 48.92  | -19.28 | 68.2 | 39.97 | 32.07 | 9.9   | 33.02 | 100 | 118 | P | V |
|                                                                  |                                                                                             | 5459.9   | 40.55  | -13.45 | 54   | 31.63 | 32.05 | 9.89  | 33.02 | 100 | 118 | A | V |
|                                                                  | *                                                                                           | 5670     | 104.73 | -      | -    | 95.31 | 32.41 | 10.12 | 33.11 | 100 | 118 | P | V |
|                                                                  | *                                                                                           | 5670     | 96.14  | -      | -    | 86.72 | 32.41 | 10.12 | 33.11 | 100 | 118 | A | V |
|                                                                  |                                                                                             | 5726.675 | 64.52  | -3.68  | 68.2 | 54.95 | 32.5  | 10.2  | 33.13 | 100 | 118 | 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 802.11n HT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |                                                                                             | 11020                | 45.42               | -28.58                  | 74                          | 51.11                     | 40.1                          | 15.71                  | 61.5                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 16530                | 44.24               | -23.96                  | 68.2                        | 43.45                     | 38.58                         | 19.44                  | 57.23                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11020                | 45.46               | -28.54                  | 74                          | 51.15                     | 40.1                          | 15.71                  | 61.5                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 16530                | 43.69               | -24.51                  | 68.2                        | 42.9                      | 38.58                         | 19.44                  | 57.23                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |                                                                                             | 11100                | 45.35               | -28.65                  | 74                          | 51.04                     | 40.08                         | 15.75                  | 61.52                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 16650                | 44.33               | -23.87                  | 68.2                        | 42.9                      | 38.87                         | 19.55                  | 56.99                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11100                | 45.16               | -28.84                  | 74                          | 50.85                     | 40.08                         | 15.75                  | 61.52                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 16650                | 44.49               | -23.71                  | 68.2                        | 43.06                     | 38.87                         | 19.55                  | 56.99                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |                                                                                             | 11340                | 45.75               | -28.25                  | 74                          | 51.4                      | 40.03                         | 15.89                  | 61.57                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17010                | 46.71               | -21.49                  | 68.2                        | 43.34                     | 39.76                         | 19.87                  | 56.26                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11340                | 45.86               | -28.14                  | 74                          | 51.51                     | 40.03                         | 15.89                  | 61.57                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17010                | 46.51               | -21.69                  | 68.2                        | 43.14                     | 39.76                         | 19.87                  | 56.26                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |

## Emission below 1GHz

**WIFI 802.11n HT40 (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><br>HT40<br><br>LF |                                                                            | 37.83     | 24.22      | -15.78 | 40         | 35.61  | 20.26    | 0.84   | 32.49  |        |         | P     | H     |
|                               |                                                                            | 63.21     | 22.42      | -17.58 | 40         | 42.19  | 11.64    | 1.07   | 32.49  |        |         | P     | H     |
|                               |                                                                            | 181.47    | 22.59      | -20.91 | 43.5       | 38.42  | 14.72    | 1.86   | 32.41  |        |         | P     | H     |
|                               |                                                                            | 482.7     | 28.48      | -17.52 | 46         | 34.53  | 23.49    | 2.83   | 32.37  |        |         | P     | H     |
|                               |                                                                            | 783.7     | 31.45      | -14.55 | 46         | 31.93  | 28.02    | 3.73   | 32.23  |        |         | P     | H     |
|                               |                                                                            | 954.5     | 33.79      | -12.21 | 46         | 30     | 30.81    | 4.14   | 31.16  | 100    | 0       | P     | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                               |                                                                            | 36.48     | 35.04      | -4.96  | 40         | 45.92  | 20.79    | 0.82   | 32.49  | 100    | 0       | P     | V     |
|                               |                                                                            | 49.98     | 30.94      | -9.06  | 40         | 48.41  | 14.07    | 0.95   | 32.49  |        |         | P     | V     |
|                               |                                                                            | 71.31     | 26.19      | -13.81 | 40         | 45.34  | 12.16    | 1.18   | 32.49  |        |         | P     | V     |
|                               |                                                                            | 564.6     | 27.45      | -18.55 | 46         | 30.83  | 25.92    | 3.13   | 32.43  |        |         | P     | V     |
|                               |                                                                            | 857.2     | 31.62      | -14.38 | 46         | 30.61  | 28.97    | 3.92   | 31.88  |        |         | P     | V     |
|                               |                                                                            | 950.3     | 33.94      | -12.06 | 46         | 30.4   | 30.61    | 4.13   | 31.2   |        |         | P     | V     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                               |                                                                            |           |            |        |            |        |          |        |        |        |         | 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>P</b> eak or <b>A</b> verage                                                                                                                          |
| 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

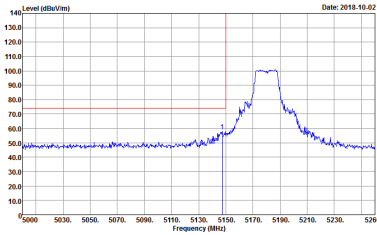
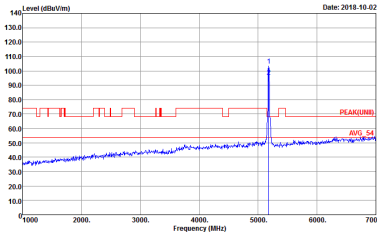
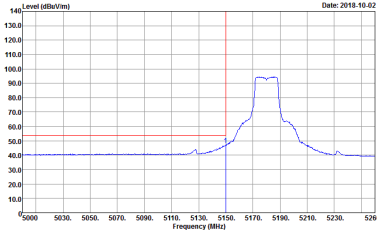
|                 |                                |                     |         |
|-----------------|--------------------------------|---------------------|---------|
| Test Engineer : | Hao Hsu, Ken Wu, and Chuan Zhu | Temperature :       | 21~26°C |
|                 |                                | Relative Humidity : | 51~56%  |

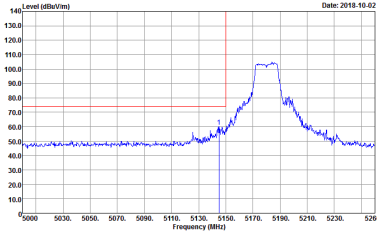
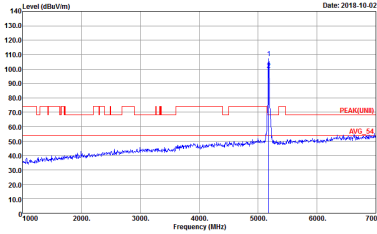
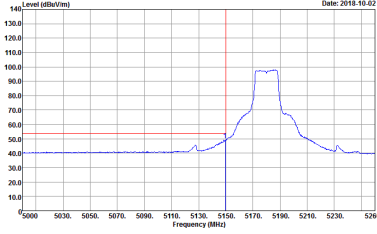
### Note symbol

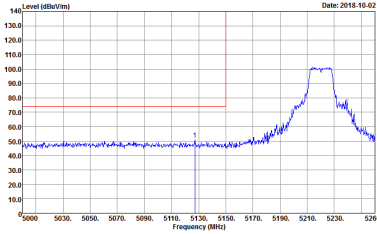
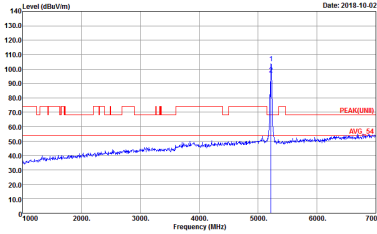
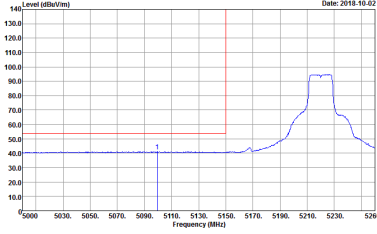
|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |

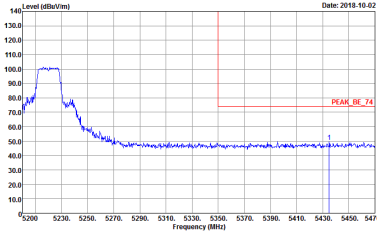
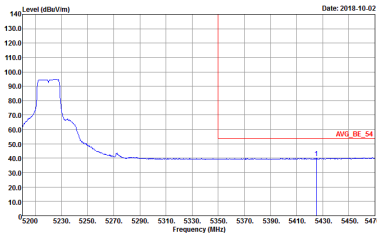


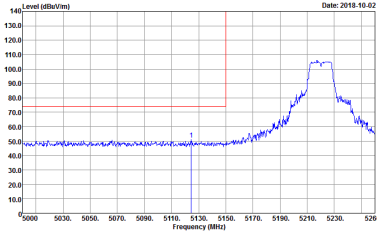
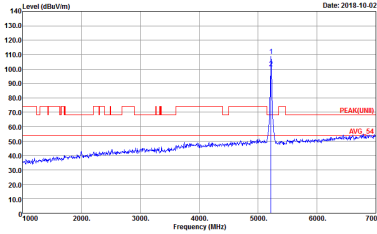
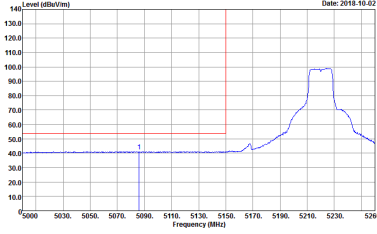
**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

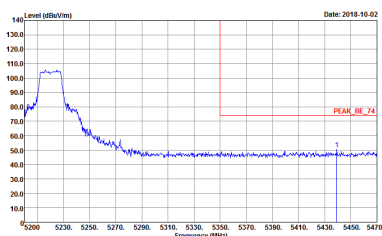
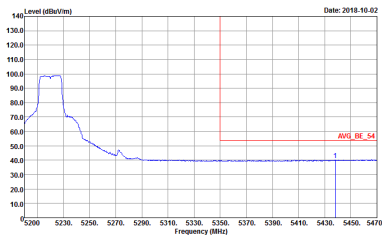
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                               |                                                                                                                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                                                                                             |                                                                                                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 14.5</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 14.5</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 14.5</p> | Left blank                                                                                                                                                                                                                       |

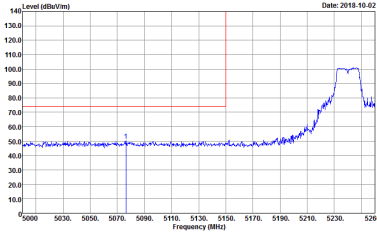
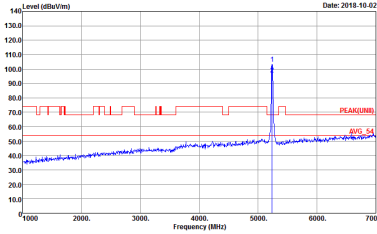
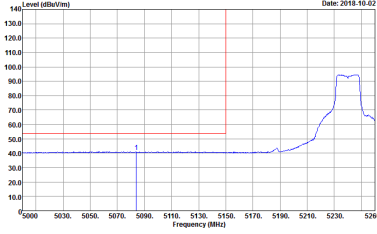
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 : Peak<br/>           Setting : 890804-01<br/>           Setting : 14.5         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : Peak<br/>           Setting : 890804-01<br/>           Setting : 14.5         </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 : Peak<br/>           Setting : 890804-01<br/>           Setting : 14.5         </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/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>    | Left blank                                                                                                                                                                                                                                                 |

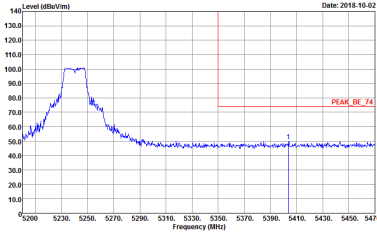
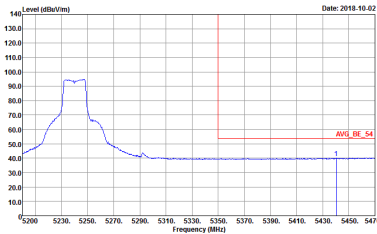
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                        |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                                                                  |             |
| 1    | Horizontal                                                                                                                                                                                                                                                | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</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/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</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 : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>    | Left blank                                                                                                                                                                                                                                               |

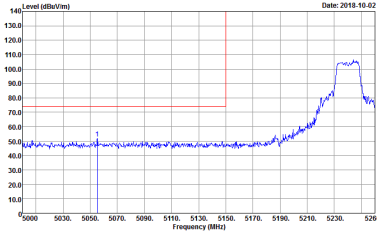
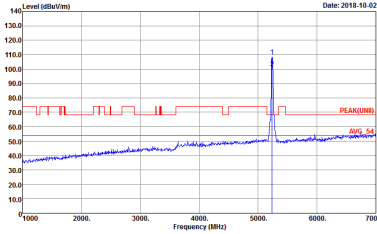
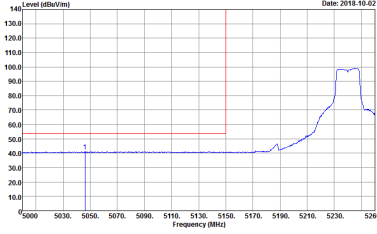
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                      |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                                                                                                                                |             |
| 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 : 890804-01         </p> | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 890804-01         </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/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>    | Left blank                                                                                                                                                                                                                                                 |

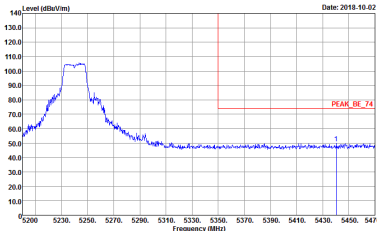
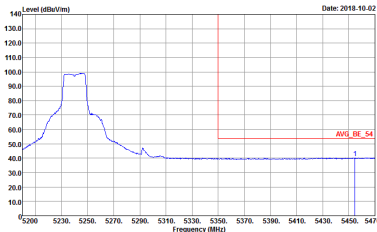


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                  |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                                                                            |             |
| 1    | Horizontal                                                                                                                                                                                                                                                          | Fundamental |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div>    | Left blank  |



