



# FCC RF Test Report

**APPLICANT** : Sony Mobile Communications Inc.  
**EQUIPMENT** : GSM/WCDMA/LTE Phone + Bluetooth, DTS/UNII  
a/b/g/n/ac, ANT+, and NFC  
**BRAND NAME** : Sony  
**FCC ID** : PY7-PM0882  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on Jul. 16, 2015 and testing was completed on Aug. 26, 2015. 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 test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

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Reviewed by: Joseph Lin / Supervisor

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Approved by: Jones Tsai / Manager



## **SPORTON INTERNATIONAL INC.**

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FCC ID : PY7-PM0882

Page Number : 1 of 34

Report Issued Date : Sep. 03, 2015

Report Version : Rev. 01

Report Template No.: BU5-FR15EWL AC Version 1.0



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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FR571619F  | Rev. 01 | Initial issue of report | Sep. 03, 2015 |
|            |         |                         |               |
|            |         |                         |               |
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|            |         |                         |               |

## SUMMARY OF TEST RESULT

| Report Section | FCC Rule              | Description                            | Limit                                             | Result | Remark                                    |
|----------------|-----------------------|----------------------------------------|---------------------------------------------------|--------|-------------------------------------------|
| 3.1            | 2.1049<br>15.403(i)   | 26dB & 99% Bandwidth                   | -                                                 | Pass   | -                                         |
| 3.2            | 15.407(a)             | Maximum Conducted Output Power         | $\leq 24$ dBm<br>(depend on band)                 | Pass   | -                                         |
| 3.3            | 15.407(a)             | Power Spectral Density                 | $\leq 11$ dBm<br>(depend on band)                 | Pass   | -                                         |
| 3.4            | 15.407(b)             | Unwanted Emissions                     | $\leq -17, -27$ dBm<br>(depend on band)&15.209(a) | Pass   | Under limit<br>1.26 dB at<br>5150.000 MHz |
| 3.5            | 15.207                | AC Conducted Emission                  | 15.207(a)                                         | Pass   | Under limit<br>19.30 dB at<br>0.614 MHz   |
| 3.6            | 15.407(g)             | Frequency Stability                    | Within Operation Band                             | Pass   | -                                         |
| 3.7            | 15.407(c)             | Automatically Discontinue Transmission | Discontinue Transmission                          | Pass   | -                                         |
| 3.8            | 15.203 &<br>15.407(a) | Antenna Requirement                    | N/A                                               | Pass   | -                                         |

**Remark:** The FR571619F report reuses test data from the FR571617F report.



# 1 General Description

## 1.1 Applicant

Sony Mobile Communications Inc.  
Nya Vattentorget, 22188 Lund, Sweden

## 1.2 Manufacturer

Sony Mobile Communications Inc.  
1-8-15 Konan, Minato-ku, Tokyo, 108-0075, Japan

## 1.3 Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, ANT+, NFC and GPS

| Product Specification subjective to this standard |                                                                                                       |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Antenna Type                                      | Monopole Antenna                                                                                      |
| Antenna Gain                                      | <5150 MHz ~ 5250 MHz>: -3.22dBi<br><5250 MHz ~ 5350 MHz>: -3.22dBi<br><5470 MHz ~ 5725 MHz>: -2.85dBi |

| EUT Information List |            |              |            |                            |
|----------------------|------------|--------------|------------|----------------------------|
| IMEI                 | HW Version | SW Version   | S/N        | Performed Test Item        |
| 004402455123152      | A          | 32.0.A.0.287 | CB5A273TKQ | RF conducted measurement   |
| 004402455122295      |            |              | CB5A273TGC | Radiated Spurious Emission |
| 004402455122410      |            |              | CB5A273THY | Conducted Emission         |

| Accessory List |                                                                                                       |
|----------------|-------------------------------------------------------------------------------------------------------|
| AC Adapter     | Model No. : UCH20                                                                                     |
|                | Type No. : AC-0061-US                                                                                 |
|                | S/N :<br>2115W15500021 (for Radiation Spurious Emission)<br>5815W22500112 (for Conducted Emission)    |
|                |                                                                                                       |
| Earphone       | Model No. : MDR-NC31E                                                                                 |
|                | Type No. : AG-1110                                                                                    |
| USB Cable      | Model No. : UCB11                                                                                     |
|                | Type No. : AI-0120                                                                                    |
|                | S/N :<br>1522A731000010A (for Radiated Spurious Emission)<br>1512A73E0001BD0 (for Conducted Emission) |
|                |                                                                                                       |

### Note:

1. Above EUT list and accessory list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test.
3. For other wireless features of this EUT, test report will be issued separately.



## 1.4 Modification of EUT

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

## 1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 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, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park,<br>Kwei-Shan District, Tao Yuan 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 | 03CH07-HY |

**Note:** The test site complies with ANSI C63.4 2009 requirement.

## 1.6 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 v01
- FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01
- ANSI C63.10-2009

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. FCC permits the use of the 1.5 meter table as an alternative in C63.10-2013 through inquiry tracking number 961829.



## **2 Test Configuration of Equipment Under Test**

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: conducted emission (150 kHz to 30 MHz) and radiated 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 (Z plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

## 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        |
|                                      | <b>38</b> | <b>5190</b> | <b>46</b> | <b>5230</b> |
|                                      | 40        | 5200        | 48        | 5240        |
|                                      | 42        | 5210        |           |             |

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

| Frequency Band                        | Channel    | Freq. (MHz) | Channel    | Freq. (MHz) |
|---------------------------------------|------------|-------------|------------|-------------|
| 5470-5725 MHz<br>Band 3<br>(U-NII-2C) | 100        | 5500        | 120        | 5600        |
|                                       | <b>102</b> | <b>5510</b> | 122        | 5610        |
|                                       | 104        | 5520        | 124        | 5620        |
|                                       | 106        | 5530        | 126        | 5630        |
|                                       | 108        | 5540        | 128        | 5640        |
|                                       | <b>110</b> | <b>5550</b> | 132        | 5660        |
|                                       | 112        | 5560        | <b>134</b> | <b>5670</b> |
|                                       | 116        | 5580        | 136        | 5680        |
|                                       | 118        | 5590        | 140        | 5700        |

| Frequency Band   | Channel | Freq. (MHz) | Channel    | Freq. (MHz) |
|------------------|---------|-------------|------------|-------------|
| Straddle Channel | 144     | 5720        | <b>142</b> | <b>5710</b> |
|                  | 138     | 5690        |            |             |

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



## 2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test in the following tables. Final Output Power equals to Measured Output Power adds the duty factor.

| 5GHz 802.11a mode |        |        |         |         |         |         |         |         |
|-------------------|--------|--------|---------|---------|---------|---------|---------|---------|
| Data Rate (MHz)   | 6M bps | 9M bps | 12M bps | 18M bps | 24M bps | 36M bps | 48M bps | 54M bps |
| Avg. Power (dBm)  | 12.66  | 12.60  | 12.62   | 12.65   | 12.51   | 12.62   | 12.61   | 12.59   |

| 5GHz 802.11n HT20 mode |       |       |       |       |       |       |       |       |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Data Rate (MHz)        | MCS0  | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| Avg. Power (dBm)       | 12.67 | 12.66 | 12.66 | 12.66 | 12.65 | 12.65 | 12.63 | 12.64 |

| 5GHz 802.11n HT40mode |       |       |       |       |       |       |       |       |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Data Rate (MHz)       | MCS0  | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| Avg. Power (dBm)      | 12.90 | 12.89 | 12.88 | 12.89 | 12.62 | 12.54 | 12.59 | 12.60 |

| 5GHz 802.11ac VHT20 mode |       |       |       |       |       |       |       |       |       |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Data Rate (MHz)          | MCS 0 | MCS 1 | MCS 2 | MCS 3 | MCS 4 | MCS 5 | MCS 6 | MCS 7 | MCS 8 |
| Avg. Power (dBm)         | 12.76 | 12.74 | 12.75 | 12.75 | 12.72 | 12.75 | 12.74 | 12.74 | 12.75 |

| 5GHz 802.11ac VHT40 mode |       |       |       |       |       |       |       |       |       |       |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Data Rate (MHz)          | MCS 0 | MCS 1 | MCS 2 | MCS 3 | MCS 4 | MCS 5 | MCS 6 | MCS 7 | MCS 8 | MCS 9 |
| Avg. Power (dBm)         | 12.85 | 12.79 | 12.81 | 12.84 | 12.82 | 12.84 | 12.84 | 12.83 | 12.83 | 12.83 |

| 5GHz 802.11ac VHT80 mode |       |       |       |       |       |       |       |       |       |       |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Data Rate (MHz)          | MCS 0 | MCS 1 | MCS 2 | MCS 3 | MCS 4 | MCS 5 | MCS 6 | MCS 7 | MCS 8 | MCS 9 |
| Avg. Power (dBm)         | 12.89 | 12.87 | 12.86 | 12.86 | 12.88 | 12.76 | 12.85 | 12.85 | 12.83 | 12.83 |

## 2.3 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

The radiated spurious emissions testing were performed in n-mode only for HT20/40, which covers ac-mode testing.

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

| Test Cases            |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| AC Conducted Emission | Mode 1 : WLAN (5GHz) Link + Earphone + USB Cable (Charging from Adapter) |

| Ch. #         |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|---------------|--------|------------------------|-------------------------|-------------------------|
|               |        | 802.11a                | 802.11a                 | 802.11a                 |
| L             | Low    | 36                     | 52                      | 100                     |
| M             | Middle | 44                     | 60                      | 116                     |
| H             | High   | 48                     | 64                      | 140                     |
| Straddle Band |        | -                      | -                       | 144                     |

| 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                     |
| Straddle Band |        | -                      | -                       | 144                     |



| 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                     |
| Straddle Band |        | -                      | -                       | 142                     |

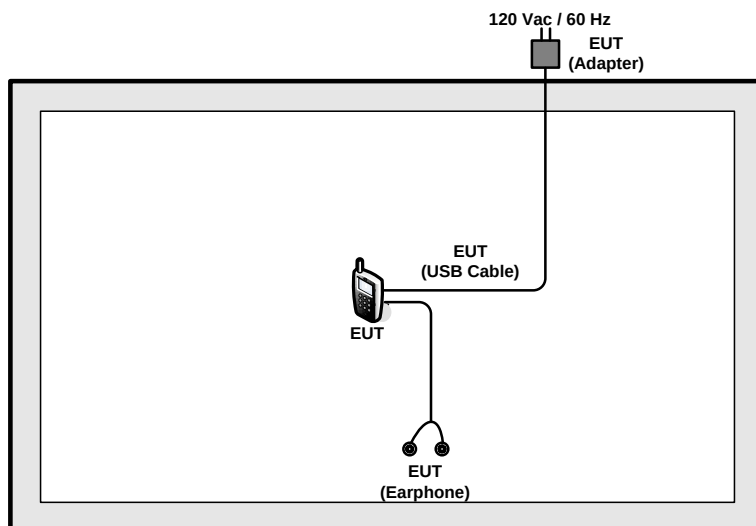
| Ch. # |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11ac VHT20         | 802.11ac VHT20          | 802.11ac VHT20          |
| L     | Low    | 36                     | 52                      | 100                     |
| M     | Middle | 44                     | 60                      | 116                     |
| H     | High   | 48                     | 64                      | 140                     |

| Ch. # |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|-------|--------|------------------------|-------------------------|-------------------------|
|       |        | 802.11ac VHT40         | 802.11ac VHT40          | 802.11ac VHT40          |
| L     | Low    | 38                     | 54                      | 102                     |
| M     | Middle | -                      | -                       | 110                     |
| H     | High   | 46                     | 62                      | 134                     |