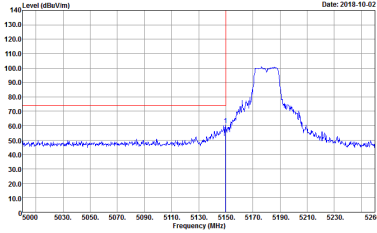
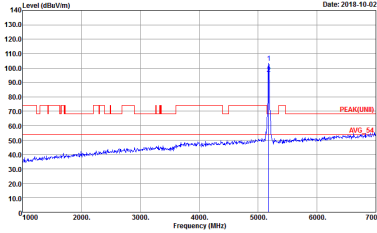
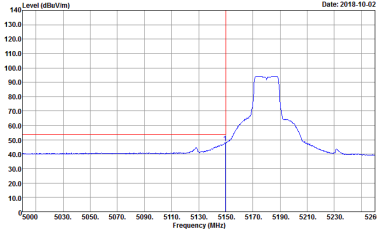
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                          |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</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 : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>   | Left blank                                                                                                                                                                                                                                               |



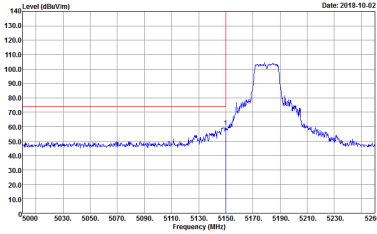
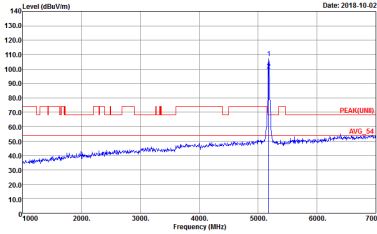
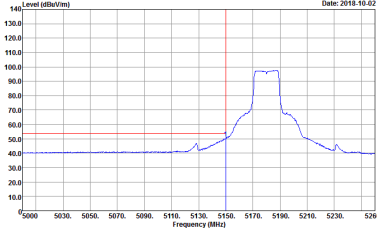
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                      |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 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/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>    | Left blank  |



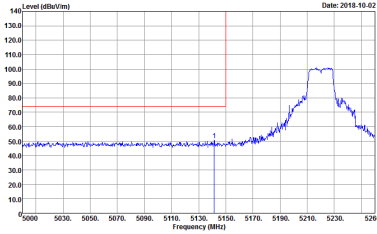
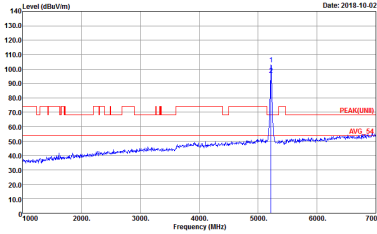
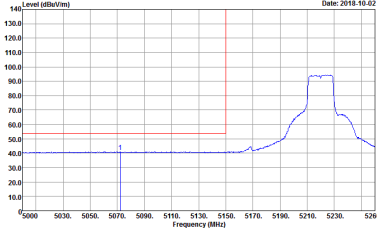
Band 1 5150~5250MHz  
WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH36 5180MHz                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                      |
| 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 : 890804-01<br/>Setting : 14.5</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 : 890804-01<br/>Setting : 14.5</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 14.5</p>                                    | Left blank                                                                                                                                                                                                                                                           |

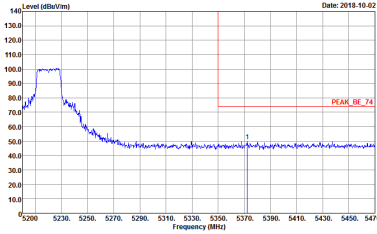
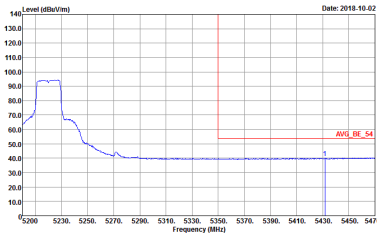


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                       |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 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 : Peak<br/>Setting : 890804-01<br/>Setting : 14.5</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Setting : 890804-01<br/>Setting : 14.5</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 : Peak<br/>Setting : 890804-01<br/>Setting : 14.5</p>   | Left blank                                                                                                                                                                                                                                                                            |

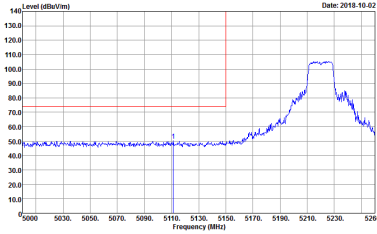
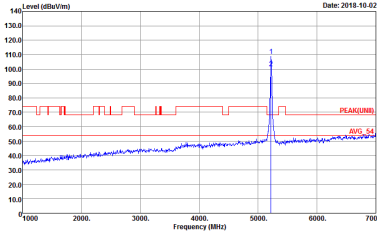
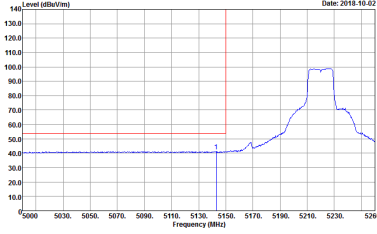


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH44 5220MHz - L                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>    | Left blank                                                                                                                                                                                                                                                 |

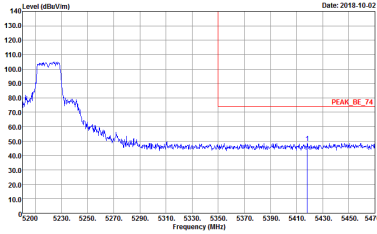
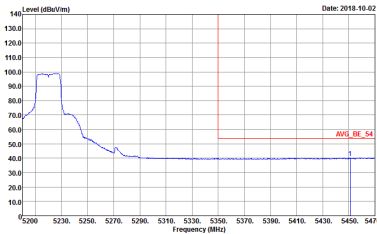


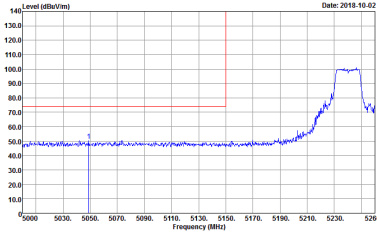
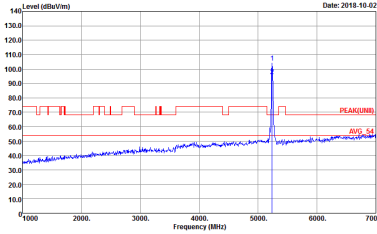
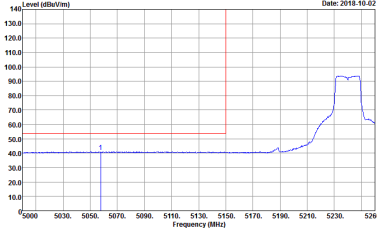
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                  |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH44 5220MHz - R                                                                                                                                                                                                                                       |             |
| 1    | Horizontal                                                                                                                                                                                                                                                          | Fundamental |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div>    | Left blank  |



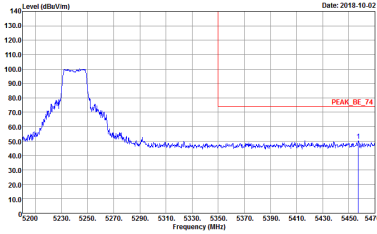
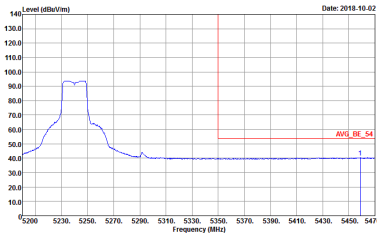
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                          |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH44 5220MHz - 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 : 890804-01</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 : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>   | Left blank                                                                                                                                                                                                                                               |



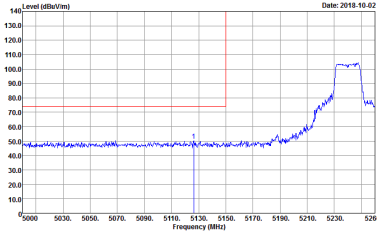
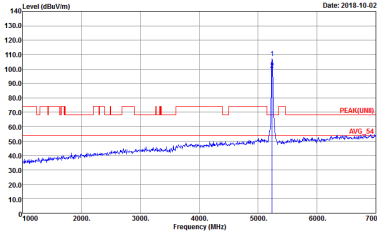
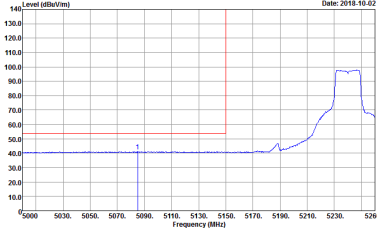
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH44 5220MHz - R                                                                                                                                                                                                                                     |             |
| 1    | Vertical                                                                                                                                                                                                                                                          | Fundamental |
| Peak | <div><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 : 890804-01</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div>    | Left blank  |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH48 5240MHz - L                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>    | Left blank                                                                                                                                                                                                                                                 |

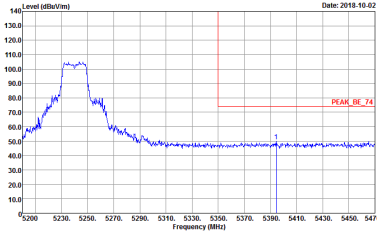
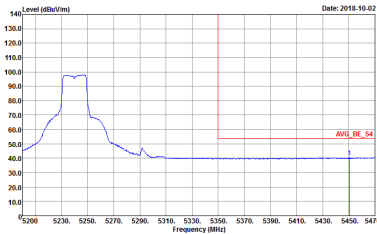


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                  |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH48 5240MHz - R                                                                                                                                                                                                                                       |             |
| 1    | Horizontal                                                                                                                                                                                                                                                          | Fundamental |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div>   | Left blank  |



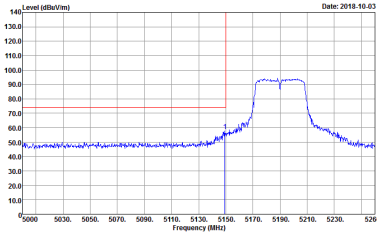
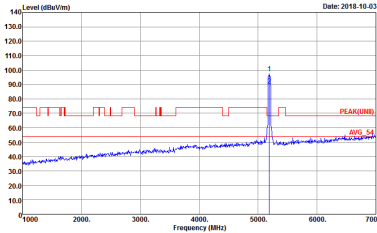
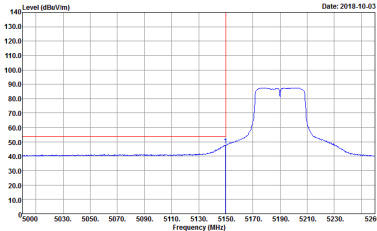
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                          |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH48 5240MHz - 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 : 890804-01</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 : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>   | Left blank                                                                                                                                                                                                                                               |



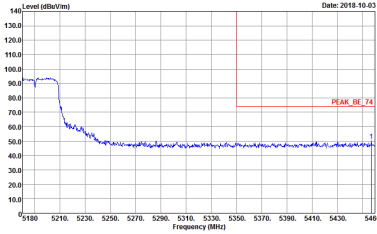
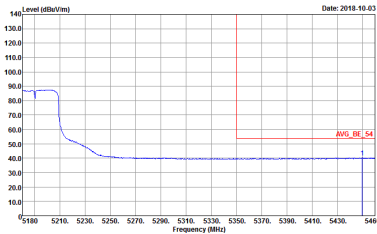
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH48 5240MHz - R                                                                                                                                                                                                                                     |             |
| 1    | Vertical                                                                                                                                                                                                                                                          | Fundamental |
| Peak | <div><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 : 890804-01</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div>    | Left blank  |



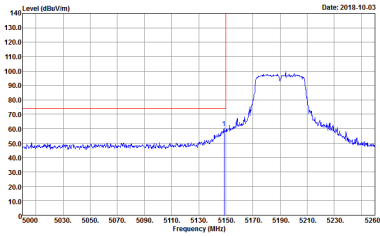
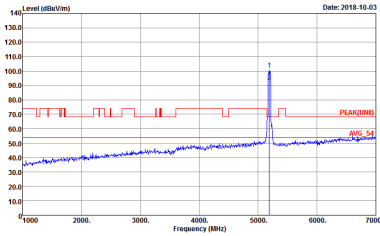
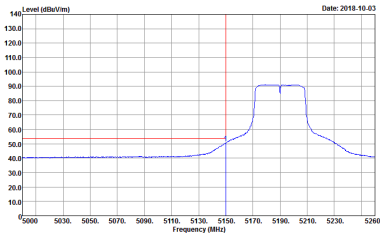
Band 1 5150~5250MHz  
WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                               |                                                                                                                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH38 5190MHz - L                                                                                                                                                                                                    |                                                                                                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                                                                                                       | Fundamental                                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 11.5</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 11.5</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 11.5</p> | Left blank                                                                                                                                                                                                                       |

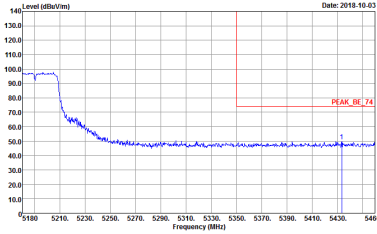
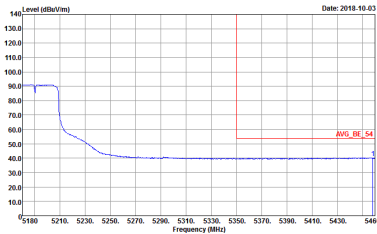


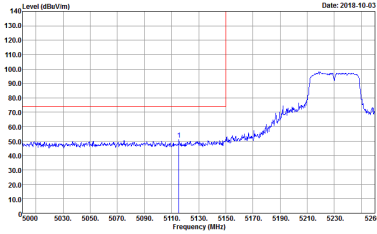
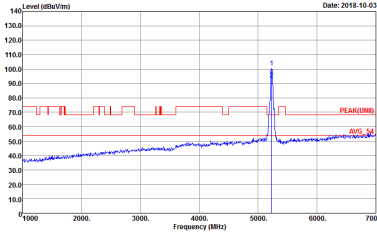
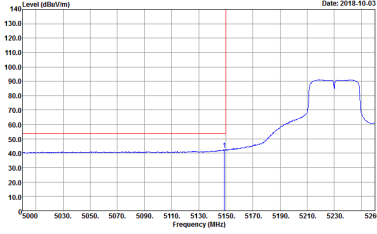
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                         |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH38 5190MHz - R                                                                                                                                                                                                              |             |
| 1    | Horizontal                                                                                                                                                                                                                                 | Fundamental |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 11.5</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 11.5</p></div> | Left blank  |



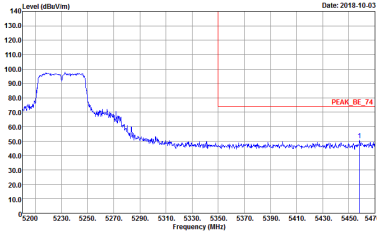
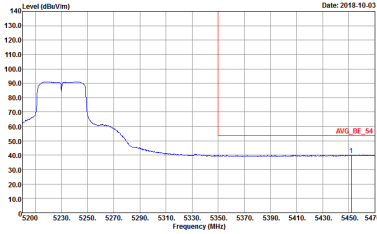
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                       |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 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 : Peak<br/>Setting : 890804-01<br/>Setting : 11.5</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Setting : 890804-01<br/>Setting : 11.5</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 : Peak<br/>Setting : 890804-01<br/>Setting : 11.5</p>    | Left blank                                                                                                                                                                                                                                                                            |



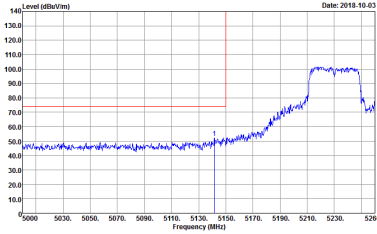
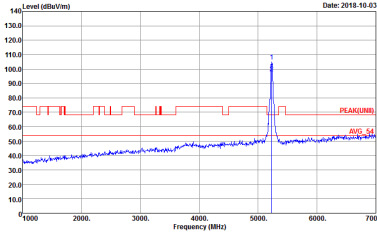
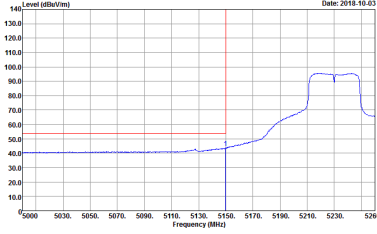
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                       |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH38 5190MHz - R                                                                                                                                                                                                            |             |
| 1    | Vertical                                                                                                                                                                                                                                 | Fundamental |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 11.5</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 11.5</p></div> | Left blank  |

| WIFI        | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                       |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11n HT40 CH46 5230MHz - L                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                       |
| 1           | Horizontal                                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                                           |
| <b>Peak</b> |  <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 : Peak<br/>Setting : 890804-01<br/>Setting : 15</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Setting : 890804-01<br/>Setting : 15</p> |
| <b>Avg.</b> |  <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 : Peak<br/>Setting : 890804-01<br/>Setting : 15</p>    | <b>Left blank</b>                                                                                                                                                                                                                                                                     |

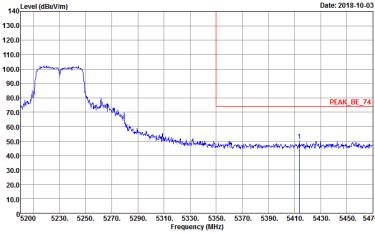
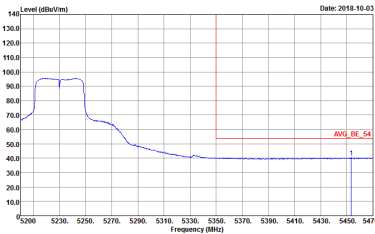


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH46 5230MHz - R                                                                                                                                                                                                                                                        |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                           | Fundamental |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 15</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 15</p></div>    | Left blank  |



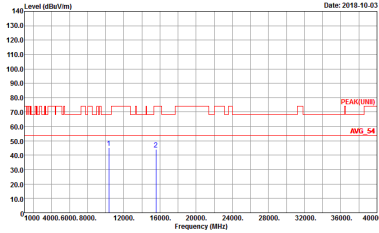
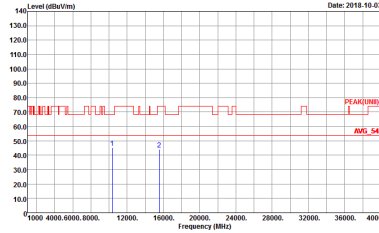
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                     |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH46 5230MHz - L                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                     |
| 1    | Vertical                                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                                         |
| Peak | <div><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 : 890804-01<br/>Setting : 15</p></div> | <div><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 : 890804-01<br/>Setting : 15</p></div> |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 15</p></div>   | Left blank                                                                                                                                                                                                                                                                          |



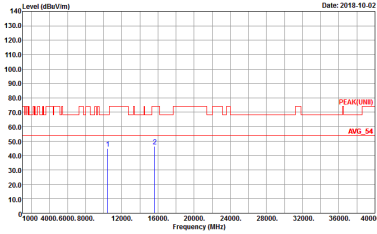
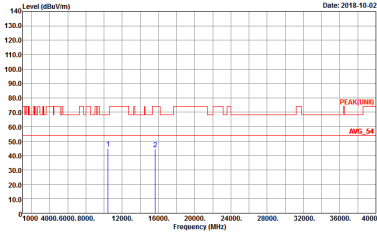
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                           |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH46 5230MHz - R                                                                                                                                                                                                                                                                |             |
| 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 : Peak<br/>Setting : 890804-01<br/>Setting : 15</p></div> | Left blank  |
| Avg. | <div><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 : Peak<br/>Setting : 890804-01<br/>Setting : 15</p></div>   | Left blank  |



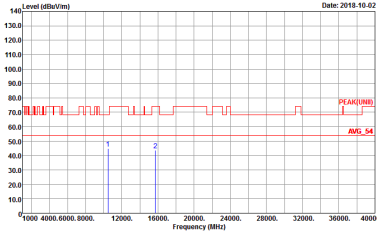
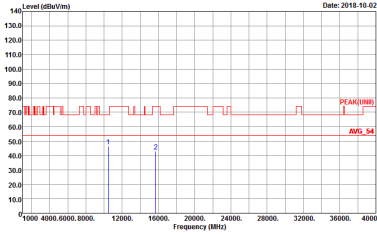
Band 1 - 5150~5250MHz  
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH36 5180MHz                                                                                                                                                                                         |                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |

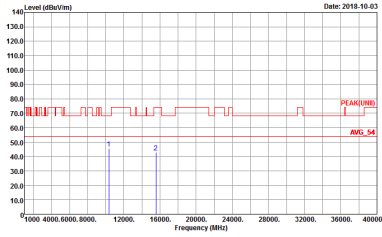
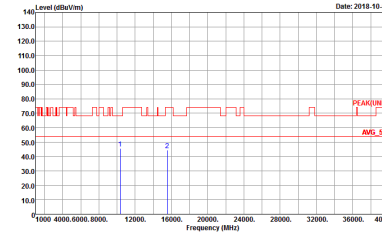


|              |                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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(UNII) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> |

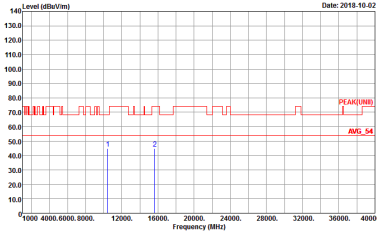
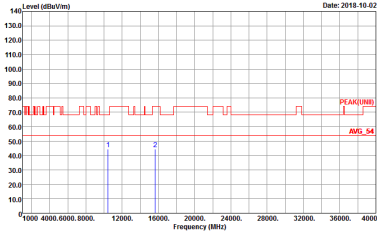


| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                       |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH48 5240MHz                                                                                                                                                                                                   |                                                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                              |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> |
|              |                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |

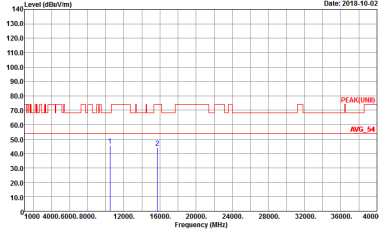
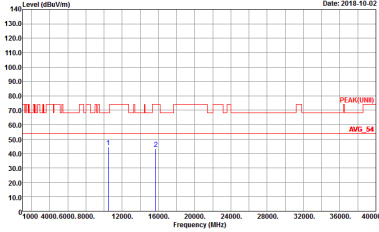
**Band 1 5150~5250MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI                           | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                               |                                                                                                                                                                                                                |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11n HT20 CH36 5180MHz                                                                                                                                                                                       |                                                                                                                                                                                                                |
| 1                              | Horizontal                                                                                                                                                                                                      | Vertical                                                                                                                                                                                                       |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/> Detector : Peak<br/> Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/> Detector : Peak<br/> Project : 890804-01</p> |



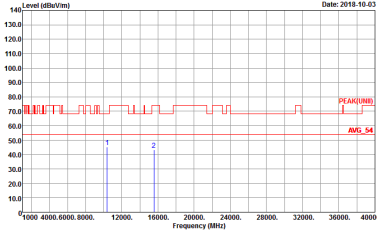
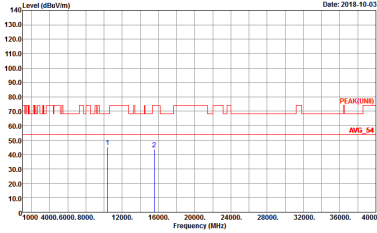
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                      |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH44 5220MHz                                                                                                                                                                                             |                                                                                                                                                                                                                      |
| 1            | Horizontal                                                                                                                                                                                                            | Vertical                                                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNB) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNB) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> |
|              |                                                                                                                                                                                                                       |                                                                                                                                                                                                                      |



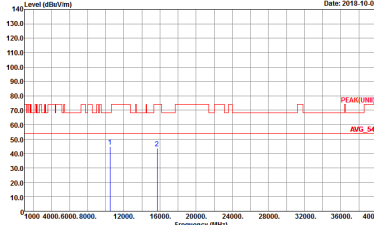
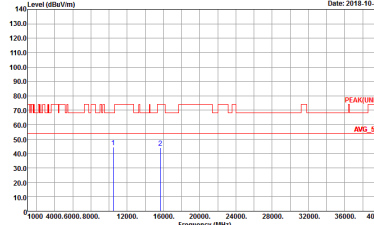
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                      |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH48 5240MHz                                                                                                                                                                                             |                                                                                                                                                                                                                      |
| 1            | Horizontal                                                                                                                                                                                                            | Vertical                                                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNB) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNB) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> |
|              |                                                                                                                                                                                                                       |                                                                                                                                                                                                                      |



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

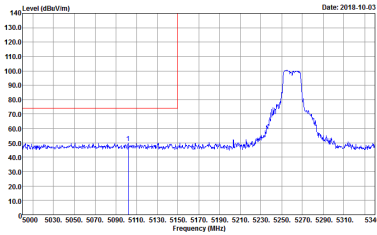
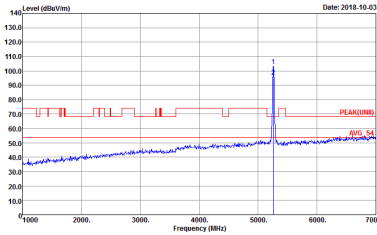
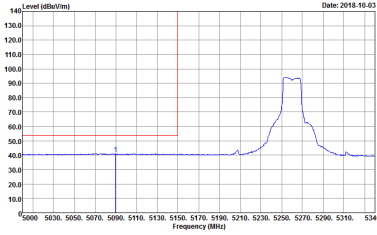
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH38 5190MHz                                                                                                                                                                                    |                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |

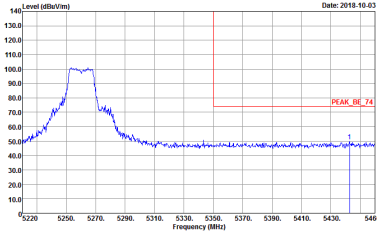
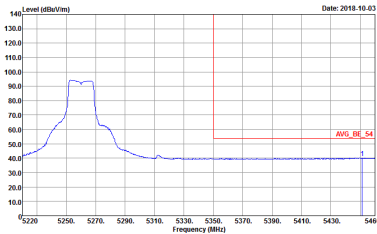


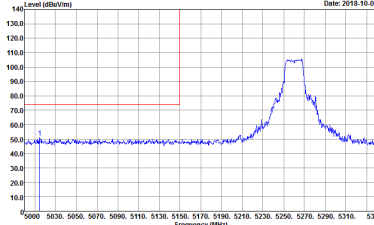
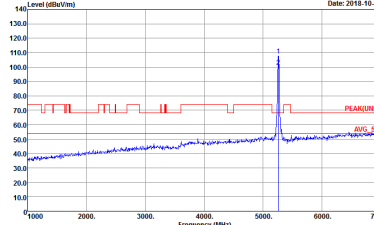
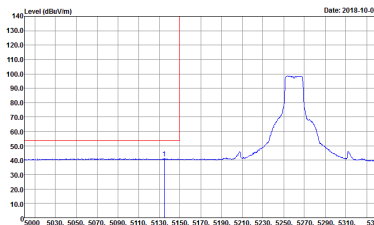
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                       |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH46 5230MHz                                                                                                                                                                                              |                                                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                              |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> |
|              |                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |



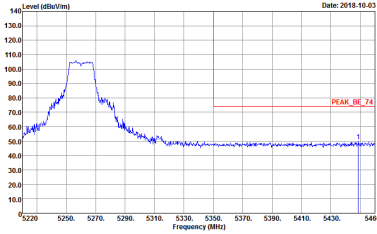
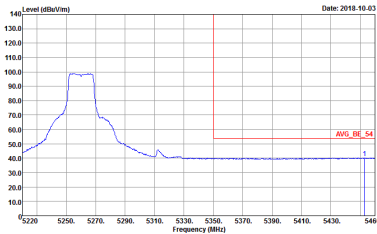
Band 2 - 5250~5350MHz  
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                            |                                                                                                                                                                                                               |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                                                                      |                                                                                                                                                                                                               |
| 1    | Horizontal                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                   |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> | Left blank                                                                                                                                                                                                    |

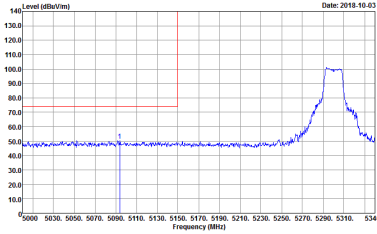
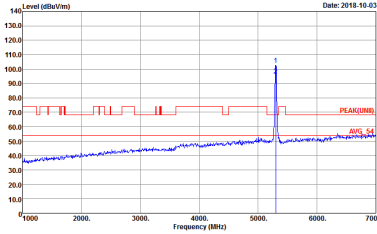
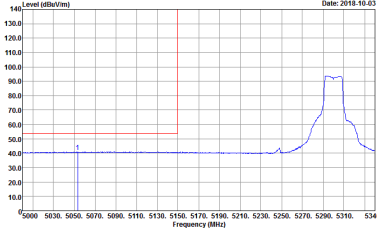
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                        |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                                                                                                                                                  |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                | Fundamental |
| Peak |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 890804-01         </p> | Left blank  |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 890804-01         </p>    | Left blank  |