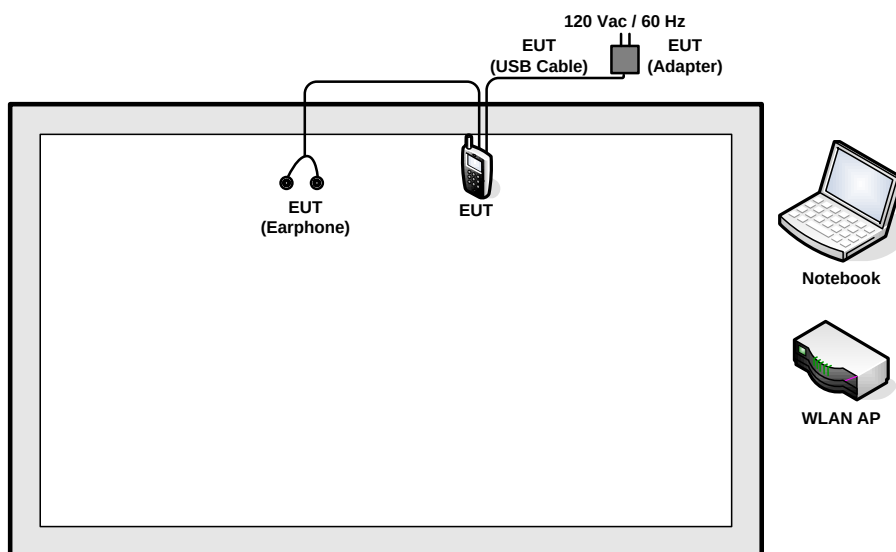
| Ch. #         |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|---------------|--------|------------------------|-------------------------|-------------------------|
|               |        | 802.11ac VHT80         | 802.11ac VHT80          | 802.11ac VHT80          |
| L             | Low    | -                      | -                       | -                       |
| M             | Middle | 42                     | 58                      | 106                     |
| H             | High   | -                      | -                       | -                       |
| Straddle Band |        | -                      | -                       | 138                     |

## 2.4 Connection Diagram of Test System

### <WLAN Tx Mode>



### <AC Conducted Emission Mode>



## 2.5 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name     | FCC ID                                       | Data Cable | Power Cord                                                 |
|------|-----------|------------|----------------|----------------------------------------------|------------|------------------------------------------------------------|
| 1.   | WLAN AP   | D-Link     | DIR-865L       | KA2IR865LA1                                  | N/A        | Unshielded, 1.8 m                                          |
| 2.   | Notebook  | DELL       | Latitude E6320 | FCC DoC/<br>Contains FCC ID:<br>QDS-BRCM1054 | N/A        | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 3.   | SD Card   | SanDisk    | MicroSD HC     | FCC DoC                                      | N/A        | N/A                                                        |

## 2.6 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.

## 2.7 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.

*Offset(dB) = RF cable loss(dB) + attenuator factor(dB).*

*= 4.2 + 10 = 14.2 (dB)*

### 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.

For Straddle Channel, U-NII procedures were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

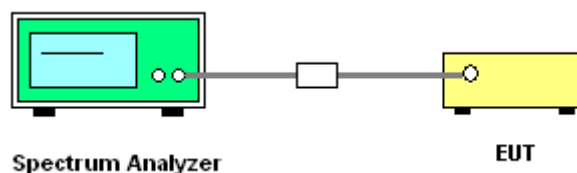
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.  
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 1MHz and set the Video bandwidth (VBW)  $\geq 3 * \text{RBW}$ .
8. Measure and record the results in the test report.

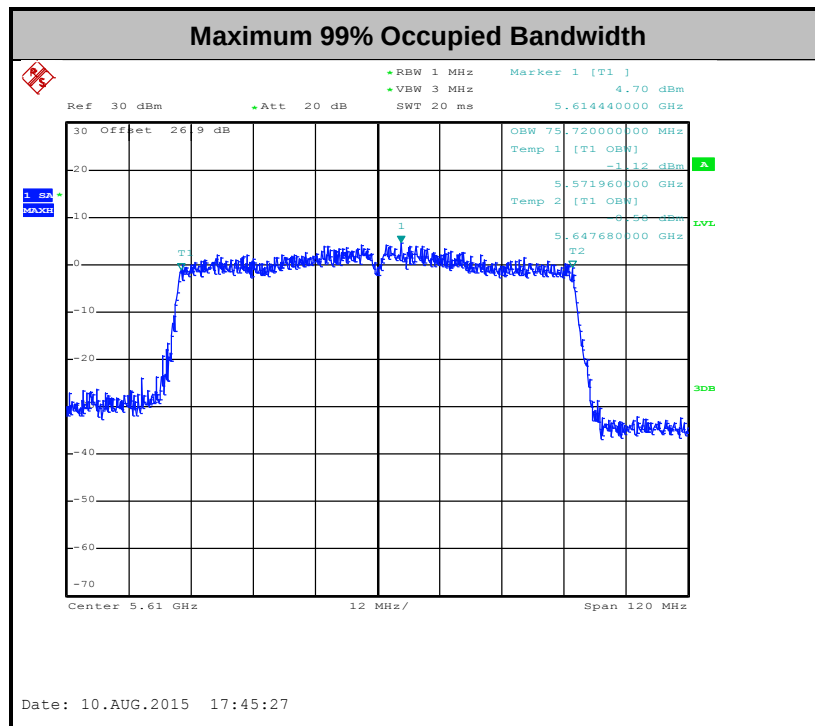
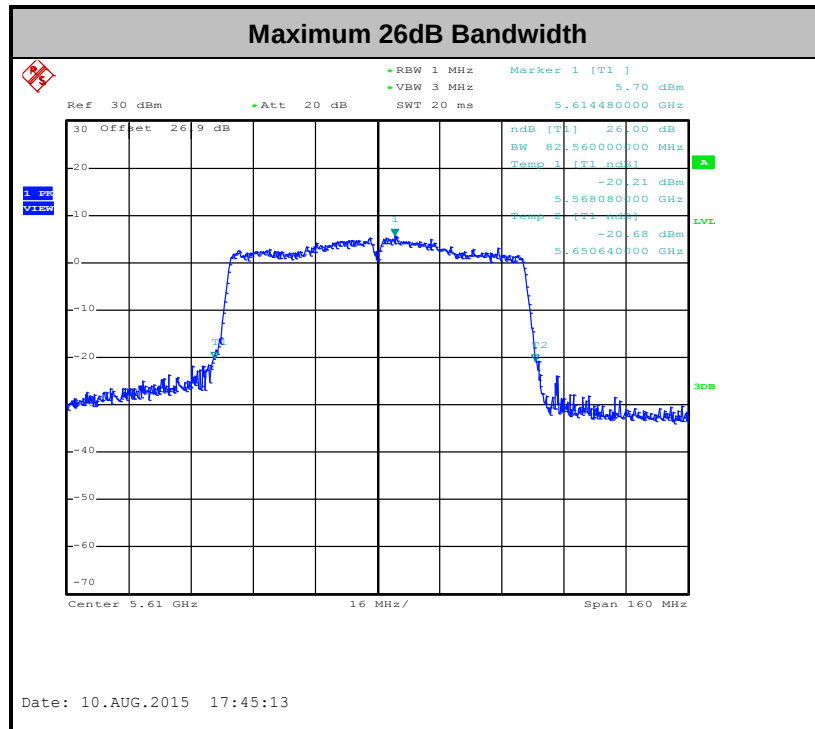
##### 3.1.4 Test Setup





### 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**

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 the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

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**

The measuring equipment is listed in the section 4 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 v01.

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

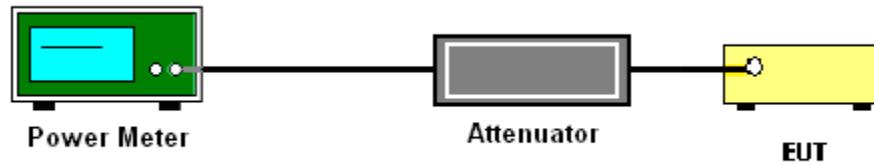
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor,  $10 \log(1/x)$ , where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

For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

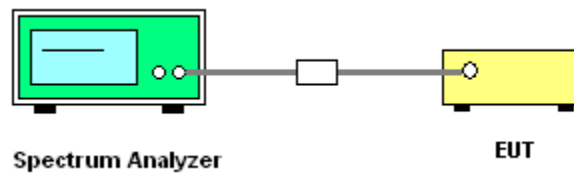
Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

### 3.2.4 Test Setup

For normal channel:

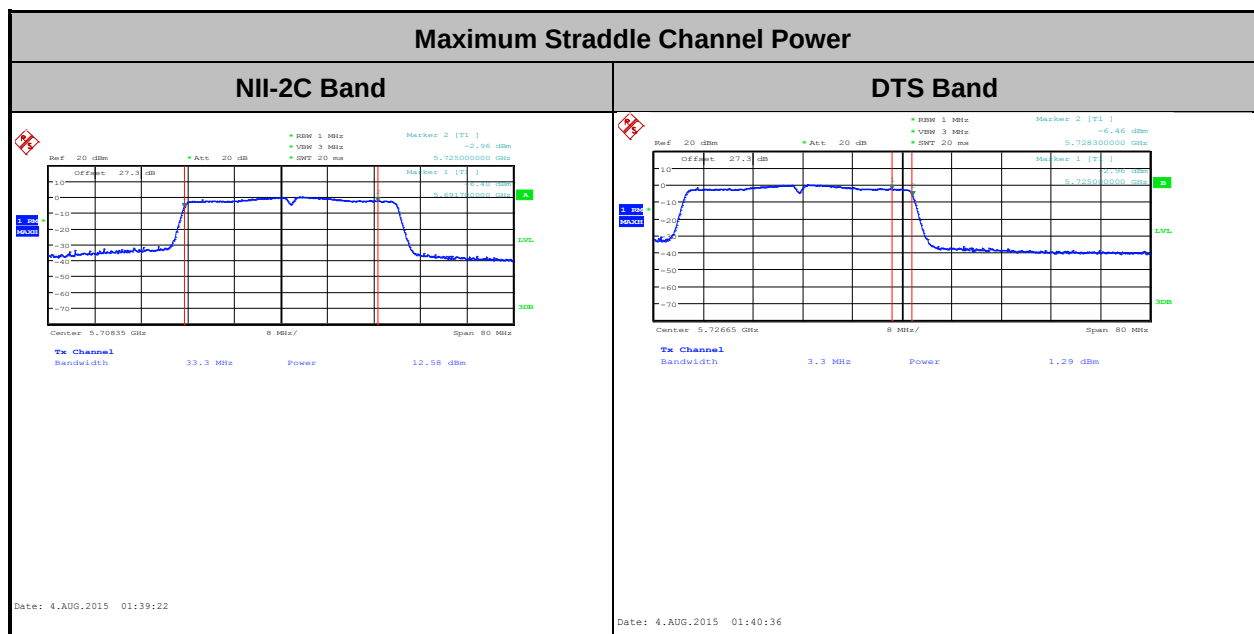


For straddle channel:



### 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

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

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

The measuring equipment is listed in the section 4 of this test report.

#### 3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

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).

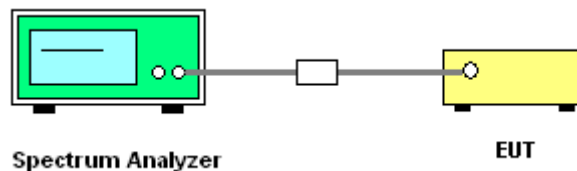
1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
  - Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 1 MHz.
  - Set VBW  $\geq$  3 MHz.
  - Number of points in sweep  $\geq$  2 Span / 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.

2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
4. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (1): Measure and sum the spectra across the outputs.

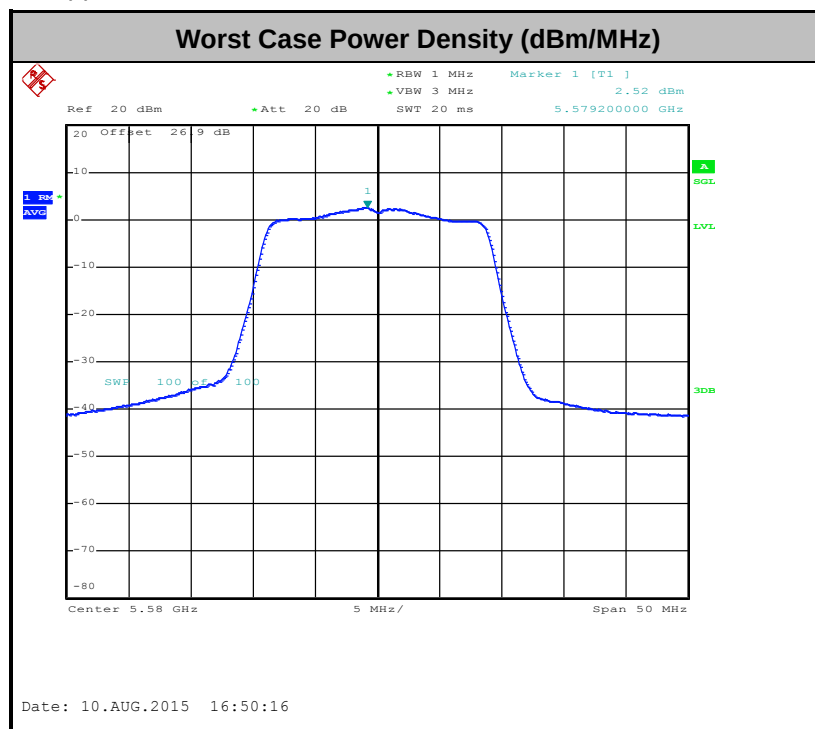
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of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

### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



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

### 3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

#### 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 per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 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.

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

| EIRP (dBm) | Field Strength at 3m (dBμV/m) |
|------------|-------------------------------|
| -17        | 78.3                          |
| - 27       | 68.3                          |

- (3) KDB789033 v01 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01. 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

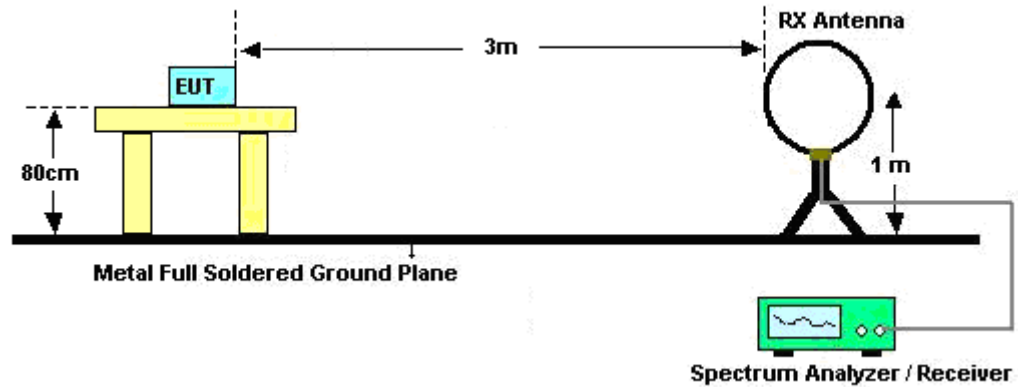
- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- $VBW \geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

| Band                | Duty Cycle(%) | T(us)   | 1/T(kHz) | VBW Setting |
|---------------------|---------------|---------|----------|-------------|
| 802.11a             | 98.00         | -       | -        | 10Hz        |
| 5GHz 802.11n HT20   | 98.75         | -       | -        | 10Hz        |
| 5GHz 802.11n HT40   | 95.46         | 1416.67 | 0.71     | 1kHz        |
| 5GHz 802.11ac VHT80 | 90.41         | 679.49  | 1.47     | 2kHz        |

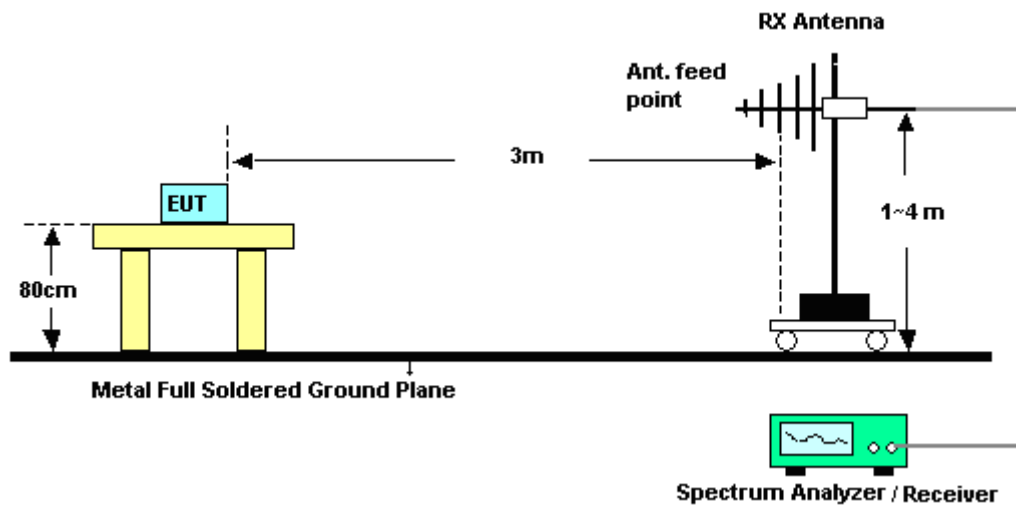
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

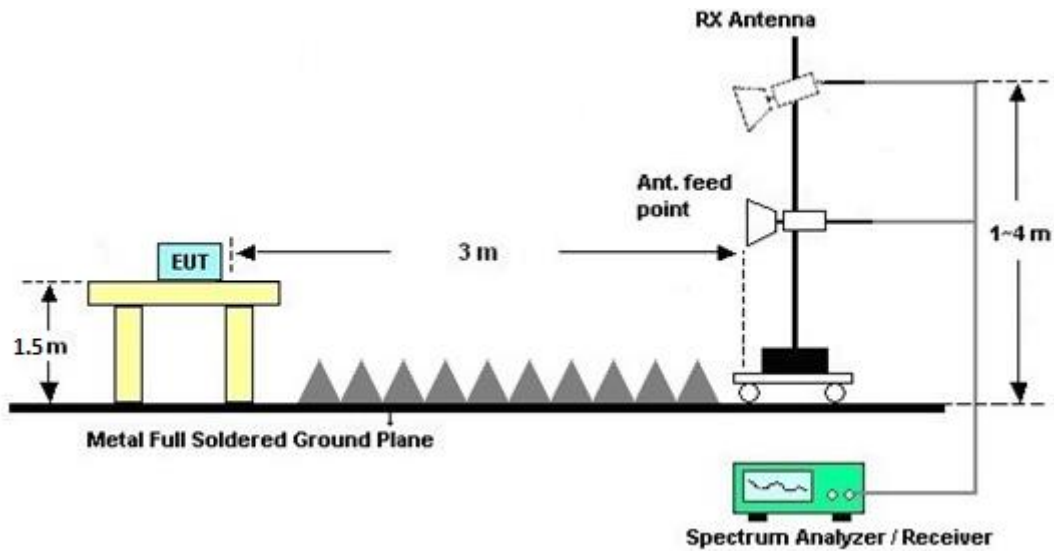
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



### 3.4.5 Test Results of Radiated 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 per 15.31(o) was not reported.

### 3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix A.

### 3.4.7 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix A.

### 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.

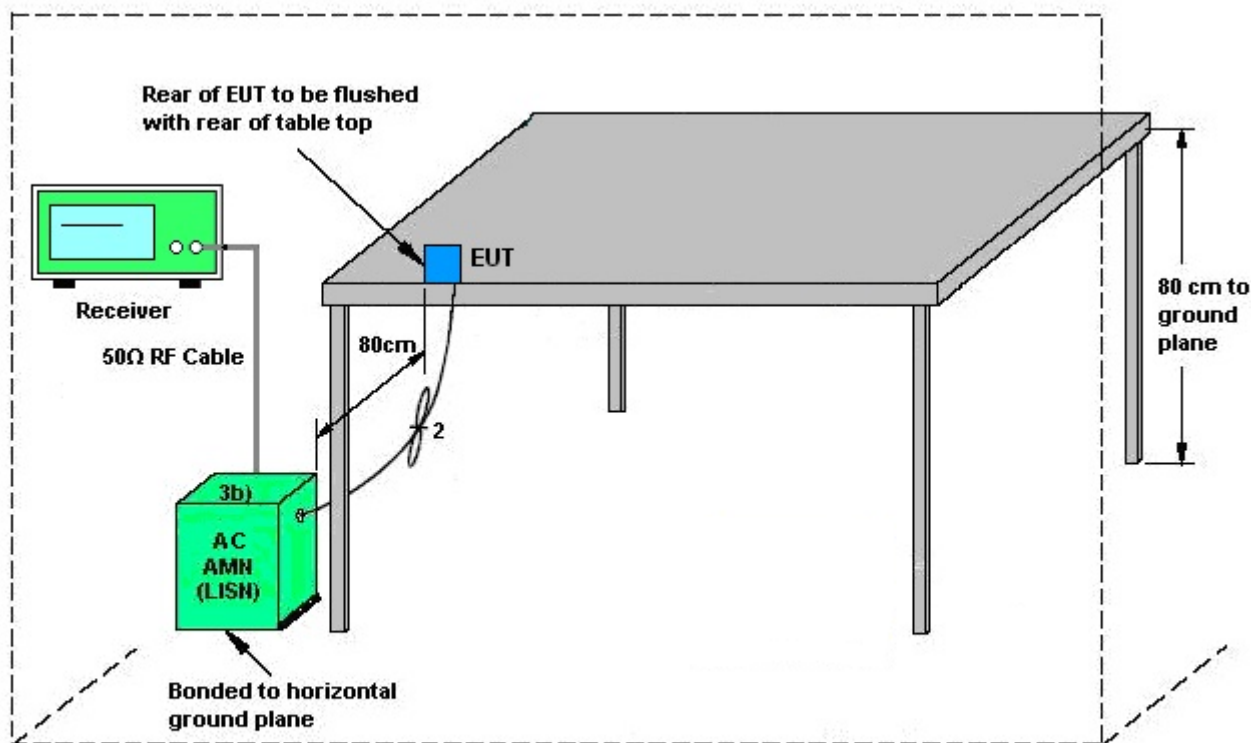
#### 3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 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.

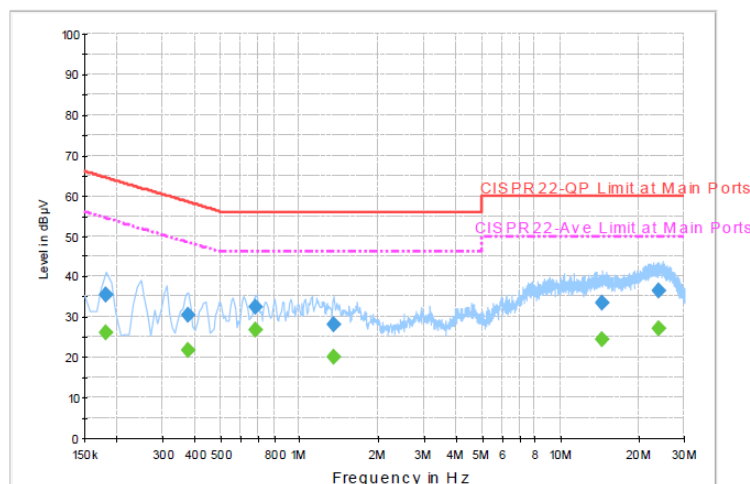
### 3.5.4 Test Setup



AMN = Artificial mains network (LISH)  
 AE = Associated equipment  
 EUT = Equipment under test  
 ISN = Impedance stabilization network

### 3.5.5 Test Result of AC Conducted Emission

|                        |                                                                 |                            |         |
|------------------------|-----------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 1                                                          | <b>Temperature :</b>       | 23~25°C |
| <b>Test Engineer :</b> | Eric Jeng                                                       | <b>Relative Humidity :</b> | 58~61%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                   | <b>Phase :</b>             | Line    |
| <b>Function Type :</b> | WLAN (5GHz) Link + Earphone + USB Cable (Charging from Adapter) |                            |         |