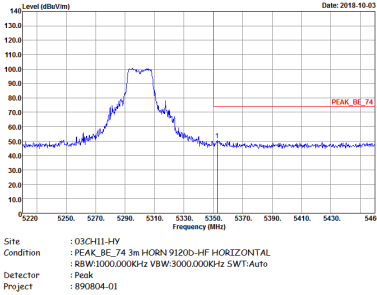
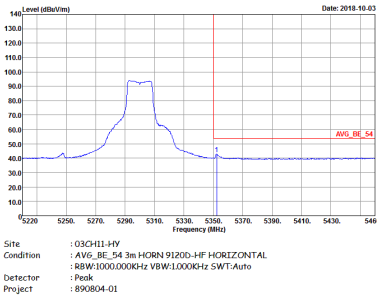
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                          |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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/>           RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 890804-01         </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 : 890804-01         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 890804-01         </p>    | Left blank                                                                                                                                                                                                                                                                                                               |



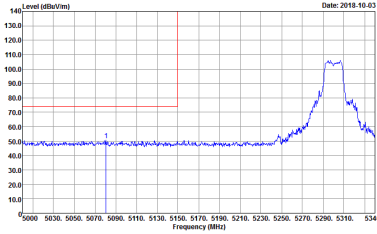
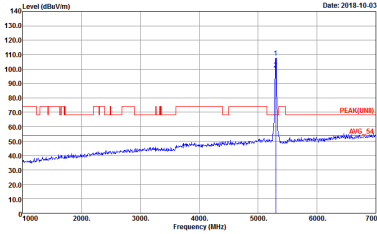
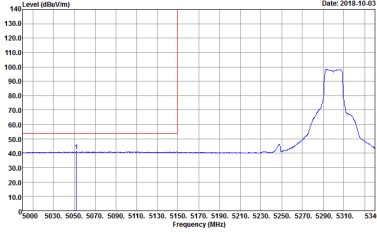
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                                                                                          |             |
| 1    | Vertical                                                                                                                                                                                                                                                          | Fundamental |
| Peak | <div><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 : 890804-01</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div>    | Left blank  |



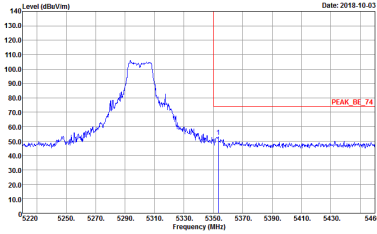
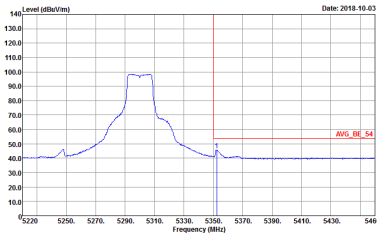
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>   | Left blank                                                                                                                                                                                                                                                 |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                            |             |
| 1    | Horizontal                                                                          | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

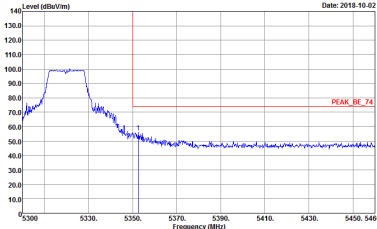
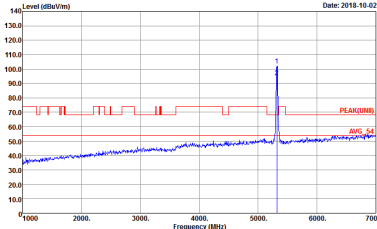
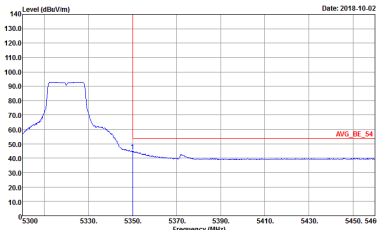


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | <div><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 : 890804-01</p></div> |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div>   | Left blank                                                                                                                                                                                                                                                         |

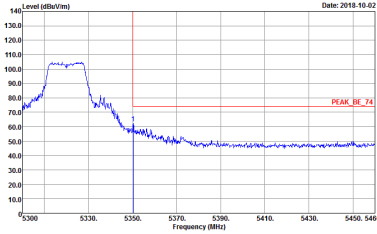
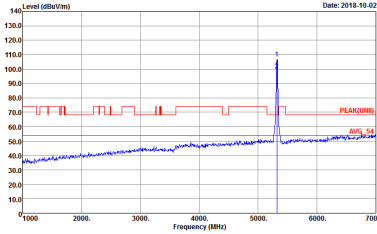
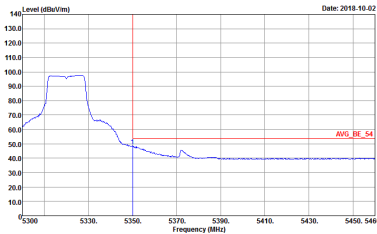


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                                                                                                                          |             |
| 1    | Vertical                                                                                                                                                                                                                                                          | Fundamental |
| Peak | <div><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 : 890804-01</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div>    | Left blank  |



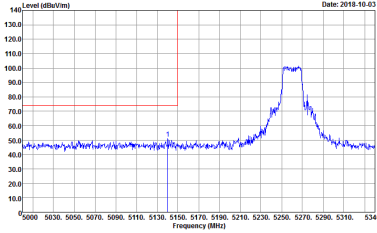
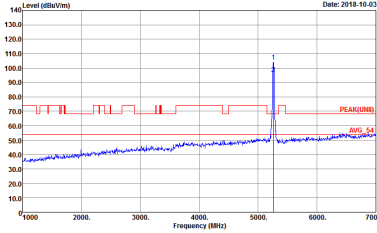
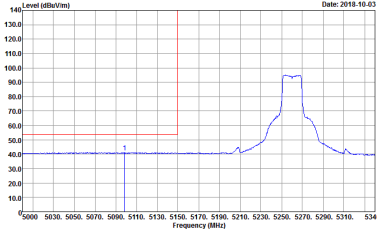
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                             |
| 1    | Horizontal                                                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                                                                 |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 14</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(FUND) 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 14</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 14</p>    | Left blank                                                                                                                                                                                                                                                                  |



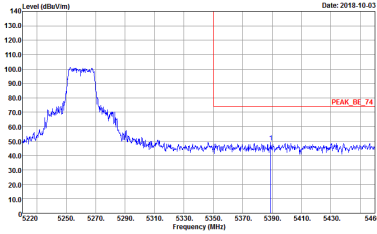
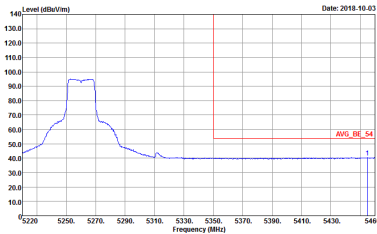
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                     |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 : Peak<br/>Setting : 890804-01<br/>Setting : 14</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Setting : 890804-01<br/>Setting : 14</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 : Peak<br/>Setting : 890804-01<br/>Setting : 14</p>   | Left blank                                                                                                                                                                                                                                                                          |

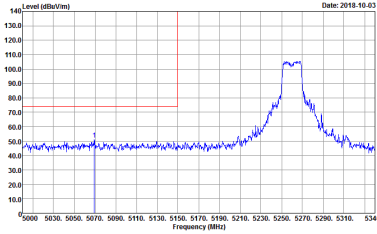
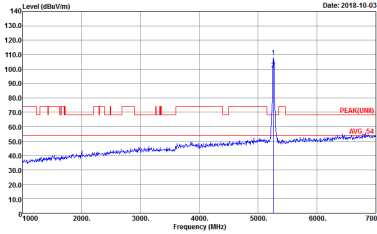
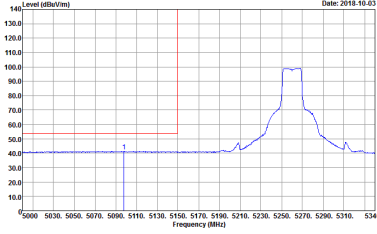


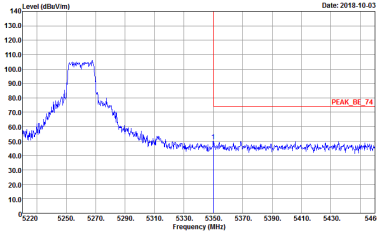
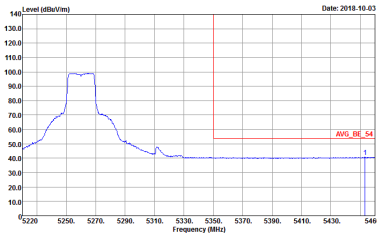
Band 2 5250~5350MHz  
WIFI 802.11n HT20 (Band Edge @ 3m)

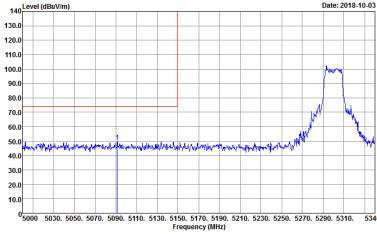
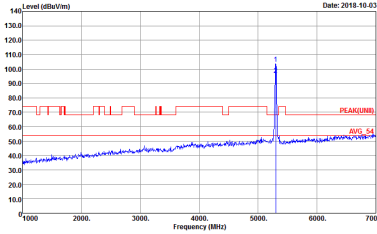
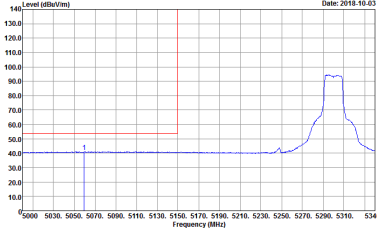
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                               |                                                                                                                                                                                                                                                   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH52 5260MHz - 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 : 890804-01</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 : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p>                                    | Left blank                                                                                                                                                                                                                                        |



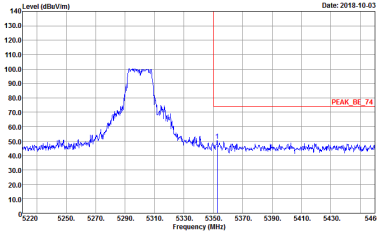
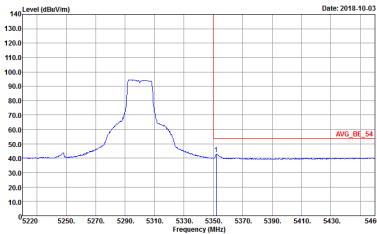
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                        |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH52 5260MHz - R                                                                                                                                                                                                                             |             |
| 1    | Horizontal                                                                                                                                                                                                                                                | Fundamental |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> | Left blank  |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>    | Left blank  |

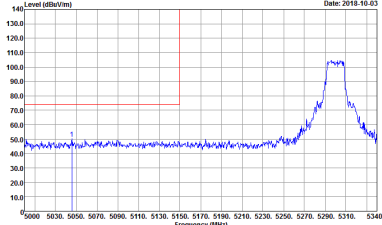
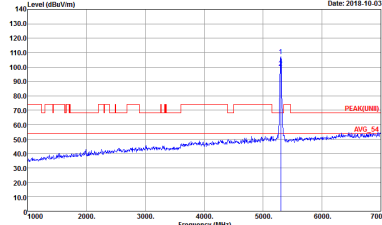
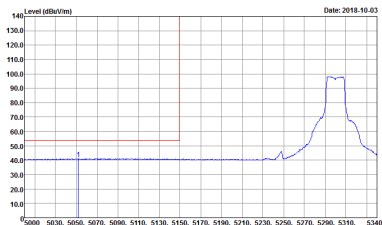
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                          |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 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 : 890804-01</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 : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>    | Left blank                                                                                                                                                                                                                                               |

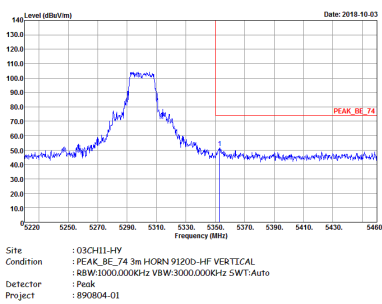
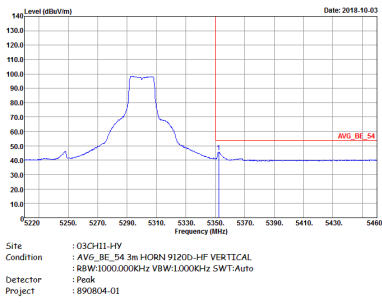
| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                      |             |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT         | 802.11n HT20 CH52 5260MHz - R                                                                                                                                                                                                                           |             |
| 1           | Vertical                                                                                                                                                                                                                                                | Fundamental |
| <b>Peak</b> |  <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 : 890804-01</p> | Left blank  |
| <b>Avg.</b> |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>    | Left blank  |

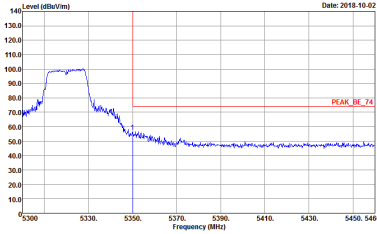
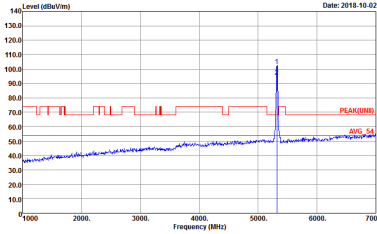
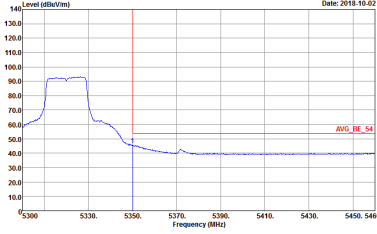
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH60 5300MHz - L                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>    | Left blank                                                                                                                                                                                                                                                 |