#### Final Result : QuasiPeak

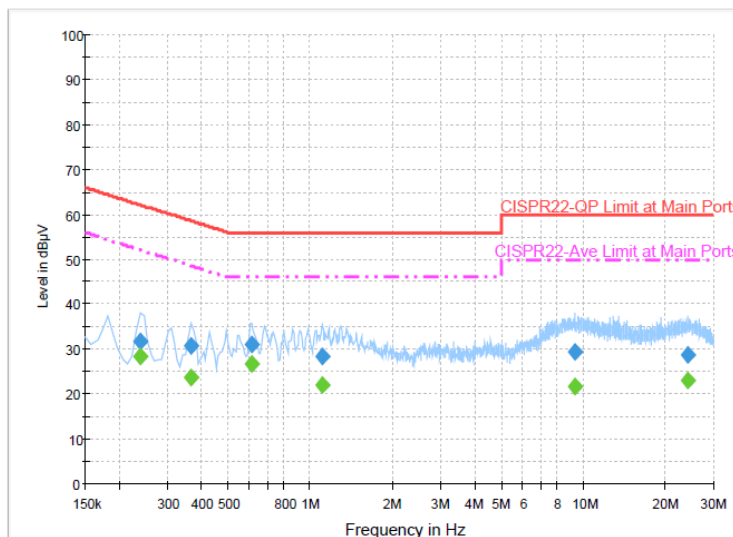
| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.182000        | 35.6             | Off    | L1   | 19.5       | 28.8        | 64.4         |
| 0.374000        | 30.5             | Off    | L1   | 19.5       | 27.9        | 58.4         |
| 0.678000        | 32.5             | Off    | L1   | 19.6       | 23.5        | 56.0         |
| 1.350000        | 28.2             | Off    | L1   | 19.6       | 27.8        | 56.0         |
| 14.438000       | 33.4             | Off    | L1   | 20.0       | 26.6        | 60.0         |
| 24.046000       | 36.5             | Off    | L1   | 20.0       | 23.5        | 60.0         |

#### Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.182000        | 26.2           | Off    | L1   | 19.5       | 28.2        | 54.4         |
| 0.374000        | 21.9           | Off    | L1   | 19.5       | 26.5        | 48.4         |
| 0.678000        | 26.6           | Off    | L1   | 19.6       | 19.4        | 46.0         |
| 1.350000        | 20.1           | Off    | L1   | 19.6       | 25.9        | 46.0         |
| 14.438000       | 24.3           | Off    | L1   | 20.0       | 25.7        | 50.0         |
| 24.046000       | 27.0           | Off    | L1   | 20.0       | 23.0        | 50.0         |



|                 |                                                                 |                     |         |
|-----------------|-----------------------------------------------------------------|---------------------|---------|
| Test Mode :     | Mode 1                                                          | Temperature :       | 23~25°C |
| Test Engineer : | Eric Jeng                                                       | Relative Humidity : | 58~61%  |
| Test Voltage :  | 120Vac / 60Hz                                                   | Phase :             | Neutral |
| Function Type : | WLAN (5GHz) Link + Earphone + USB Cable (Charging from Adapter) |                     |         |

**Final Result : QuasiPeak**

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.238000        | 31.9             | Off    | N    | 19.5       | 30.3        | 62.2         |
| 0.366000        | 30.8             | Off    | N    | 19.5       | 27.8        | 58.6         |
| 0.614000        | 31.1             | Off    | N    | 19.5       | 24.9        | 56.0         |
| 1.110000        | 28.5             | Off    | N    | 19.5       | 27.5        | 56.0         |
| 9.374000        | 29.6             | Off    | N    | 19.8       | 30.4        | 60.0         |
| 24.078000       | 28.6             | Off    | N    | 20.1       | 31.4        | 60.0         |

**Final Result : Average**

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.238000        | 28.5           | Off    | N    | 19.5       | 23.7        | 52.2         |
| 0.366000        | 23.8           | Off    | N    | 19.5       | 24.8        | 48.6         |
| 0.614000        | 26.7           | Off    | N    | 19.5       | 19.3        | 46.0         |
| 1.110000        | 21.9           | Off    | N    | 19.5       | 24.1        | 46.0         |
| 9.374000        | 21.8           | Off    | N    | 19.8       | 28.2        | 50.0         |
| 24.078000       | 23.1           | Off    | N    | 20.1       | 26.9        | 50.0         |

## 3.6 Frequency Stability Measurement

### 3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

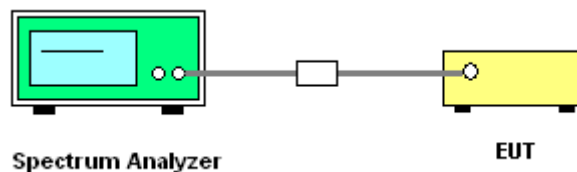
### 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.6.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

### 3.6.4 Test Setup



### 3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.



## **3.7 Automatically Discontinue Transmission**

### **3.7.1 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.

### **3.7.2 Measuring Instruments**

The measuring equipment is listed in the section 4 of this test report.

### **3.7.3 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.



## **3.8 Antenna Requirements**

### **3.8.1 Standard Applicable**

According to FCC 47 CFR Section 15.407(a)(1)(2), 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.

### **3.8.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.8.3 Antenna Gain**

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



## 4 List of Measuring Equipment

| Instrument                | Manufacturer       | Model No.                  | Serial No.                 | Characteristics    | Calibration Date | Test Date                        | Due Date      | Remark                   |
|---------------------------|--------------------|----------------------------|----------------------------|--------------------|------------------|----------------------------------|---------------|--------------------------|
| Power Meter               | Anritsu            | ML2495A                    | 1218006                    | 300MHz~40GHz       | Oct. 18, 2014    | Aug. 03, 2015~<br>Aug. 12, 2015  | Oct. 17, 2015 | Conducted<br>(TH05-HY)   |
| Power Sensor              | Anritsu            | MA2411B                    | 1207363                    | 300MHz~40GHz       | Oct. 18, 2014    | Aug. 03, 2015~<br>Aug. 12, 2015  | Oct. 17, 2015 | Conducted<br>(TH05-HY)   |
| Spectrum Analyzer         | Rohde & Schwarz    | FSP40                      | 100057                     | 9kHz~40GHz         | Oct. 17, 2014    | Aug. 03, 2015~<br>Aug. 12, 2015  | Oct. 16, 2015 | Conducted<br>(TH05-HY)   |
| Temperature Chamber       | ESPEC              | SU-241                     | 92003713                   | -30° ~ 95°         | Jun. 15, 2015    | Aug. 03, 2015~<br>Aug. 12, 2015  | Jun. 14, 2016 | Conducted<br>(TH05-HY)   |
| Hygrometer                | Testo              | 608-H1                     | 34897199                   | N/A                | May 04, 2015     | Aug. 03, 2015~<br>Aug. 12, 2015  | May 03, 2016  | Conducted<br>(TH05-HY)   |
| RF Cable                  | HARBOUR INDUSTRIES | LL142                      | Infinet<br>CA3601-3601-DLL | 0.1MHz~40GHz       | Mar. 06, 2015    | Aug. 03, 2015~<br>Aug. 12, 2015  | Mar. 05, 2016 | Conducted<br>(TH05-HY)   |
| Bilog Antenna             | Schaffner          | CBL6111C                   | 2726                       | 30MHz ~ 1GHz       | Sep. 27, 2014    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Sep. 26, 2015 | Radiation<br>(03CH07-HY) |
| Double Ridge Horn Antenna | EMCO               | 3117                       | 00066583                   | 1GHz~18GHz         | Jul. 20, 2015    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Jul. 19, 2016 | Radiation<br>(03CH07-HY) |
| Loop Antenna              | TESEQ              | HLA 6120                   | 31244                      | 9kHz~30MHz         | Feb. 02, 2015    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Feb. 01, 2016 | Radiation<br>(03CH07-HY) |
| EMI Test Receiver         | Rohde & Schwarz    | ESCI 7                     | 100724                     | 9kHz~7GHz          | Aug. 30, 2014    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Aug. 29, 2015 | Radiation<br>(03CH07-HY) |
| Horn Antenna              | SCHWARZBECK        | BBHA 9170                  | BBHA9170584                | 18GHz- 40GHz       | Nov. 03, 2014    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Nov. 02, 2015 | Radiation<br>(03CH07-HY) |
| Hygrometer                | Testo              | 608-H1                     | 34897197                   | N/A                | May 04, 2015     | Aug. 05, 2015 ~<br>Aug. 26, 2015 | May 03, 2016  | Radiation<br>(03CH07-HY) |
| Preamplifier              | MITEQ              | AMF-7D-0010<br>1800-30-10P | 1590075                    | 1GHz ~ 18GHz       | Apr. 20, 2015    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Apr. 19, 2016 | Radiation<br>(03CH07-HY) |
| Preamplifier              | COM-POWER          | PA-103A                    | 161241                     | 10MHz~1000MHz      | Mar. 12, 2015    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Mar. 11, 2016 | Radiation<br>(03CH07-HY) |
| Preamplifier              | Agilent            | 8449B                      | 3008A02362                 | 1GHz~ 26.5GHz      | Oct. 21, 2014    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Oct. 20, 2015 | Radiation<br>(03CH07-HY) |
| Signal Analyzer           | Rohde & Schwarz    | FSV 30                     | 101749                     | 10Hz~30GHz         | Mar. 10, 2015    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Mar. 09, 2016 | Radiation<br>(03CH07-HY) |
| RF Cable                  | HUBER + SUHNER     | SUCOFLEX 104               | MY84209521                 | 1GHz~40GHz         | Dec. 04, 2014    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Dec. 03, 2015 | Radiation<br>(03CH07-HY) |
| RF Cable                  | HUBER + SUHNER     | SUCOFLEX 104               | MY84209521                 | 9kHz~1GHz          | Dec. 04, 2014    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Dec. 03, 2015 | Radiation<br>(03CH07-HY) |
| Controller                | ChainTek           | Chaintek 3000              | N/A                        | Control Turn table | N/A              | Aug. 05, 2015 ~<br>Aug. 26, 2015 | N/A           | Radiation<br>(03CH07-HY) |
| Controller                | Max-Full           | MF7802                     | MF780208368                | Control Ant Mast   | N/A              | Aug. 05, 2015 ~<br>Aug. 26, 2015 | N/A           | Radiation<br>(03CH07-HY) |
| Antenna Mast              | Max-Full           | MFA520BS                   | N/A                        | 1m~4m              | N/A              | Aug. 05, 2015 ~<br>Aug. 26, 2015 | N/A           | Radiation<br>(03CH07-HY) |
| Turn Table                | ChainTek           | Chaintek 3000              | N/A                        | 0~360 degree       | N/A              | Aug. 05, 2015 ~<br>Aug. 26, 2015 | N/A           | Radiation<br>(03CH07-HY) |



| Instrument           | Manufacturer          | Model No.               | Serial No.  | Characteristics | Calibration Date | Test Date                        | Due Date      | Remark                   |
|----------------------|-----------------------|-------------------------|-------------|-----------------|------------------|----------------------------------|---------------|--------------------------|
| Preamplifier         | MITEQ                 | JS44-18004000<br>-33-8P | 1840917     | 18GHz ~ 40GHz   | Jun. 02, 2015    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Jun. 01, 2016 | Radiation<br>(03CH07-HY) |
| Test Software        | Audix                 | E3                      | 6.2009-8-24 | N/A             | N/A              | Aug. 05, 2015 ~<br>Aug. 26, 2015 | N/A           | Radiation<br>(03CH07-HY) |
| Filter               | Wainwright            | WLKS4500-8SS            | SN19        | 4.5G Low Pass   | Oct. 01, 2014    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Sep. 30, 2015 | Radiation<br>(03CH07-HY) |
| Filter               | Microwave<br>Circuits | H07G18G3                | SN8009-01   | 7GHz HPF        | Oct. 01, 2014    | Aug. 05, 2015 ~<br>Aug. 26, 2015 | Sep. 30, 2015 | Radiation<br>(03CH07-HY) |
| EMI Test<br>Receiver | Rohde &<br>Schwarz    | ESCS 30                 | 100356      | 9kHz – 2.75GHz  | Dec. 01, 2014    | Aug. 15, 2015                    | Nov. 30, 2015 | Conduction<br>(CO05-HY)  |
| Hygrometer           | Testo                 | 608-H1                  | 34913912    | N/A             | Apr. 20, 2015    | Aug. 15, 2015                    | Apr. 19, 2016 | Conduction<br>(CO05-HY)  |
| LISN                 | Rohde &<br>Schwarz    | ENV216                  | 100080      | 9kHz~30MHz      | Dec. 02, 2014    | Aug. 15, 2015                    | Dec. 01, 2015 | Conduction<br>(CO05-HY)  |
| AC Power<br>Source   | ChainTek              | APC-1000W               | N/A         | N/A             | N/A              | Aug. 15, 2015                    | N/A           | Conduction<br>(CO05-HY)  |
| LF Cable             | HUBER +<br>SUHNER     | RG-214/U                | LF01        | N/A             | Jan. 07, 2015    | Aug. 15, 2015                    | Jan. 06, 2016 | Conduction<br>(CO05-HY)  |
| Test Software        | N/A                   | EMC32                   | 8.40.0      | N/A             | N/A              | Aug. 15, 2015                    | N/A           | Conduction<br>(CO05-HY)  |



## 5 Uncertainty of Evaluation

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

|                                                                         |      |
|-------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.26 |
|-------------------------------------------------------------------------|------|

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

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.8 |
|-------------------------------------------------------------------------|-----|



## **Appendix A. Conducted Test Results**

|                |                         |                    |       |    |
|----------------|-------------------------|--------------------|-------|----|
| Test Engineer: | Tommy Lee               | Temperature:       | 21~25 | °C |
| Test Date:     | 2015/08/03 ~ 2015/08/12 | 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) |  |  |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 17.70               | 22.75                 | -                                  | 22.48                             |  |  |
| 11a    | 6Mbps     | 1   | 44  | 5220        | 17.95               | 22.65                 | -                                  | 22.54                             |  |  |
| 11a    | 6Mbps     | 1   | 48  | 5240        | 17.85               | 22.85                 | -                                  | 22.52                             |  |  |
| HT20   | MCS0      | 1   | 36  | 5180        | 18.75               | 23.00                 | -                                  | 22.73                             |  |  |
| HT20   | MCS0      | 1   | 44  | 5220        | 18.65               | 22.95                 | -                                  | 22.71                             |  |  |
| HT20   | MCS0      | 1   | 48  | 5240        | 18.70               | 23.00                 | -                                  | 22.72                             |  |  |
| HT40   | MCS0      | 1   | 38  | 5190        | 36.50               | 40.95                 | -                                  | 23.01                             |  |  |
| HT40   | MCS0      | 1   | 46  | 5230        | 36.50               | 41.31                 | -                                  | 23.01                             |  |  |
| VHT20  | MCS0      | 1   | 36  | 5180        | 18.70               | 23.05                 | -                                  | 22.72                             |  |  |
| VHT20  | MCS0      | 1   | 44  | 5220        | 18.80               | 23.00                 | -                                  | 22.74                             |  |  |
| VHT20  | MCS0      | 1   | 48  | 5240        | 18.65               | 23.00                 | -                                  | 22.71                             |  |  |
| VHT40  | MCS0      | 1   | 38  | 5190        | 36.40               | 41.40                 | -                                  | 23.01                             |  |  |
| VHT40  | MCS0      | 1   | 46  | 5230        | 36.60               | 41.31                 | -                                  | 23.01                             |  |  |
| VHT80  | MCS0      | 1   | 42  | 5210        | 75.60               | 81.76                 | -                                  | 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 |
| 11a        | 6Mbps     | 1   | 36  | 5180        | 0.09             | 12.52                         | 24.00                           | -3.22    |  | Pass      |
| 11a        | 6Mbps     | 1   | 44  | 5220        | 0.09             | 12.54                         | 24.00                           | -3.22    |  | Pass      |
| 11a        | 6Mbps     | 1   | 48  | 5240        | 0.09             | 12.51                         | 24.00                           | -3.22    |  | Pass      |
| HT20       | MCS0      | 1   | 36  | 5180        | 0.05             | 12.51                         | 24.00                           | -3.22    |  | Pass      |
| HT20       | MCS0      | 1   | 44  | 5220        | 0.05             | 12.54                         | 24.00                           | -3.22    |  | Pass      |
| HT20       | MCS0      | 1   | 48  | 5240        | 0.05             | 12.50                         | 24.00                           | -3.22    |  | Pass      |
| HT40       | MCS0      | 1   | 38  | 5190        | 0.20             | 12.36                         | 24.00                           | -3.22    |  | Pass      |
| HT40       | MCS0      | 1   | 46  | 5230        | 0.20             | 12.90                         | 24.00                           | -3.22    |  | Pass      |
| VHT20      | MCS0      | 1   | 36  | 5180        | 0.05             | 12.15                         | 24.00                           | -3.22    |  | Pass      |
| VHT20      | MCS0      | 1   | 44  | 5220        | 0.05             | 12.13                         | 24.00                           | -3.22    |  | Pass      |
| VHT20      | MCS0      | 1   | 48  | 5240        | 0.05             | 12.41                         | 24.00                           | -3.22    |  | Pass      |
| VHT40      | MCS0      | 1   | 38  | 5190        | 0.25             | 12.65                         | 24.00                           | -3.22    |  | Pass      |
| VHT40      | MCS0      | 1   | 46  | 5230        | 0.25             | 12.51                         | 24.00                           | -3.22    |  | Pass      |
| VHT80      | MCS0      | 1   | 42  | 5210        | 0.44             | 12.88                         | 24.00                           | -3.22    |  | Pass      |

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

| FCC Band I |           |                 |     |             |                  |                                 |                             |          |   |           |
|------------|-----------|-----------------|-----|-------------|------------------|---------------------------------|-----------------------------|----------|---|-----------|
| Mod.       | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) | Average Power Density (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) | - | Pass/Fail |
| 11a        | 6Mbps     | 1               | 36  | 5180        | 0.09             | 0.62                            | 11.00                       | -3.22    |   | Pass      |
| 11a        | 6Mbps     | 1               | 44  | 5220        | 0.09             | 0.72                            | 11.00                       | -3.22    |   | Pass      |
| 11a        | 6Mbps     | 1               | 48  | 5240        | 0.09             | 0.86                            | 11.00                       | -3.22    |   | Pass      |
| HT20       | MCS0      | 1               | 36  | 5180        | 0.05             | 0.33                            | 11.00                       | -3.22    |   | Pass      |
| HT20       | MCS0      | 1               | 44  | 5220        | 0.05             | 0.82                            | 11.00                       | -3.22    |   | Pass      |
| HT20       | MCS0      | 1               | 48  | 5240        | 0.05             | 0.73                            | 11.00                       | -3.22    |   | Pass      |
| HT40       | MCS0      | 1               | 38  | 5190        | 0.20             | -2.26                           | 11.00                       | -3.22    |   | Pass      |
| HT40       | MCS0      | 1               | 46  | 5230        | 0.20             | -1.85                           | 11.00                       | -3.22    |   | Pass      |
| VHT20      | MCS0      | 1               | 36  | 5180        | 0.05             | 0.88                            | 11.00                       | -3.22    |   | Pass      |
| VHT20      | MCS0      | 1               | 44  | 5220        | 0.05             | 1.12                            | 11.00                       | -3.22    |   | Pass      |
| VHT20      | MCS0      | 1               | 48  | 5240        | 0.05             | 1.30                            | 11.00                       | -3.22    |   | Pass      |
| VHT40      | MCS0      | 1               | 38  | 5190        | 0.25             | -1.55                           | 11.00                       | -3.22    |   | Pass      |
| VHT40      | MCS0      | 1               | 46  | 5230        | 0.25             | -1.27                           | 11.00                       | -3.22    |   | Pass      |
| VHT80      | MCS0      | 1               | 42  | 5210        | 0.44             | -4.10                           | 11.00                       | -3.22    |   | Pass      |

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

| Band II |           |                 |     |             |                     |                       |                                    |                                   |                                      |      |
|---------|-----------|-----------------|-----|-------------|---------------------|-----------------------|------------------------------------|-----------------------------------|--------------------------------------|------|
| Mod.    | Data Rate | N <sub>Tx</sub> | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | 26 dB Bandwidth (MHz) | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) | FCC 26dB Bandwidth Power Limit (dBm) | Note |
| 11a     | 6M bps    | 1               | 52  | 5260        | 17.9                | 22.75                 | 23.53                              | 29.53                             | 23.98                                |      |
| 11a     | 6M bps    | 1               | 60  | 5300        | 17.8                | 22.8                  | 23.50                              | 29.50                             | 23.98                                |      |
| 11a     | 6M bps    | 1               | 64  | 5320        | 17.85               | 22.85                 | 23.52                              | 29.52                             | 23.98                                |      |
| HT20    | MCS 0     | 1               | 52  | 5260        | 18.75               | 23.1                  | 23.73                              | 29.73                             | 23.98                                |      |
| HT20    | MCS 0     | 1               | 60  | 5300        | 18.75               | 22.9                  | 23.73                              | 29.73                             | 23.98                                |      |
| HT20    | MCS 0     | 1               | 64  | 5320        | 18.75               | 22.9                  | 23.73                              | 29.73                             | 23.98                                |      |
| HT40    | MCS 0     | 1               | 54  | 5270        | 36.5                | 41.31                 | 23.98                              | 30.00                             | 23.98                                |      |
| HT40    | MCS 0     | 1               | 62  | 5310        | 36.6                | 41.4                  | 23.98                              | 30.00                             | 23.98                                |      |
| VHT20   | MCS 0     | 1               | 52  | 5260        | 18.65               | 23                    | 23.71                              | 29.71                             | 23.98                                |      |
| VHT20   | MCS 0     | 1               | 60  | 5300        | 18.7                | 23                    | 23.72                              | 29.72                             | 23.98                                |      |
| VHT20   | MCS 0     | 1               | 64  | 5320        | 18.85               | 23                    | 23.75                              | 29.75                             | 23.98                                |      |
| VHT40   | MCS 0     | 1               | 54  | 5270        | 36.5                | 41.31                 | 23.98                              | 30.00                             | 23.98                                |      |
| VHT40   | MCS 0     | 1               | 62  | 5310        | 36.6                | 41.13                 | 23.98                              | 30.00                             | 23.98                                |      |
| VHT80   | MCS 0     | 1               | 58  | 5290        | 75.6                | 82.08                 | 23.98                              | 30.00                             | 23.98                                |      |

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

| FCC Band II |           |                 |     |             |                  |                               |                                 |          |  |           |
|-------------|-----------|-----------------|-----|-------------|------------------|-------------------------------|---------------------------------|----------|--|-----------|
| Mod.        | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) |  | Pass/Fail |
| 11a         | 6M bps    | 1               | 52  | 5260        | 0.09             | 12.51                         | 23.98                           | -3.22    |  | Pass      |
| 11a         | 6M bps    | 1               | 60  | 5300        | 0.09             | 12.50                         | 23.98                           | -3.22    |  | Pass      |
| 11a         | 6M bps    | 1               | 64  | 5320        | 0.09             | 12.52                         | 23.98                           | -3.22    |  | Pass      |
| HT20        | MCS 0     | 1               | 52  | 5260        | 0.05             | 12.52                         | 23.98                           | -3.22    |  | Pass      |
| HT20        | MCS 0     | 1               | 60  | 5300        | 0.05             | 12.50                         | 23.98                           | -3.22    |  | Pass      |
| HT20        | MCS 0     | 1               | 64  | 5320        | 0.05             | 12.53                         | 23.98                           | -3.22    |  | Pass      |
| HT40        | MCS 0     | 1               | 54  | 5270        | 0.20             | 12.47                         | 23.98                           | -3.22    |  | Pass      |
| HT40        | MCS 0     | 1               | 62  | 5310        | 0.20             | 12.20                         | 23.98                           | -3.22    |  | Pass      |
| VHT20       | MCS 0     | 1               | 52  | 5260        | 0.05             | 12.19                         | 23.98                           | -3.22    |  | Pass      |
| VHT20       | MCS 0     | 1               | 60  | 5300        | 0.05             | 12.09                         | 23.98                           | -3.22    |  | Pass      |
| VHT20       | MCS 0     | 1               | 64  | 5320        | 0.05             | 12.12                         | 23.98                           | -3.22    |  | Pass      |
| VHT40       | MCS 0     | 1               | 54  | 5270        | 0.25             | 12.66                         | 23.98                           | -3.22    |  | Pass      |
| VHT40       | MCS 0     | 1               | 62  | 5310        | 0.25             | 12.40                         | 23.98                           | -3.22    |  | Pass      |
| VHT80       | MCS 0     | 1               | 58  | 5290        | 0.44             | 12.60                         | 23.98                           | -3.22    |  | Pass      |