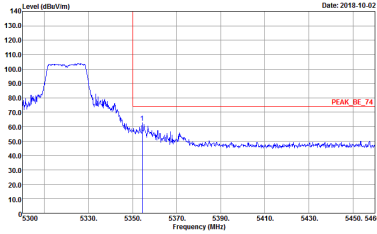
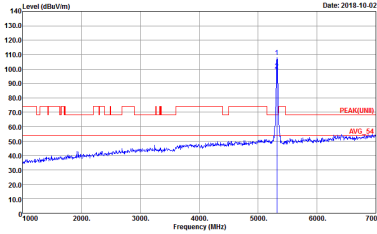
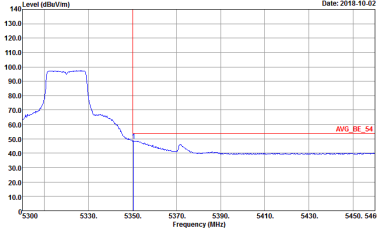
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                  |            |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| ANT  | 802.11n HT20 CH60 5300MHz - R                                                                                                                                                                                                                                       |            |
| 1    | Horizontal                                                                                                                                                                                                                                                          | Vertical   |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | Left blank |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div>    | Left blank |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                          |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH60 5300MHz - 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 : 890804-01         </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 : 890804-01         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 890804-01         </p>   | Left blank                                                                                                                                                                                                                                                                                                               |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                  |             |
|------|-------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH60 5300MHz - R                                                       |             |
| 1    | Vertical                                                                            | Fundamental |
| Peak |    | Left blank  |
| Avg. |  | Left blank  |

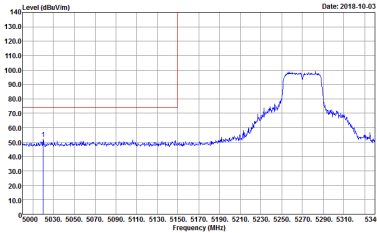
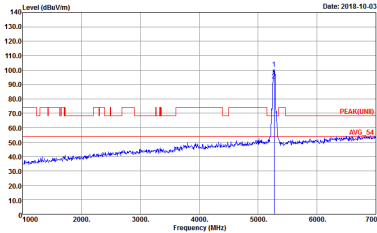
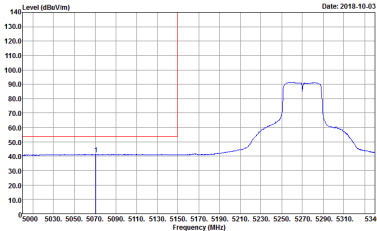
| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                       |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11n HT20 CH64 5320MHz                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                       |
| 1           | Horizontal                                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                                           |
| <b>Peak</b> |  <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 : Peak<br/>Setting : 890804-01<br/>Setting : 14</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Setting : 890804-01<br/>Setting : 14</p> |
|             |  <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 : Peak<br/>Setting : 890804-01<br/>Setting : 14</p>   | Left blank                                                                                                                                                                                                                                                                            |



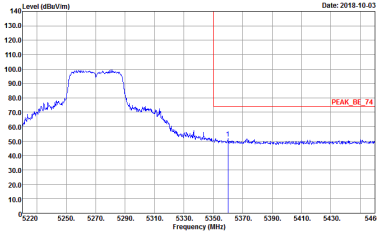
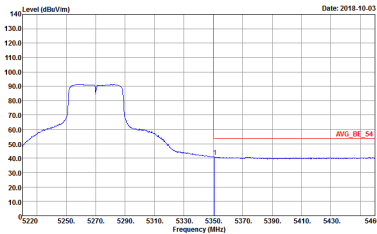
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                           |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH64 5320MHz                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                           |
| 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 : 890804-01<br/>Setting : 14</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(FUND) 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 14</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 14</p>   | Left blank                                                                                                                                                                                                                                                                |



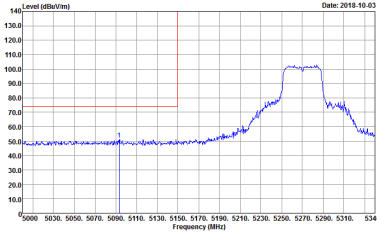
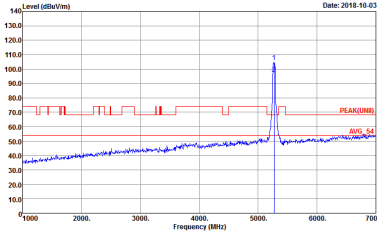
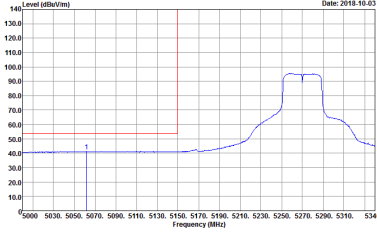
Band 2 5250~5350MHz  
WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH54 5270 - 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 : 890804-01<br/>Setting : 14.5</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 : 890804-01<br/>Setting : 14.5</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 : 890804-01<br/>Setting : 14.5</p>    | Left blank                                                                                                                                                                                                                                                           |

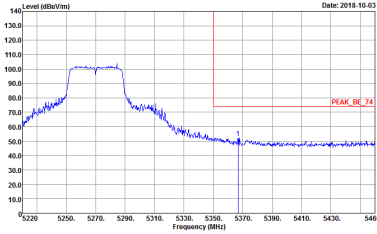
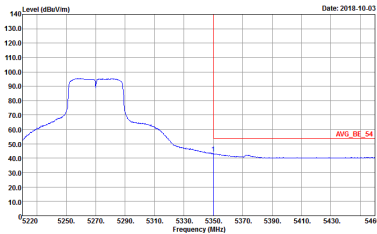


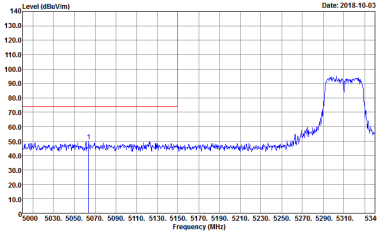
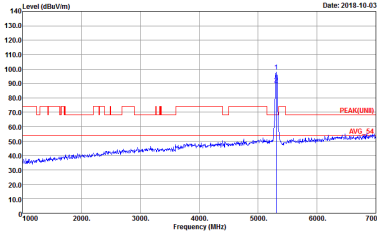
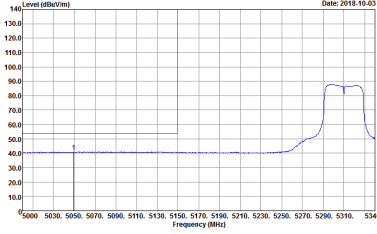
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                               |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH54 5270 - R                                                                                                                                                                                                                                                                       |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                       | Fundamental |
| Peak | <div><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 : Peak<br/>Setting : 890804-01<br/>Setting : 14.5</p></div> | Left blank  |
| Avg. | <div><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 : Peak<br/>Setting : 890804-01<br/>Setting : 14.5</p></div>   | Left blank  |

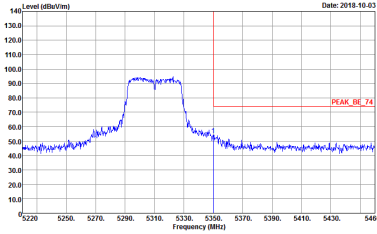
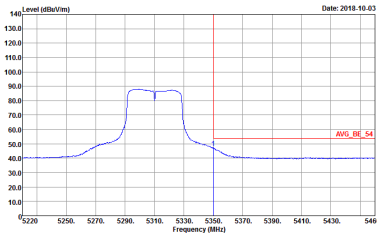


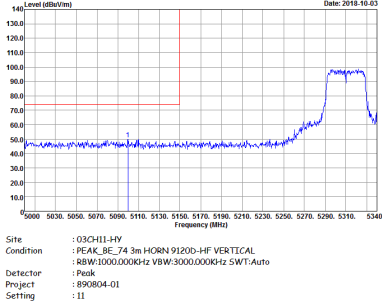
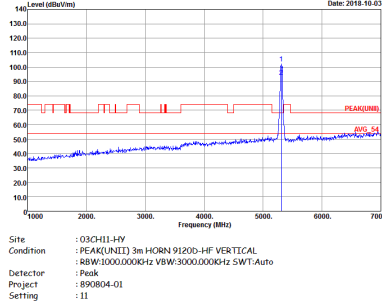
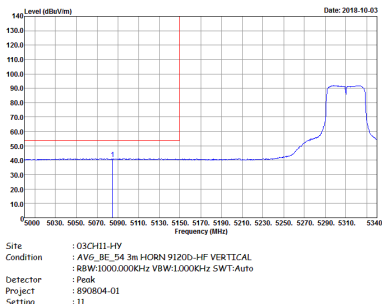
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                       |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH54 5270 - L                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                       |
| 1    | Vertical                                                                                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                                                                                              |
| 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 : Peak<br/>Setting : 890804-01<br/>Setting : 14.5</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Setting : 890804-01<br/>Setting : 14.5</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 : Peak<br/>Setting : 890804-01<br/>Setting : 14.5</p>    | Left blank                                                                                                                                                                                                                                                                            |

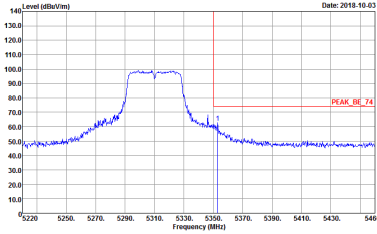
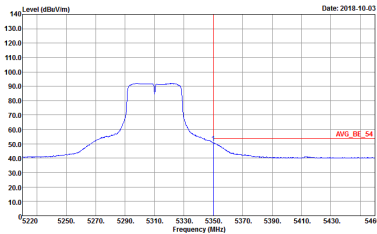


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                   |            |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| ANT  | 802.11n HT40 CH54 5270 - R                                                                                                                                                                                                                                                           |            |
| 1    | Vertical                                                                                                                                                                                                                                                                             | Vertical   |
| Peak | <div><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 : 890804-01<br/>Setting : 14.5</p></div> | Left blank |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 14.5</p></div>    | Left blank |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH62 5310 - 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 : Peak<br/>           Setting : 890804-01<br/>           Setting : 11         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : Peak<br/>           Setting : 890804-01<br/>           Setting : 11         </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 : Peak<br/>           Setting : 890804-01<br/>           Setting : 11         </p>   | Left blank                                                                                                                                                                                                                                                                                                                                                       |

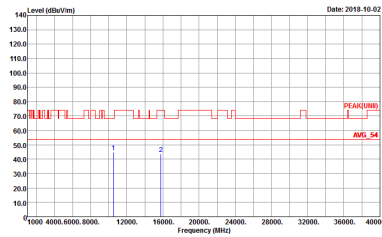
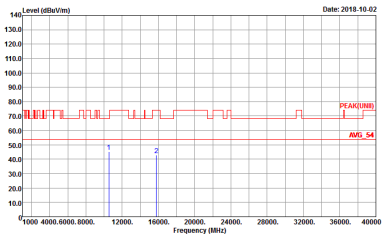
| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                             |             |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT         | 802.11n HT40 CH62 5310 - R                                                                                                                                                                                                                                                                     |             |
| 1           | Horizontal                                                                                                                                                                                                                                                                                     | Fundamental |
| <b>Peak</b> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 890804-01<br/>           Setting : 11         </p>  | Left blank  |
| <b>Avg.</b> |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 890804-01<br/>           Setting : 11         </p> | Left blank  |

| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                  |                                                                                    |
|-------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT         | 802.11n HT40 CH62 5310 - L                                                          |                                                                                    |
| 1           | Vertical                                                                            | Fundamental                                                                        |
| <b>Peak</b> |    |  |
| <b>Avg.</b> |  | <b>Left blank</b>                                                                  |

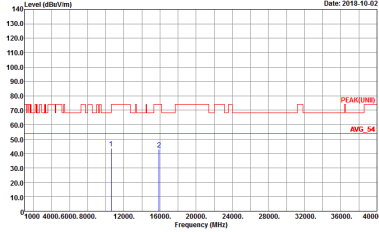
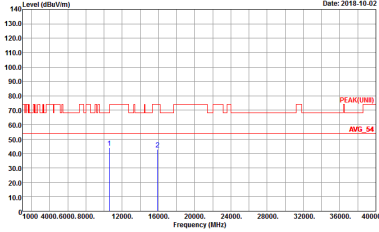
| WIFI        | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                           |             |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT         | 802.11n HT40 CH62 5310 - R                                                                                                                                                                                                                                                                   |             |
| 1           | Vertical                                                                                                                                                                                                                                                                                     | Fundamental |
| <b>Peak</b> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 890804-01<br/>           Setting : 11         </p>  | Left blank  |
| <b>Avg.</b> |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           Detector : Peak<br/>           Project : 890804-01<br/>           Setting : 11         </p> | Left blank  |



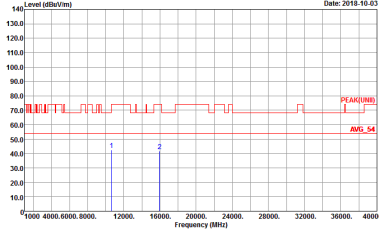
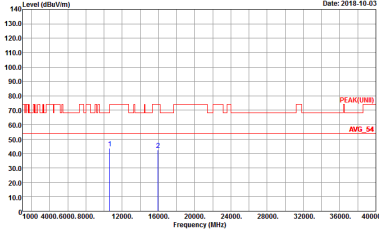
Band 2 - 5250~5350MHz  
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH52 5260MHz                                                                                                                                                                                         |                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |

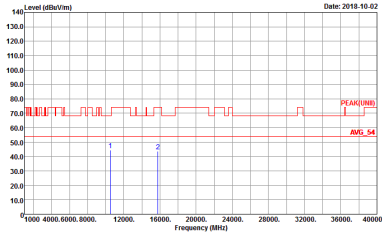
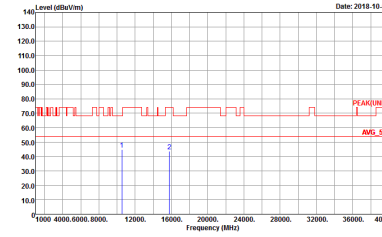


| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH60 5300MHz                                                                                                                                                                                         |                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |
|              |                                                                                                                                                                                                              |                                                                                                                                                                                                             |