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

| Band II |           |                 |     |             |                  |                                 |                             |          |  |           |
|---------|-----------|-----------------|-----|-------------|------------------|---------------------------------|-----------------------------|----------|--|-----------|
| Mod.    | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) | Average Power Density (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) |  | Pass/Fail |
| 11a     | 6M bps    | 1               | 52  | 5260        | 0.09             | 1.13                            | 11.00                       | -3.22    |  | Pass      |
| 11a     | 6M bps    | 1               | 60  | 5300        | 0.09             | 1.10                            | 11.00                       | -3.22    |  | Pass      |
| 11a     | 6M bps    | 1               | 64  | 5320        | 0.09             | 1.06                            | 11.00                       | -3.22    |  | Pass      |
| HT20    | MCS 0     | 1               | 52  | 5260        | 0.05             | 0.91                            | 11.00                       | -3.22    |  | Pass      |
| HT20    | MCS 0     | 1               | 60  | 5300        | 0.05             | 0.68                            | 11.00                       | -3.22    |  | Pass      |
| HT20    | MCS 0     | 1               | 64  | 5320        | 0.05             | 0.86                            | 11.00                       | -3.22    |  | Pass      |
| HT40    | MCS 0     | 1               | 54  | 5270        | 0.20             | -2.14                           | 11.00                       | -3.22    |  | Pass      |
| HT40    | MCS 0     | 1               | 62  | 5310        | 0.20             | -1.93                           | 11.00                       | -3.22    |  | Pass      |
| VHT20   | MCS 0     | 1               | 52  | 5260        | 0.05             | 1.39                            | 11.00                       | -3.22    |  | Pass      |
| VHT20   | MCS 0     | 1               | 60  | 5300        | 0.05             | 1.04                            | 11.00                       | -3.22    |  | Pass      |
| VHT20   | MCS 0     | 1               | 64  | 5320        | 0.05             | 1.39                            | 11.00                       | -3.22    |  | Pass      |
| VHT40   | MCS 0     | 1               | 54  | 5270        | 0.25             | -1.24                           | 11.00                       | -3.22    |  | Pass      |
| VHT40   | MCS 0     | 1               | 62  | 5310        | 0.25             | -1.37                           | 11.00                       | -3.22    |  | Pass      |
| VHT80   | MCS 0     | 1               | 58  | 5290        | 0.44             | -4.02                           | 11.00                       | -3.22    |  | Pass      |

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

| Band III |           |                 |     |             |                     |                       |                                    |                                   |                                      |      |
|----------|-----------|-----------------|-----|-------------|---------------------|-----------------------|------------------------------------|-----------------------------------|--------------------------------------|------|
| Mod.     | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | 26 dB Bandwidth (MHz) | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) | FCC 26dB Bandwidth Power Limit (dBm) | Note |
| 11a      | 6M bps    | 1               | 100 | 5500        | 17.95               | 22.9                  | 23.54                              | 29.54                             | 23.98                                |      |
| 11a      | 6M bps    | 1               | 116 | 5580        | 18                  | 22.75                 | 23.55                              | 29.55                             | 23.98                                |      |
| 11a      | 6M bps    | 1               | 140 | 5700        | 17.8                | 22.9                  | 23.50                              | 29.50                             | 23.98                                |      |
| HT20     | MCS 0     | 1               | 100 | 5500        | 18.7                | 23.1                  | 23.72                              | 29.72                             | 23.98                                |      |
| HT20     | MCS 0     | 1               | 116 | 5580        | 18.65               | 23.25                 | 23.71                              | 29.71                             | 23.98                                |      |
| HT20     | MCS 0     | 1               | 140 | 5700        | 18.8                | 23.4                  | 23.74                              | 29.74                             | 23.98                                |      |
| HT40     | MCS 0     | 1               | 102 | 5510        | 36.5                | 41.31                 | 23.98                              | 30.00                             | 23.98                                |      |
| HT40     | MCS 0     | 1               | 110 | 5550        | 36.5                | 41.49                 | 23.98                              | 30.00                             | 23.98                                |      |
| HT40     | MCS 0     | 1               | 134 | 5670        | 36.5                | 41.4                  | 23.98                              | 30.00                             | 23.98                                |      |
| VHT20    | MCS 0     | 1               | 100 | 5500        | 18.85               | 23.25                 | 23.75                              | 29.75                             | 23.98                                |      |
| VHT20    | MCS 0     | 1               | 116 | 5580        | 18.8                | 23.15                 | 23.74                              | 29.74                             | 23.98                                |      |
| VHT20    | MCS 0     | 1               | 140 | 5700        | 18.95               | 23                    | 23.78                              | 29.78                             | 23.98                                |      |
| VHT40    | MCS 0     | 1               | 102 | 5510        | 36.5                | 41.31                 | 23.98                              | 30.00                             | 23.98                                |      |
| VHT40    | MCS 0     | 1               | 110 | 5550        | 36.6                | 41.31                 | 23.98                              | 30.00                             | 23.98                                |      |
| VHT40    | MCS 0     | 1               | 134 | 5670        | 36.6                | 41.13                 | 23.98                              | 30.00                             | 23.98                                |      |
| VHT80    | MCS 0     | 1               | 106 | 5530        | 75.72               | 82.08                 | 23.98                              | 30.00                             | 23.98                                |      |
| VHT80    | MCS 0     | 1               | 122 | 5610        | 75.72               | 82.56                 | 23.98                              | 30.00                             | 23.98                                |      |

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

| FCC Band III |           |                 |     |             |                  |                               |                                 |          |  |           |
|--------------|-----------|-----------------|-----|-------------|------------------|-------------------------------|---------------------------------|----------|--|-----------|
| Mod.         | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) |  | Pass/Fail |
| 11a          | 6M bps    | 1               | 100 | 5500        | 0.09             | 12.55                         | 23.98                           | -2.85    |  | Pass      |
| 11a          | 6M bps    | 1               | 116 | 5580        | 0.09             | 12.54                         | 23.98                           | -2.85    |  | Pass      |
| 11a          | 6M bps    | 1               | 140 | 5700        | 0.09             | 12.66                         | 23.98                           | -2.85    |  | Pass      |
| HT20         | MCS 0     | 1               | 100 | 5500        | 0.05             | 12.60                         | 23.98                           | -2.85    |  | Pass      |
| HT20         | MCS 0     | 1               | 116 | 5580        | 0.05             | 12.51                         | 23.98                           | -2.85    |  | Pass      |
| HT20         | MCS 0     | 1               | 140 | 5700        | 0.05             | 12.67                         | 23.98                           | -2.85    |  | Pass      |
| HT40         | MCS 0     | 1               | 102 | 5510        | 0.20             | 12.66                         | 23.98                           | -2.85    |  | Pass      |
| HT40         | MCS 0     | 1               | 110 | 5550        | 0.20             | 12.30                         | 23.98                           | -2.85    |  | Pass      |
| HT40         | MCS 0     | 1               | 134 | 5670        | 0.20             | 12.90                         | 23.98                           | -2.85    |  | Pass      |
| VHT20        | MCS 0     | 1               | 100 | 5500        | 0.05             | 12.34                         | 23.98                           | -2.85    |  | Pass      |
| VHT20        | MCS 0     | 1               | 116 | 5580        | 0.05             | 12.30                         | 23.98                           | -2.85    |  | Pass      |
| VHT20        | MCS 0     | 1               | 140 | 5700        | 0.05             | 12.76                         | 23.98                           | -2.85    |  | Pass      |
| VHT40        | MCS 0     | 1               | 102 | 5510        | 0.25             | 12.68                         | 23.98                           | -2.85    |  | Pass      |
| VHT40        | MCS 0     | 1               | 110 | 5550        | 0.25             | 12.33                         | 23.98                           | -2.85    |  | Pass      |
| VHT40        | MCS 0     | 1               | 134 | 5670        | 0.25             | 12.85                         | 23.98                           | -2.85    |  | Pass      |
| VHT80        | MCS 0     | 1               | 106 | 5530        | 0.44             | 12.89                         | 23.98                           | -2.85    |  | Pass      |
| VHT80        | MCS 0     | 1               | 122 | 5610        | 0.44             | 12.69                         | 23.98                           | -2.85    |  | Pass      |

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

| Band III |           |                 |     |             |                  |                                 |                             |          |  |           |
|----------|-----------|-----------------|-----|-------------|------------------|---------------------------------|-----------------------------|----------|--|-----------|
| Mod.     | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) | Average Power Density (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) |  | Pass/Fail |
| 11a      | 6M bps    | 1               | 100 | 5500        | 0.09             | 2.12                            | 11.00                       | -2.85    |  | Pass      |
| 11a      | 6M bps    | 1               | 116 | 5580        | 0.09             | 2.07                            | 11.00                       | -2.85    |  | Pass      |
| 11a      | 6M bps    | 1               | 140 | 5700        | 0.09             | 0.59                            | 11.00                       | -2.85    |  | Pass      |
| HT20     | MCS 0     | 1               | 100 | 5500        | 0.05             | 1.93                            | 11.00                       | -2.85    |  | Pass      |
| HT20     | MCS 0     | 1               | 116 | 5580        | 0.05             | 1.89                            | 11.00                       | -2.85    |  | Pass      |
| HT20     | MCS 0     | 1               | 140 | 5700        | 0.05             | 0.21                            | 11.00                       | -2.85    |  | Pass      |
| HT40     | MCS 0     | 1               | 102 | 5510        | 0.20             | -1.08                           | 11.00                       | -2.85    |  | Pass      |
| HT40     | MCS 0     | 1               | 110 | 5550        | 0.20             | -1.04                           | 11.00                       | -2.85    |  | Pass      |
| HT40     | MCS 0     | 1               | 134 | 5670        | 0.20             | -2.55                           | 11.00                       | -2.85    |  | Pass      |
| VHT20    | MCS 0     | 1               | 100 | 5500        | 0.05             | 2.31                            | 11.00                       | -2.85    |  | Pass      |
| VHT20    | MCS 0     | 1               | 116 | 5580        | 0.05             | 2.57                            | 11.00                       | -2.85    |  | Pass      |
| VHT20    | MCS 0     | 1               | 140 | 5700        | 0.05             | 0.89                            | 11.00                       | -2.85    |  | Pass      |
| VHT40    | MCS 0     | 1               | 102 | 5510        | 0.25             | -0.18                           | 11.00                       | -2.85    |  | Pass      |
| VHT40    | MCS 0     | 1               | 110 | 5550        | 0.25             | -0.24                           | 11.00                       | -2.85    |  | Pass      |
| VHT40    | MCS 0     | 1               | 134 | 5670        | 0.25             | -1.70                           | 11.00                       | -2.85    |  | Pass      |
| VHT80    | MCS 0     | 1               | 106 | 5530        | 0.44             | -2.81                           | 11.00                       | -2.85    |  | Pass      |
| VHT80    | MCS 0     | 1               | 122 | 5610        | 0.44             | -3.39                           | 11.00                       | -2.85    |  | Pass      |

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

| Straddle Channel |           |     |     |             |                     |                       |                                    |                                   |                                      |      |
|------------------|-----------|-----|-----|-------------|---------------------|-----------------------|------------------------------------|-----------------------------------|--------------------------------------|------|
| 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 |
| 11a              | 6Mbps     | 1   | 144 | 5720        | 17.85               | 22.95                 | -                                  | -                                 | -                                    |      |
|                  |           |     |     | NII-2C      | 14                  | 16.5                  | 22.46                              | 28.46                             | 23.17                                |      |
|                  |           |     |     | NII-3       | 3.85                | 6.45                  | 30.00                              | 36.00                             | 30.00                                |      |
| HT20             | MCS0      | 1   | 144 | 5720        | 18.85               | 23.20                 | -                                  | -                                 | -                                    |      |
|                  |           |     |     | NII-2C      | 14.45               | 16.7                  | 22.60                              | 28.60                             | 23.23                                |      |
|                  |           |     |     | NII-3       | 4.4                 | 6.5                   | 30.00                              | 36.00                             | 30.00                                |      |
| HT40             | MCS0      | 1   | 142 | 5710        | 36.50               | 41.04                 | -                                  | -                                 | -                                    |      |
|                  |           |     |     | NII-2C      | 33.3                | 35.61                 | 23.98                              | 30.00                             | 23.98                                |      |
|                  |           |     |     | NII-3       | 3.2                 | 5.43                  | 30.00                              | 36.00                             | 30.00                                |      |
| VHT20            | MCS0      | 1   | 144 | 5720        | 18.80               | 23.20                 | -                                  | -                                 | -                                    |      |
|                  |           |     |     | NII-2C      | 14.45               | 16.65                 | 22.60                              | 28.60                             | 23.21                                |      |
|                  |           |     |     | NII-3       | 4.35                | 6.55                  | 30.00                              | 36.00                             | 30.00                                |      |
| VHT40            | MCS0      | 1   | 142 | 5710        | 36.60               | 41.31                 | -                                  | -                                 | -                                    |      |
|                  |           |     |     | NII-2C      | 33.3                | 35.7                  | 23.98                              | 30.00                             | 23.98                                |      |
|                  |           |     |     | NII-3       | 3.3                 | 5.61                  | 30.00                              | 36.00                             | 30.00                                |      |
| VHT80            | MCS0      | 1   | 138 | 5690        | 75.84               | 82.08                 | -                                  | -                                 | -                                    |      |
|                  |           |     |     | NII-2C      | 72.92               | 75.96                 | 23.98                              | 30.00                             | 23.98                                |      |
|                  |           |     |     | NII-3       | 2.92                | 6.12                  | 30.00                              | 36.00                             | 30.00                                |      |

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

| FCC Straddle Channel |           |     |     |             |                  |                               |                                 |          |  |           |
|----------------------|-----------|-----|-----|-------------|------------------|-------------------------------|---------------------------------|----------|--|-----------|
| Mod.                 | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) |  | Pass/Fail |
| 11a                  | 6Mbps     | 1   | 144 | 5720        | 0.09             | 12.65                         | -                               | -2.85    |  | Pass      |
|                      |           |     |     | NII-2C      | 0.09             | 11.90                         | 23.17                           | -2.85    |  | Pass      |
|                      |           |     |     | NII-3       | 0.09             | 4.63                          | 30.00                           | -2.85    |  | Pass      |
| HT20                 | MCS0      | 1   | 144 | 5720        | 0.05             | 12.66                         | -                               | -2.85    |  | Pass      |
|                      |           |     |     | NII-2C      | 0.05             | 11.82                         | 23.23                           | -2.85    |  | Pass      |
|                      |           |     |     | NII-3       | 0.05             | 5.10                          | 30.00                           | -2.85    |  | Pass      |
| HT40                 | MCS0      | 1   | 142 | 5710        | 0.20             | 12.89                         | -                               | -2.85    |  | Pass      |
|                      |           |     |     | NII-2C      | 0.20             | 12.58                         | 23.98                           | -2.85    |  | Pass      |
|                      |           |     |     | NII-3       | 0.20             | 1.29                          | 30.00                           | -2.85    |  | Pass      |
| VHT20                | MCS0      | 1   | 144 | 5720        | 0.05             | 12.72                         | -                               | -2.85    |  | Pass      |
|                      |           |     |     | NII-2C      | 0.05             | 11.89                         | 23.21                           | -2.85    |  | Pass      |
|                      |           |     |     | NII-3       | 0.05             | 5.12                          | 30.00                           | -2.85    |  | Pass      |
| VHT40                | MCS0      | 1   | 142 | 5710        | 0.25             | 12.83                         | -                               | -2.85    |  | Pass      |
|                      |           |     |     | NII-2C      | 0.25             | 12.52                         | 23.98                           | -2.85    |  | Pass      |
|                      |           |     |     | NII-3       | 0.25             | 1.26                          | 30.00                           | -2.85    |  | Pass      |
| VHT80                | MCS0      | 1   | 138 | 5690        | 0.44             | 12.66                         | -                               | -2.85    |  | Pass      |
|                      |           |     |     | NII-2C      | 0.44             | 12.55                         | 23.98                           | -2.85    |  | Pass      |
|                      |           |     |     | NII-3       | 0.44             | -3.34                         | 30.00                           | -2.85    |  | Pass      |

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

| Straddle Channel |           |                 |     |             |                  |                                 |                             |          |  |           |
|------------------|-----------|-----------------|-----|-------------|------------------|---------------------------------|-----------------------------|----------|--|-----------|
| Mod.             | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Duty Factor (dB) | Average Power Density (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) |  | Pass/Fail |
| 11a              | 6Mbps     | 1               | 144 | NII-2C      | 0.09             | 1.45                            | 11.00                       | -2.85    |  | Pass      |
|                  |           |                 |     | NII-3       | 0.09             | 1.45                            | 30.00                       | -2.85    |  | Pass      |
| HT20             | MCS0      | 1               | 144 | NII-2C      | 0.05             | 1.15                            | 11.00                       | -2.85    |  | Pass      |
|                  |           |                 |     | NII-3       | 0.05             | 1.15                            | 30.00                       | -2.85    |  | Pass      |
| HT40             | MCS0      | 1               | 142 | NII-2C      | 0.20             | -1.50                           | 11.00                       | -2.85    |  | Pass      |
|                  |           |                 |     | NII-3       | 0.20             | -1.50                           | 30.00                       | -2.85    |  | Pass      |
| VHT20            | MCS0      | 1               | 144 | NII-2C      | 0.05             | 1.21                            | 11.00                       | -2.85    |  | Pass      |
|                  |           |                 |     | NII-3       | 0.05             | 1.21                            | 30.00                       | -2.85    |  | Pass      |
| VHT40            | MCS0      | 1               | 142 | NII-2C      | 0.25             | -1.69                           | 11.00                       | -2.85    |  | Pass      |
|                  |           |                 |     | NII-3       | 0.25             | -1.69                           | 30.00                       | -2.85    |  | Pass      |
| VHT80            | MCS0      | 1               | 138 | NII-2C      | 0.44             | -4.64                           | 11.00                       | -2.85    |  | Pass      |
|                  |           |                 |     | NII-3       | 0.44             | -4.64                           | 30.00                       | -2.85    |  | Pass      |

**TEST RESULTS DATA**  
**Frequency Stability**

| Band I |           |     |     |             |                        |                           |                           |                  |             |      |
|--------|-----------|-----|-----|-------------|------------------------|---------------------------|---------------------------|------------------|-------------|------|
| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stability (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 20               | 3.6         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 20               | 4.2         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 20               | 3.8         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | -10              | 3.8         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 55               | 3.8         |      |

| Band II |           |     |     |             |                        |                           |                           |                  |             |      |
|---------|-----------|-----|-----|-------------|------------------------|---------------------------|---------------------------|------------------|-------------|------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stability (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | 20               | 3.6         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | 20               | 4.2         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | 20               | 3.8         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.100               | 0.100                     | 18.80                     | -10              | 3.8         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | 55               | 3.8         |      |

| Band III |           |     |     |             |                        |                           |                           |                  |             |      |
|----------|-----------|-----|-----|-------------|------------------------|---------------------------|---------------------------|------------------|-------------|------|
| Mod.     | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stability (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.000               | 0.000                     | 0.00                      | 20               | 3.6         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.000               | 0.000                     | 0.00                      | 20               | 4.2         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.000               | 0.000                     | 0.00                      | 20               | 3.8         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.050               | 0.050                     | 9.09                      | -10              | 3.8         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.000               | 0.000                     | 0.00                      | 55               | 3.8         |      |



## Appendix B. Radiated Spurious Emission

|                 |                                 |                     |         |
|-----------------|---------------------------------|---------------------|---------|
| Test Engineer : | Wei Chen, Ken Wu and James Chiu | Temperature :       | 21~23°C |
|                 |                                 | Relative Humidity : | 60~63%  |

### 15E Band 1 5150~5250MHz

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

| WIFI                        | Note | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | 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 36<br>5180MHz |      | 5149.55   | 65.45      | -8.55  | 74         | 51.78  | 34.61    | 11.55  | 32.49  | 249    | 353     | P     | H     |
|                             |      | 5150      | 45.3       | -8.7   | 54         | 31.63  | 34.61    | 11.55  | 32.49  | 249    | 353     | A     | H     |
|                             | *    | 5180      | 107.53     | -      | -          | 93.84  | 34.66    | 11.55  | 32.52  | 249    | 353     | P     | H     |
|                             | *    | 5180      | 96.9       | -      | -          | 83.21  | 34.66    | 11.55  | 32.52  | 249    | 353     | A     | H     |
|                             |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                             |      | 5145.65   | 58.09      | -15.91 | 74         | 44.42  | 34.61    | 11.55  | 32.49  | 108    | 114     | P     | V     |
|                             |      | 5149.4    | 43.4       | -10.6  | 54         | 29.73  | 34.61    | 11.55  | 32.49  | 108    | 114     | A     | V     |
|                             | *    | 5180      | 101.01     | -      | -          | 87.32  | 34.66    | 11.55  | 32.52  | 108    | 114     | P     | V     |
|                             | *    | 5180      | 90.38      | -      | -          | 76.69  | 34.66    | 11.55  | 32.52  | 108    | 114     | A     | V     |
|                             |      |           |            |        |            |        |          |        |        |        |         |       | V     |
|                             |      |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11a<br>CH 44<br>5220MHz |      | 5113.85   | 57.49      | -16.51 | 74         | 43.85  | 34.56    | 11.5   | 32.42  | 233    | 354     | P     | H     |
|                             |      | 5150      | 43.31      | -10.69 | 54         | 29.64  | 34.61    | 11.55  | 32.49  | 233    | 354     | A     | H     |
|                             | *    | 5220      | 108.25     | -      | -          | 94.51  | 34.7     | 11.59  | 32.55  | 233    | 354     | P     | H     |
|                             | *    | 5220      | 97.63      | -      | -          | 83.89  | 34.7     | 11.59  | 32.55  | 233    | 354     | A     | H     |
|                             |      | 5424.47   | 57.08      | -16.92 | 74         | 43.78  | 34.98    | 11.8   | 33.48  | 233    | 354     | P     | H     |
|                             |      | 5405.99   | 43.3       | -10.7  | 54         | 29.99  | 34.96    | 11.74  | 33.39  | 233    | 354     | A     | H     |
|                             |      | 5082.05   | 57.23      | -16.77 | 74         | 43.64  | 34.52    | 11.46  | 32.39  | 379    | 44      | P     | V     |
|                             |      | 5149.25   | 42.92      | -11.08 | 54         | 29.25  | 34.61    | 11.55  | 32.49  | 379    | 44      | A     | V     |
|                             | *    | 5220      | 102.96     | -      | -          | 89.22  | 34.7     | 11.59  | 32.55  | 379    | 44      | P     | V     |
|                             | *    | 5220      | 92.57      | -      | -          | 78.83  | 34.7     | 11.59  | 32.55  | 379    | 44      | A     | V     |
|                             |      | 5351.32   | 56.72      | -17.28 | 74         | 43.3   | 34.89    | 11.71  | 33.18  | 379    | 44      | P     | V     |
|                             |      | 5390.15   | 43.16      | -10.84 | 54         | 29.76  | 34.94    | 11.74  | 33.28  | 379    | 44      | A     | V     |



|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 48<br/>5240MHz</b> | *                                                                                           | 5240    | 108.23 | -      | -  | 94.53 | 34.73 | 11.62 | 32.65 | 206 | 354 | P | H |
|                                      | *                                                                                           | 5240    | 97.46  | -      | -  | 83.76 | 34.73 | 11.62 | 32.65 | 206 | 354 | A | H |
|                                      |                                                                                             | 5390.81 | 56.83  | -17.17 | 74 | 43.43 | 34.94 | 11.74 | 33.28 | 206 | 354 | P | H |
|                                      |                                                                                             | 5397.3  | 43.19  | -10.81 | 54 | 29.77 | 34.96 | 11.74 | 33.28 | 206 | 354 | A | H |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                      | *                                                                                           | 5240    | 102.25 | -      | -  | 88.55 | 34.73 | 11.62 | 32.65 | 376 | 43  | P | V |
|                                      | *                                                                                           | 5240    | 91.75  | -      | -  | 78.05 | 34.73 | 11.62 | 32.65 | 376 | 43  | A | V |
|                                      |                                                                                             | 5405.99 | 57.44  | -16.56 | 74 | 44.13 | 34.96 | 11.74 | 33.39 | 376 | 43  | P | V |
|                                      |                                                                                             | 5395.1  | 43.17  | -10.83 | 54 | 29.75 | 34.96 | 11.74 | 33.28 | 376 | 43  | A | V |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## 15E Band 1 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI                        | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 36<br>5180MHz |                                                                                             | 10360     | 42.06      | -31.94 | 74         | 48.41    | 37.22    | 16.34  | 59.91  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15540     | 47.16      | -26.84 | 74         | 44.34    | 40.34    | 20.36  | 57.88  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10360     | 41.37      | -32.63 | 74         | 47.72    | 37.22    | 16.34  | 59.91  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15540     | 47.74      | -26.26 | 74         | 44.92    | 40.34    | 20.36  | 57.88  | 100    | 0       | P       | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 44<br>5220MHz |                                                                                             | 10440     | 41.82      | -32.18 | 74         | 48       | 37.26    | 16.41  | 59.85  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15660     | 46.66      | -27.34 | 74         | 43.57    | 40.49    | 20.41  | 57.81  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10440     | 41.26      | -32.74 | 74         | 47.44    | 37.26    | 16.41  | 59.85  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15660     | 46.42      | -27.58 | 74         | 43.33    | 40.49    | 20.41  | 57.81  | 100    | 0       | P       | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 48<br>5240MHz |                                                                                             | 10480     | 42.72      | -31.28 | 74         | 48.79    | 37.29    | 16.45  | 59.81  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15720     | 48.21      | -25.79 | 74         | 44.96    | 40.57    | 20.45  | 57.77  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10480     | 42         | -32    | 74         | 48.07    | 37.29    | 16.45  | 59.81  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15720     | 48.04      | -25.96 | 74         | 44.79    | 40.57    | 20.45  | 57.77  | 100    | 0       | P       | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 1 5150~5250MHz