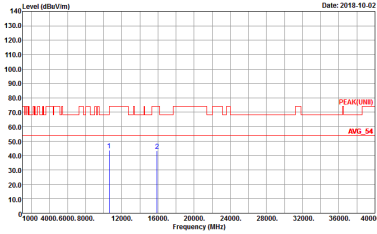
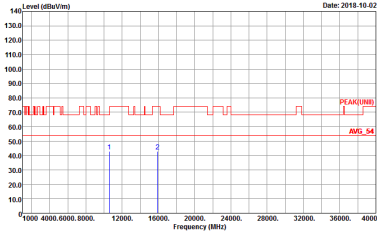


| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                       |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH64 5320MHz                                                                                                                                                                                                   |                                                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                              |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> |
|              |                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |

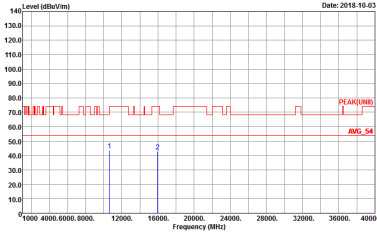
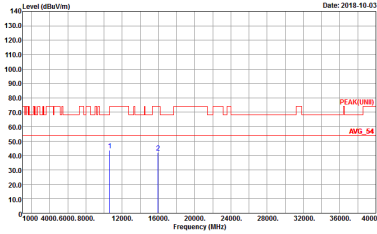
**Band 2 5250~5350MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI                           | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                              |                                                                                                                                                                                                               |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11n HT20 CH52 5260MHz                                                                                                                                                                                      |                                                                                                                                                                                                               |
| 1                              | Horizontal                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                      |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNB) 3m HORN 9120D-HF HORIZONTAL<br/> Detector : Peak<br/> Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNB) 3m HORN 9120D-HF VERTICAL<br/> Detector : Peak<br/> Project : 890804-01</p> |



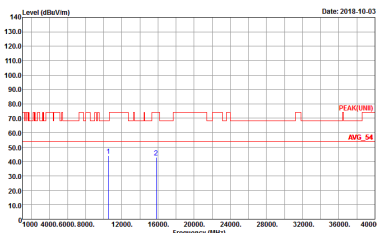
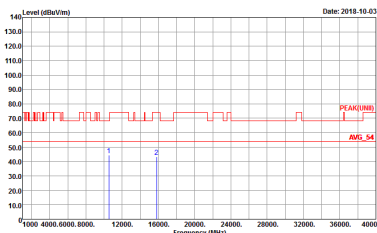
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                           |                                                                                                                                                                                                            |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH60 5300MHz                                                                                                                                                                                   |                                                                                                                                                                                                            |
| 1            | Horizontal                                                                                                                                                                                                  | Vertical                                                                                                                                                                                                   |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UWB) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UWB) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |
|              |                                                                                                                                                                                                             |                                                                                                                                                                                                            |



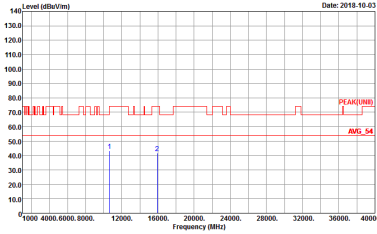
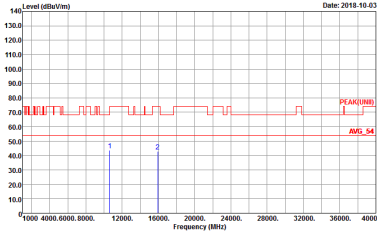
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH64 5320MHz                                                                                                                                                                                    |                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |
|              |                                                                                                                                                                                                              |                                                                                                                                                                                                             |



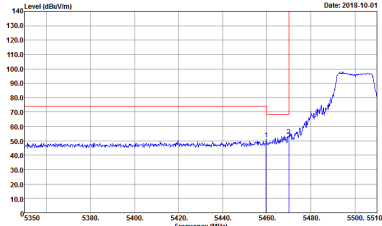
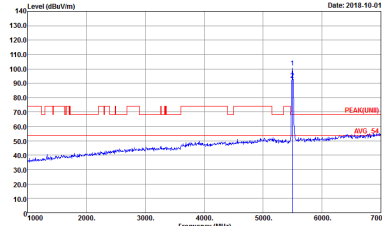
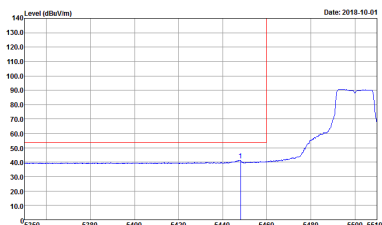
Band 2 5250~5350MHz  
WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH54 5270                                                                                                                                                                                       |                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |

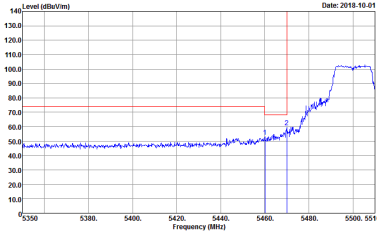
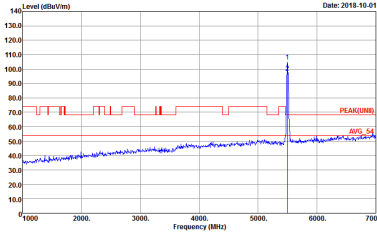
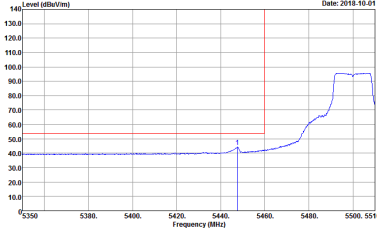


| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                       |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH62 5310                                                                                                                                                                                                 |                                                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                              |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> |
|              |                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |

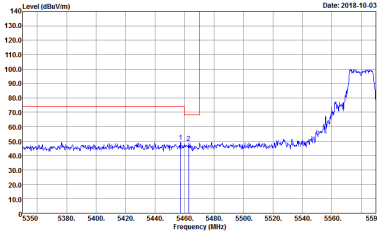
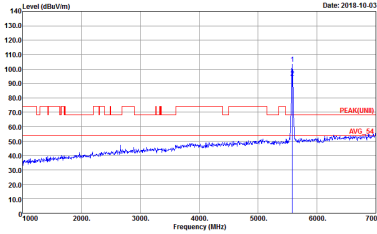
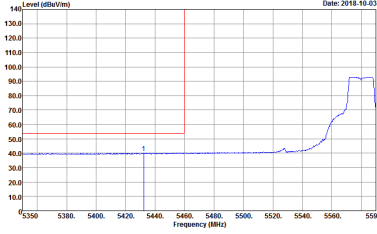
**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI        | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11a CH100 5500MHz                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                     |
| 1           | Horizontal                                                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                                                         |
| <b>Peak</b> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 890804-01         </p>  |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT1) 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 890804-01         </p> |
| <b>Avg.</b> |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 890804-01         </p> | <b>Left blank</b>                                                                                                                                                                                                                                                   |

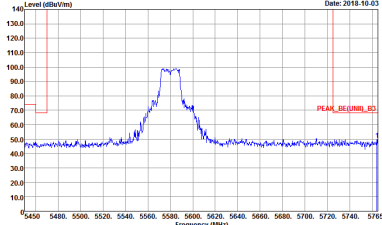


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                    |
| 1    | Vertical                                                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                                                        |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div>    | Left blank                                                                                                                                                                                                                                                         |

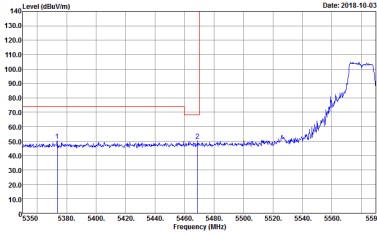
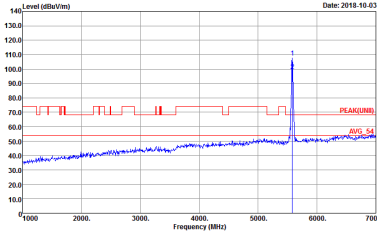
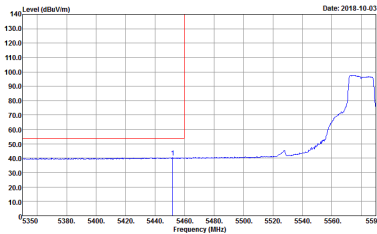


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                  |                                                                                                                                                                                                               |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                                                                           |                                                                                                                                                                                                               |
| 1    | Horizontal                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                   |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> | Left blank                                                                                                                                                                                                    |

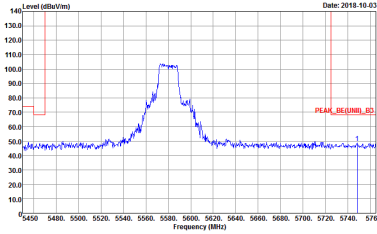


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                           |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                                                                                                                                                                    |             |
| 1    | Horizontal                                                                                                                                                                                                                   | Fundamental |
| Peak | <div><p>Site : 09CH11-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> | Left blank  |

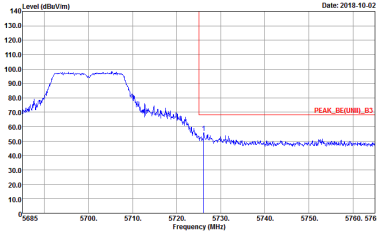
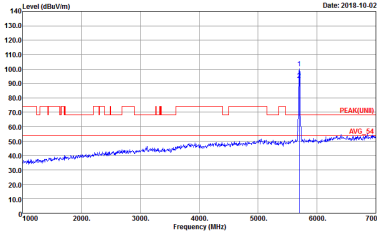


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                                                                         |                                                                                                                                                                                                             |
| 1    | Vertical                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                 |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> | Left blank                                                                                                                                                                                                  |

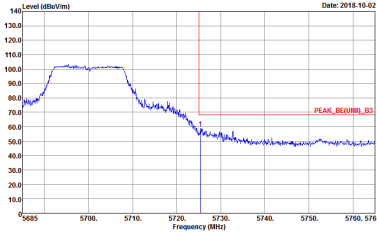
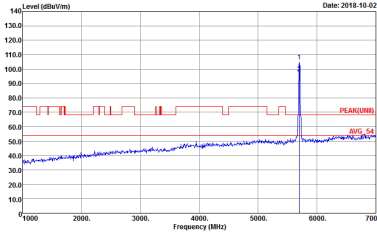


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                         |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                                                                                                                                                                  |             |
| 1    | Vertical                                                                                                                                                                                                                   | Fundamental |
| Peak | <div><p>Site : 09CH11-HV<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> | Left blank  |



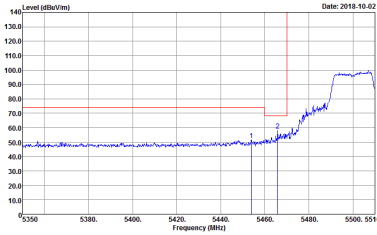
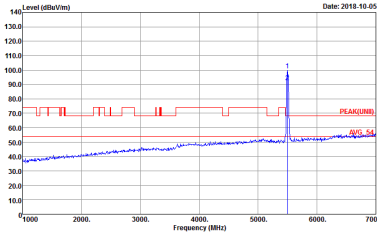
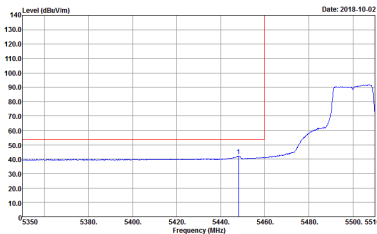
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> |



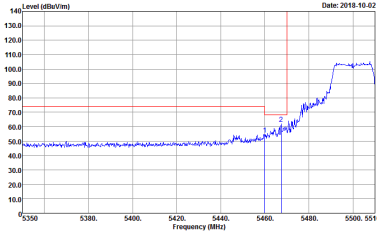
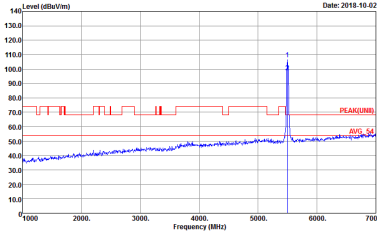
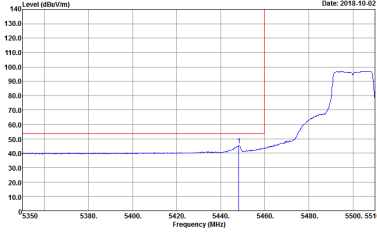
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                         |
| 1    | Vertical                                                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                                                             |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_F(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> |



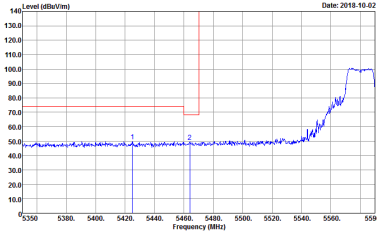
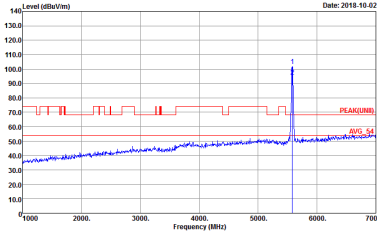
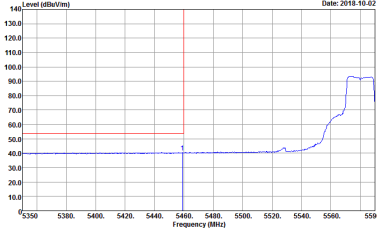
Band 3 5470~5725MHz  
WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                  |                                                                                                                                                                                                               |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH100 5500MHz                                                                                                                                                                                          |                                                                                                                                                                                                               |
| 1    | Horizontal                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                   |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p>  |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> | Left blank                                                                                                                                                                                                    |

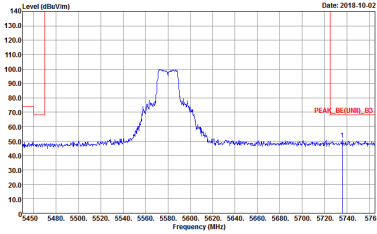


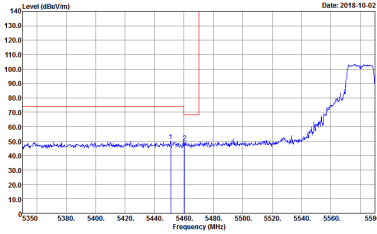
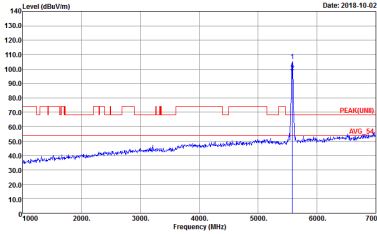
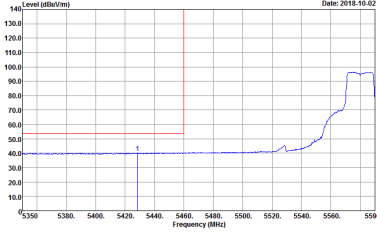
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                          |                                                                                                                                                                                                                       |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH100 5500MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                       |
| 1    | Vertical                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                           |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p></div>  | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> | Left blank                                                                                                                                                                                                            |



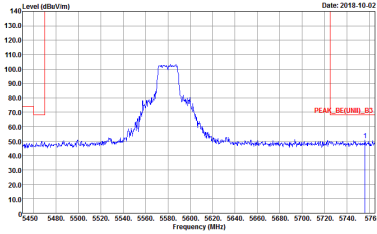
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH116 5580MHz - L                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>    | Left blank                                                                                                                                                                                                                                                 |



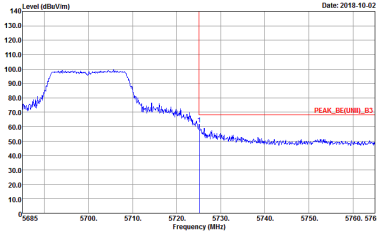
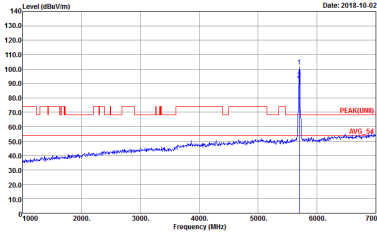
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                        |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH116 5580MHz - R                                                                                                                                                                                                                                            |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                | Fundamental |
| Peak | <div><p>Site : 09CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | Left blank  |

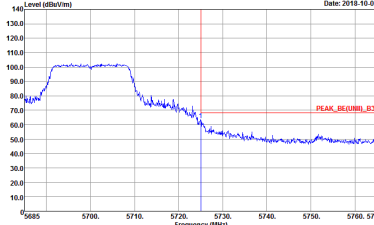
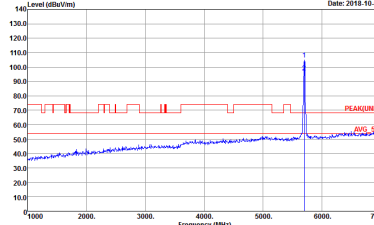
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH116 5580MHz - L                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                      |
| 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 : 890804-01         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 890804-01         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>           Project : 890804-01         </p>    | Left blank                                                                                                                                                                                                                                                                                           |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                      |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH116 5580MHz - R                                                                                                                                                                                                                                          |             |
| 1    | Vertical                                                                                                                                                                                                                                                                | Fundamental |
| Peak | <div><p>Site : 09CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | Left blank  |

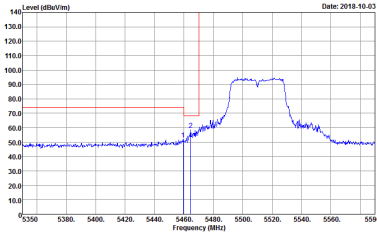
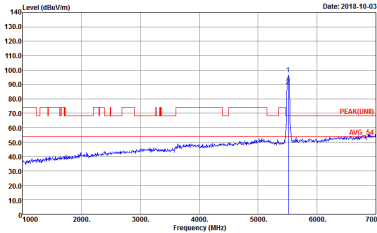
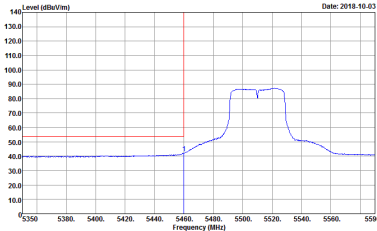


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                       |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH140 5700MHz                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                       |
| 1    | Horizontal                                                                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                                                                           |
| Peak | <div><p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 13</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 13</p></div> |

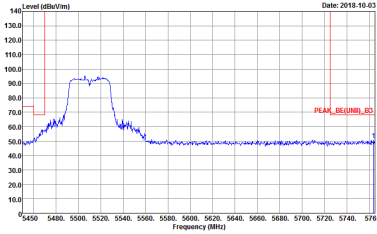
| WIFI  | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                |                                                                                                                                                                                                                                      |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT   | 802.11n HT20 CH140 5700MHz                                                                                                                                                                                                        |                                                                                                                                                                                                                                      |
| 1     | Vertical                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                          |
| Peak. |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 13</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK_F(UNIT)_B3 3m HORN 91200-HF FUNDAMENTAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 13</p> |

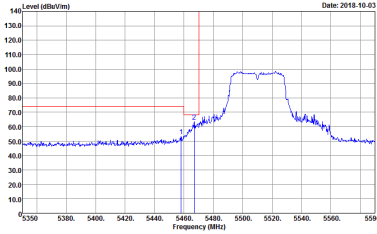
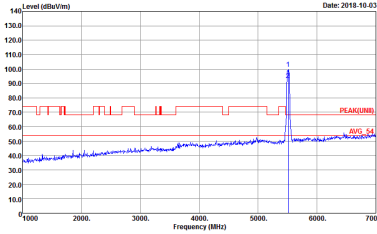
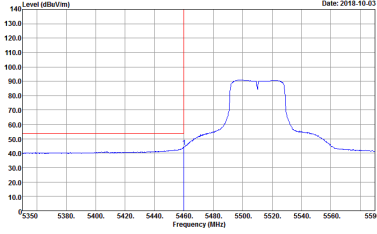


Band 3 5470~5725MHz  
WIFI 802.11n HT40 (Band Edge @ 3m)

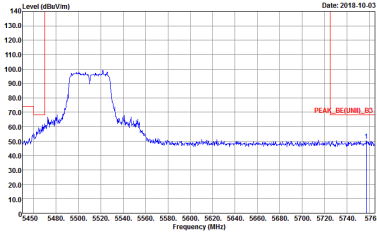
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH102 5510MHz - 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 : 890804-01<br/>Setting : 10.5</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 : 890804-01<br/>Setting : 10.5</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Project : 890804-01<br/>Setting : 10.5</p>    | Left blank                                                                                                                                                                                                                                                           |



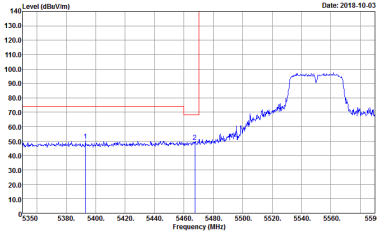
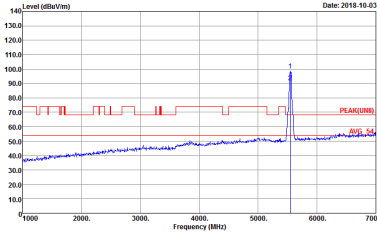
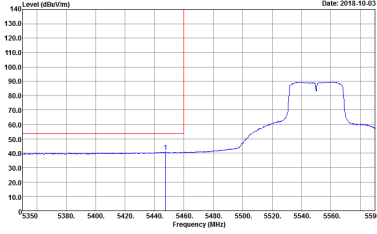
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                      |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH102 5510MHz - R                                                                                                                                                                                                                                                                          |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                              | Fundamental |
| Peak | <div><p>Site : 09CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Defector : Peak<br/>Project : 890804-01<br/>Setting : 10.5</p></div> | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH102 5510MHz - L                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                  |
| 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 : Peak<br/>           Setting : 890804-01<br/>           Setting : 10.5         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : Peak<br/>           Setting : 890804-01<br/>           Setting : 10.5         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>           Project : Peak<br/>           Setting : 890804-01<br/>           Setting : 10.5         </p>   | Left blank                                                                                                                                                                                                                                                                                                                                                       |

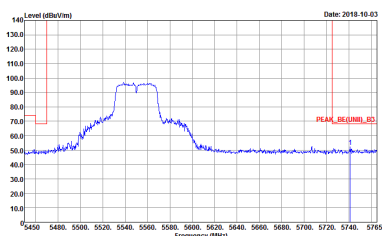


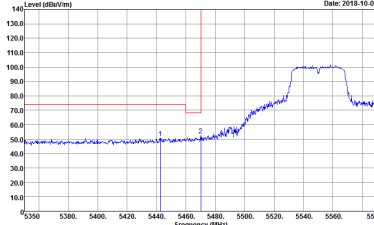
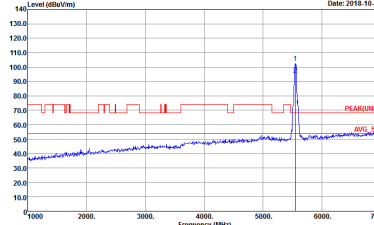
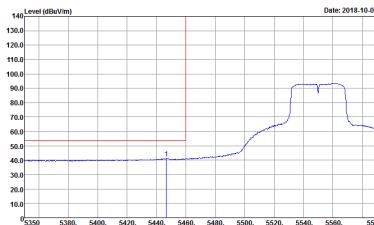
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                   |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH102 5510MHz - R                                                                                                                                                                                                                                       |             |
| 1    | Vertical                                                                                                                                                                                                                                                             | Fundamental |
| Peak | <div><p>Site : 09CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01<br/>Setting : 10.5</p><p>Date: 2018-10-03</p></div> | Left blank  |



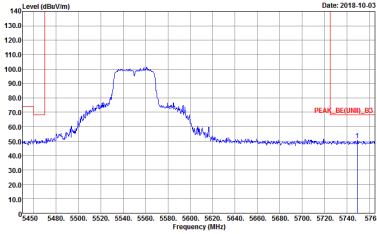
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH110 5550MHz - L                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p> |
| Avg. |  <p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p>    | Left blank                                                                                                                                                                                                                                                 |



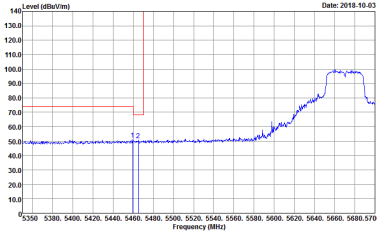
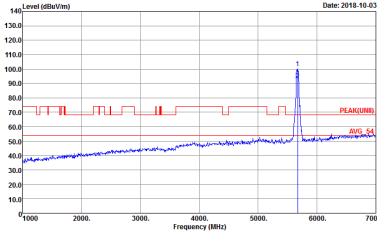
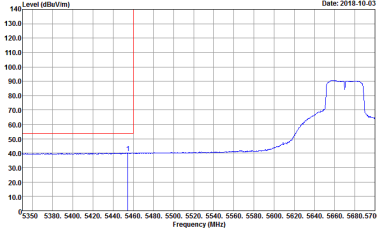
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                        |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH110 5550MHz - R                                                                                                                                                                                                                                            |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                | Fundamental |
| Peak | <div><p>Site : 09CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | Left blank  |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH110 5550MHz - L                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                      |
| 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 : 890804-01         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 890804-01         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>           Project : 890804-01         </p>    | Left blank                                                                                                                                                                                                                                                                                           |

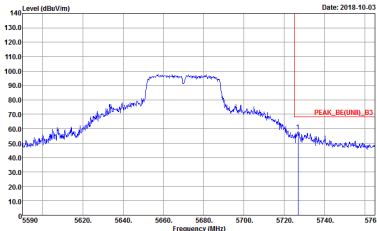


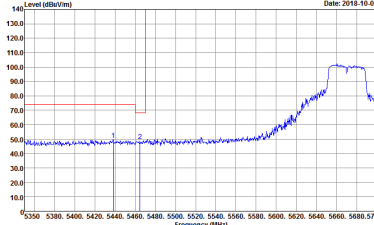
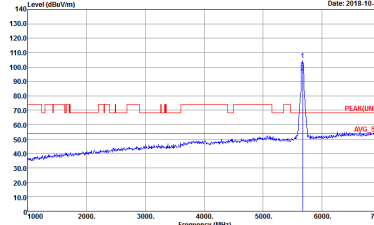
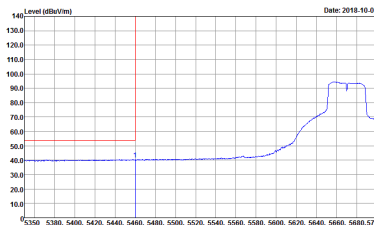
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                      |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH110 5550MHz - R                                                                                                                                                                                                                                          |             |
| 1    | Vertical                                                                                                                                                                                                                                                                | Fundamental |
| Peak | <div><p>Site : 09CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | Left blank  |



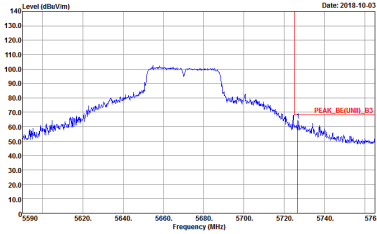
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH134 5670MHz - L                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                             |
| 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 : 890804-01</p></div> | <div><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 : 890804-01</p></div> |
| Avg. | <div><p>Site : 03CH11-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Project : 890804-01</p></div>    | Left blank                                                                                                                                                                                                                                                  |



|      |                                                                                                                                                                                                                                                                           |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                        |             |
| ANT  | 802.11n HT40 CH134 5670MHz - R                                                                                                                                                                                                                                            |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                | Fundamental |
| Peak | <div><p>Site : 09CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | Left blank  |

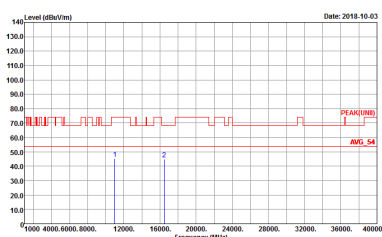
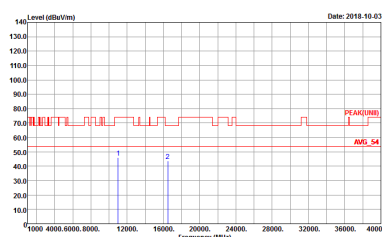
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH134 5670MHz - L                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                      |
| 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 : 890804-01         </p> |  <p>           Site : 03CH11-HY<br/>           Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Project : 890804-01         </p> |
| Avg. |  <p>           Site : 03CH11-HY<br/>           Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL<br/>           Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>           Project : 890804-01         </p>    | Left blank                                                                                                                                                                                                                                                                                           |



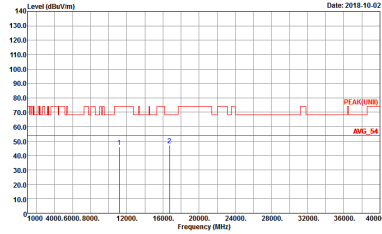
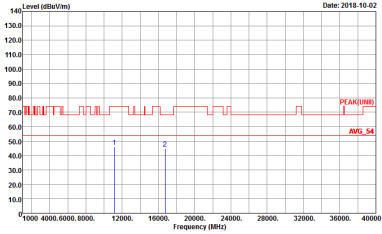
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                      |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH134 5670MHz - R                                                                                                                                                                                                                                          |             |
| 1    | Vertical                                                                                                                                                                                                                                                                | Fundamental |
| Peak | <div><p>Site : 09CH11-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 890804-01</p></div> | Left blank  |



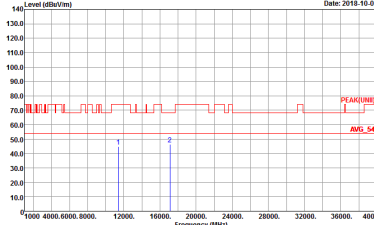
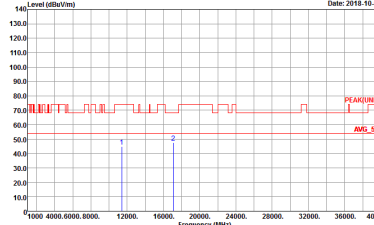
Band 3 - 5470~5725MHz  
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH100 5500MHz                                                                                                                                                                                        |                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |

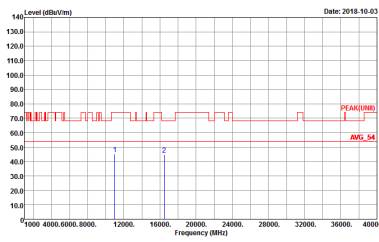
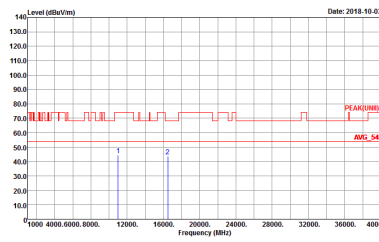


| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH116 5580MHz                                                                                                                                                                                        |                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |
|              |                                                                                                                                                                                                              |                                                                                                                                                                                                             |

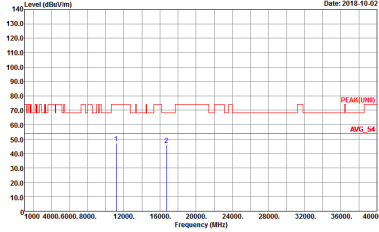
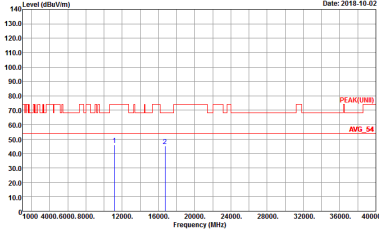


|              |                                                                                                                                                                                                                       |                                                                                                                                                                                                                      |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                      |
| ANT          | 802.11a CH140 5700MHz                                                                                                                                                                                                 |                                                                                                                                                                                                                      |
| 1            | Horizontal                                                                                                                                                                                                            | Vertical                                                                                                                                                                                                             |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UWB) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UWB) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> |

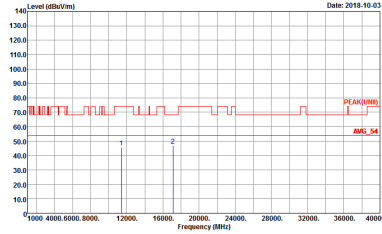
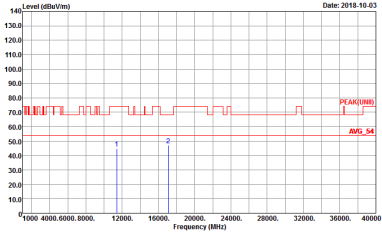
**Band 3 5470~5725MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI                           | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                               |                                                                                                                                                                                                                |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11n HT20 CH100 5500MHz                                                                                                                                                                                      |                                                                                                                                                                                                                |
| 1                              | Horizontal                                                                                                                                                                                                      | Vertical                                                                                                                                                                                                       |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/> Detector : Peak<br/> Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/> Detector : Peak<br/> Project : 890804-01</p> |

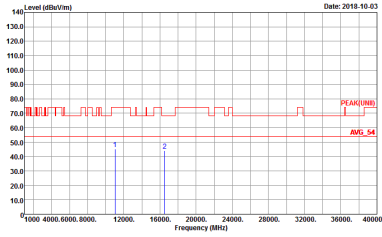
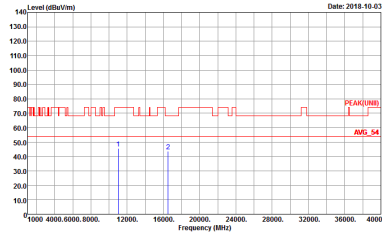


| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                       |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH116 5580MHz                                                                                                                                                                                             |                                                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                              |
| Peak<br>Avg. | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> | <div><p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p></div> |
|              |                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |

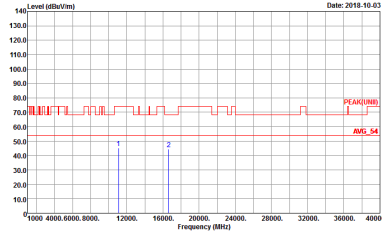
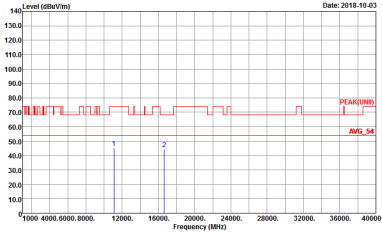


| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH140 5700MHz                                                                                                                                                                                   |                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |
|              |                                                                                                                                                                                                              |                                                                                                                                                                                                             |

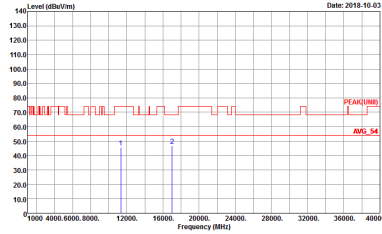
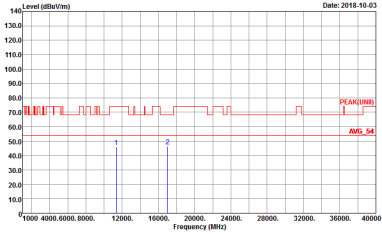
**Band 3 5470~5725MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

| WIFI                           | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                               |                                                                                                                                                                                                                |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11n HT40 CH102 5510MHz                                                                                                                                                                                      |                                                                                                                                                                                                                |
| 1                              | Horizontal                                                                                                                                                                                                      | Vertical                                                                                                                                                                                                       |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/> Detector : Peak<br/> Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/> Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/> Detector : Peak<br/> Project : 890804-01</p> |



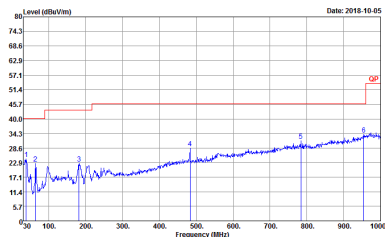
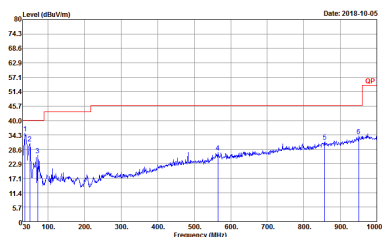
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH110 5550MHz                                                                                                                                                                                   |                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |
|              |                                                                                                                                                                                                              |                                                                                                                                                                                                             |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH134 5670MHz                                                                                                                                                                                   |                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : PEAK(UNED) 3m HORN 91200-HF VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |
|              |                                                                                                                                                                                                              |                                                                                                                                                                                                             |



Emission below 1GHz  
5GHz WIFI 802.11n HT40 (LF)

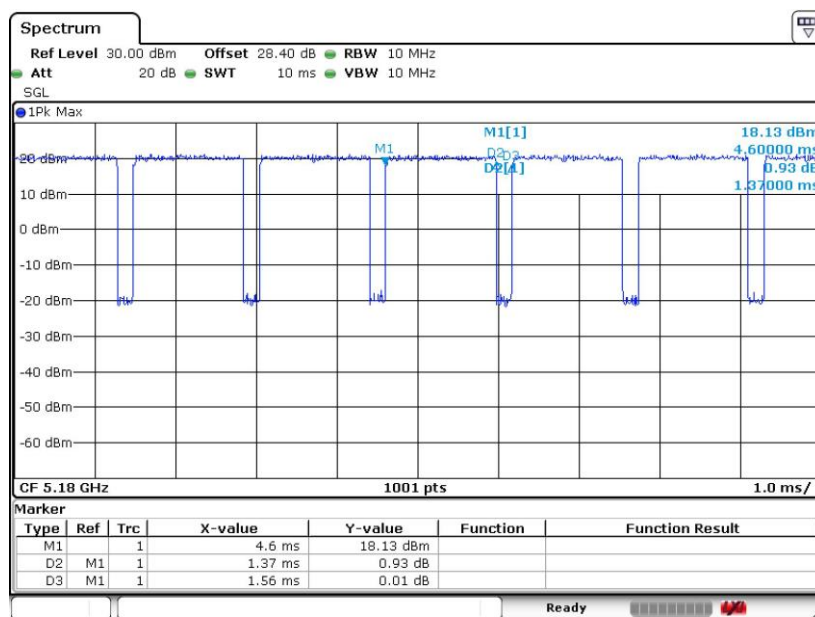
| WIFI         | 5GHz WIFI                                                                                                                                                                                                  |                                                                                                                                                                                                           |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 LF                                                                                                                                                                                            |                                                                                                                                                                                                           |
| 1            | Horizontal                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                  |
| QP /<br>Peak |  <p>Site : 03CH11-HY<br/>Condition : QP 3m BE-LOG 6111D-LF_ETC HORIZONTAL<br/>Detector : Peak<br/>Project : 890804-01</p> |  <p>Site : 03CH11-HY<br/>Condition : QP 3m BE-LOG 6111D-LF_ETC VERTICAL<br/>Detector : Peak<br/>Project : 890804-01</p> |
|              |                                                                                                                                                                                                            |                                                                                                                                                                                                           |



## Appendix E. Duty Cycle Plots

| Band              | Duty Cycle (%) | T(us) | 1/T(kHz) | VBW Setting | Duty Factor(dB) |
|-------------------|----------------|-------|----------|-------------|-----------------|
| 802.11a           | 87.82          | 1370  | 0.730    | 1kHz        | 0.56            |
| 5GHz 802.11n HT20 | 86.49          | 1280  | 0.781    | 1kHz        | 0.63            |
| 5GHz 802.11n HT40 | 87.13          | 1490  | 0.671    | 1kHz        | 0.60            |

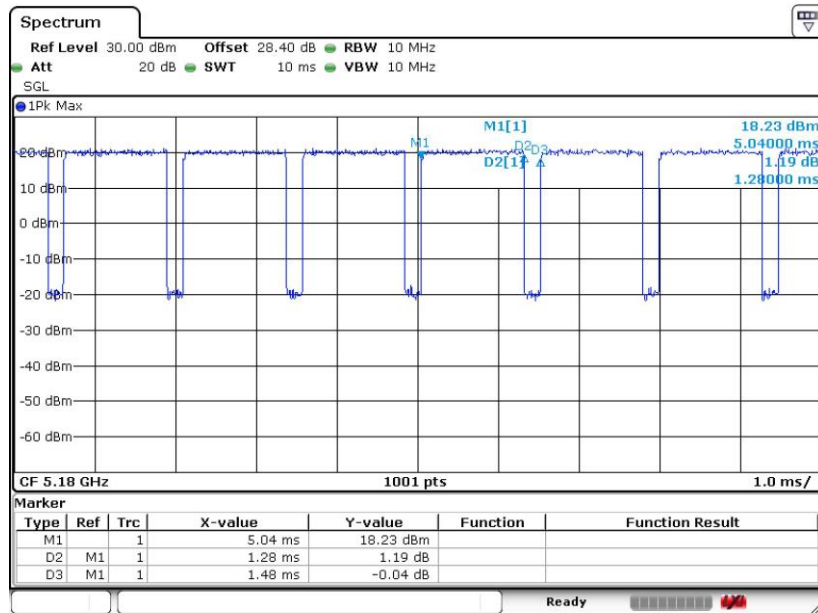
### 802.11a



Date: 21.SEP.2018 00:17:07

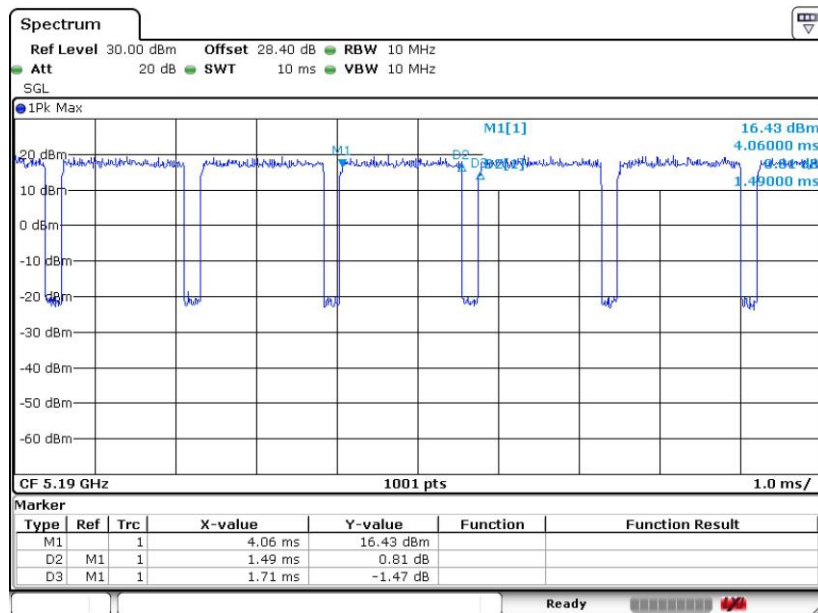


## 802.11n HT20



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## 802.11n HT40



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—THE END—