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

| WIFI                                | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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>HT20<br>CH 36<br>5180MHz |      | 5150      | 65.04      | -8.96  | 74         | 51.37    | 34.61    | 11.55  | 32.49  | 222    | 352     | P       | H       |
|                                     |      | 5150      | 46         | -8     | 54         | 32.33    | 34.61    | 11.55  | 32.49  | 222    | 352     | A       | H       |
|                                     | *    | 5180      | 109.58     | -      | -          | 95.89    | 34.66    | 11.55  | 32.52  | 222    | 352     | P       | H       |
|                                     | *    | 5180      | 97.59      | -      | -          | 83.9     | 34.66    | 11.55  | 32.52  | 222    | 352     | A       | H       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |      | 5145.35   | 61.46      | -12.54 | 74         | 47.79    | 34.61    | 11.55  | 32.49  | 102    | 100     | P       | V       |
|                                     |      | 5149.85   | 43.97      | -10.03 | 54         | 30.3     | 34.61    | 11.55  | 32.49  | 102    | 100     | A       | V       |
|                                     | *    | 5180      | 103.62     | -      | -          | 89.93    | 34.66    | 11.55  | 32.52  | 102    | 100     | P       | V       |
|                                     | *    | 5180      | 91.72      | -      | -          | 78.03    | 34.66    | 11.55  | 32.52  | 102    | 100     | A       | V       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5143.1    | 57.29      | -16.71 | 74         | 43.58    | 34.61    | 11.55  | 32.45  | 205    | 352     | P       | H       |
|                                     |      | 5149.55   | 43.37      | -10.63 | 54         | 29.7     | 34.61    | 11.55  | 32.49  | 205    | 352     | A       | H       |
|                                     | *    | 5220      | 109.86     | -      | -          | 96.12    | 34.7     | 11.59  | 32.55  | 205    | 352     | P       | H       |
|                                     | *    | 5220      | 97.05      | -      | -          | 83.31    | 34.7     | 11.59  | 32.55  | 205    | 352     | A       | H       |
|                                     |      | 5353.74   | 57.41      | -16.59 | 74         | 43.99    | 34.89    | 11.71  | 33.18  | 205    | 352     | P       | H       |
|                                     |      | 5405.55   | 43.31      | -10.69 | 54         | 30       | 34.96    | 11.74  | 33.39  | 205    | 352     | A       | H       |
|                                     |      | 5001.2    | 56.76      | -17.24 | 74         | 43.28    | 34.4     | 11.37  | 32.29  | 122    | 100     | P       | V       |
|                                     |      | 5149.1    | 42.95      | -11.05 | 54         | 29.28    | 34.61    | 11.55  | 32.49  | 122    | 100     | A       | V       |
|                                     | *    | 5220      | 103.12     | -      | -          | 89.38    | 34.7     | 11.59  | 32.55  | 122    | 100     | P       | V       |
|                                     | *    | 5220      | 90.43      | -      | -          | 76.69    | 34.7     | 11.59  | 32.55  | 122    | 100     | A       | V       |
|                                     |      | 5409.84   | 56.75      | -17.25 | 74         | 43.44    | 34.96    | 11.74  | 33.39  | 122    | 100     | P       | V       |
|                                     |      | 5383      | 43.11      | -10.89 | 54         | 29.71    | 34.94    | 11.74  | 33.28  | 122    | 100     | A       | V       |



|                                                                 |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5110.85 | 56.77  | -17.23 | 74 | 43.13 | 34.56 | 11.5  | 32.42 | 226 | 356 | P | H |
|                                                                 |                                                                                             | 5149.4  | 42.97  | -11.03 | 54 | 29.3  | 34.61 | 11.55 | 32.49 | 226 | 356 | A | H |
|                                                                 | *                                                                                           | 5240    | 110.46 | -      | -  | 96.76 | 34.73 | 11.62 | 32.65 | 226 | 356 | P | H |
|                                                                 | *                                                                                           | 5240    | 97.27  | -      | -  | 83.57 | 34.73 | 11.62 | 32.65 | 226 | 356 | A | H |
|                                                                 |                                                                                             | 5381.24 | 56.99  | -17.01 | 74 | 43.59 | 34.94 | 11.74 | 33.28 | 226 | 356 | P | H |
|                                                                 |                                                                                             | 5382.78 | 43.03  | -10.97 | 54 | 29.63 | 34.94 | 11.74 | 33.28 | 226 | 356 | A | H |
|                                                                 |                                                                                             | 5148.35 | 56.83  | -17.17 | 74 | 43.16 | 34.61 | 11.55 | 32.49 | 233 | 7   | P | V |
|                                                                 |                                                                                             | 5150    | 42.75  | -11.25 | 54 | 29.08 | 34.61 | 11.55 | 32.49 | 233 | 7   | A | V |
|                                                                 | *                                                                                           | 5240    | 104.3  | -      | -  | 90.6  | 34.73 | 11.62 | 32.65 | 233 | 7   | P | V |
|                                                                 | *                                                                                           | 5240    | 92.26  | -      | -  | 78.56 | 34.73 | 11.62 | 32.65 | 233 | 7   | A | V |
|                                                                 |                                                                                             | 5406.21 | 56.56  | -17.44 | 74 | 43.25 | 34.96 | 11.74 | 33.39 | 233 | 7   | P | V |
|                                                                 |                                                                                             | 5394.22 | 43.01  | -10.99 | 54 | 29.61 | 34.94 | 11.74 | 33.28 | 233 | 7   | A | V |
| <b>Remark</b>                                                   | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## 15E Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | 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>HT20<br>CH 36<br>5180MHz |                                                                                             | 10360     | 42.25      | -31.75 | 74         | 48.6   | 37.22    | 16.34  | 59.91  | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15540     | 48.14      | -25.86 | 74         | 45.32  | 40.34    | 20.36  | 57.88  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10360     | 41.1       | -32.9  | 74         | 47.45  | 37.22    | 16.34  | 59.91  | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15540     | 48.1       | -25.9  | 74         | 45.28  | 40.34    | 20.36  | 57.88  | 100    | 0       | P     | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |                                                                                             | 10440     | 42.15      | -31.85 | 74         | 48.33  | 37.26    | 16.41  | 59.85  | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15660     | 46.84      | -27.16 | 74         | 43.75  | 40.49    | 20.41  | 57.81  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10440     | 41.31      | -32.69 | 74         | 47.49  | 37.26    | 16.41  | 59.85  | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15660     | 47.76      | -26.24 | 74         | 44.67  | 40.49    | 20.41  | 57.81  | 100    | 0       | P     | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |                                                                                             | 10480     | 42.45      | -31.55 | 74         | 48.52  | 37.29    | 16.45  | 59.81  | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15720     | 48.84      | -25.16 | 74         | 45.59  | 40.57    | 20.45  | 57.77  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10480     | 41.39      | -32.61 | 74         | 47.46  | 37.29    | 16.45  | 59.81  | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15720     | 48.48      | -25.52 | 74         | 45.23  | 40.57    | 20.45  | 57.77  | 100    | 0       | P     | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## 15E Band 1 5150~5250MHz

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

| WIFI                                | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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>HT40<br>CH 38<br>5190MHz |                                                                                             | 5149.7    | 69.51      | -4.49  | 74         | 55.84    | 34.61    | 11.55  | 32.49  | 225    | 355     | P       | H       |
|                                     |                                                                                             | 5149.55   | 52.49      | -1.51  | 54         | 38.82    | 34.61    | 11.55  | 32.49  | 225    | 355     | A       | H       |
|                                     | *                                                                                           | 5190      | 106.35     | -      | -          | 92.62    | 34.66    | 11.59  | 32.52  | 225    | 355     | P       | H       |
|                                     | *                                                                                           | 5190      | 95.63      | -      | -          | 81.9     | 34.66    | 11.59  | 32.52  | 225    | 355     | A       | H       |
|                                     |                                                                                             | 5365.95   | 56.46      | -17.54 | 74         | 43.02    | 34.91    | 11.71  | 33.18  | 225    | 355     | P       | H       |
|                                     |                                                                                             | 5383.22   | 43.24      | -10.76 | 54         | 29.84    | 34.94    | 11.74  | 33.28  | 225    | 355     | A       | H       |
|                                     |                                                                                             | 5150      | 63.83      | -10.17 | 74         | 50.16    | 34.61    | 11.55  | 32.49  | 127    | 111     | P       | V       |
|                                     |                                                                                             | 5150      | 47.45      | -6.55  | 54         | 33.78    | 34.61    | 11.55  | 32.49  | 127    | 111     | A       | V       |
|                                     | *                                                                                           | 5190      | 98.52      | -      | -          | 84.79    | 34.66    | 11.59  | 32.52  | 127    | 111     | P       | V       |
|                                     | *                                                                                           | 5190      | 88.23      | -      | -          | 74.5     | 34.66    | 11.59  | 32.52  | 127    | 111     | A       | V       |
|                                     |                                                                                             | 5386.85   | 56         | -18    | 74         | 42.6     | 34.94    | 11.74  | 33.28  | 127    | 111     | P       | V       |
|                                     |                                                                                             | 5374.64   | 43.11      | -10.89 | 54         | 29.77    | 34.91    | 11.71  | 33.28  | 127    | 111     | A       | V       |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |                                                                                             | 5149.1    | 57.78      | -16.22 | 74         | 44.11    | 34.61    | 11.55  | 32.49  | 219    | 354     | P       | H       |
|                                     |                                                                                             | 5149.85   | 44.62      | -9.38  | 54         | 30.95    | 34.61    | 11.55  | 32.49  | 219    | 354     | A       | H       |
|                                     | *                                                                                           | 5230      | 106.24     | -      | -          | 92.54    | 34.73    | 11.62  | 32.65  | 219    | 354     | P       | H       |
|                                     | *                                                                                           | 5230      | 95.45      | -      | -          | 81.75    | 34.73    | 11.62  | 32.65  | 219    | 354     | A       | H       |
|                                     |                                                                                             | 5358.8    | 57.17      | -16.83 | 74         | 43.75    | 34.89    | 11.71  | 33.18  | 219    | 354     | P       | H       |
|                                     |                                                                                             | 5351.54   | 44.1       | -9.9   | 54         | 30.68    | 34.89    | 11.71  | 33.18  | 219    | 354     | A       | H       |
|                                     |                                                                                             | 5139.8    | 57.1       | -16.9  | 74         | 43.44    | 34.61    | 11.5   | 32.45  | 115    | 96      | P       | V       |
|                                     |                                                                                             | 5148.65   | 43.94      | -10.06 | 54         | 30.27    | 34.61    | 11.55  | 32.49  | 115    | 96      | A       | V       |
|                                     | *                                                                                           | 5230      | 100.23     | -      | -          | 86.53    | 34.73    | 11.62  | 32.65  | 115    | 96      | P       | V       |
|                                     | *                                                                                           | 5230      | 89.44      | -      | -          | 75.74    | 34.73    | 11.62  | 32.65  | 115    | 96      | A       | V       |
|                                     |                                                                                             | 5399.39   | 57.46      | -16.54 | 74         | 44.15    | 34.96    | 11.74  | 33.39  | 115    | 96      | P       | V       |
|                                     |                                                                                             | 5396.97   | 43.91      | -10.09 | 54         | 30.49    | 34.96    | 11.74  | 33.28  | 115    | 96      | A       | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note                                                         | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | 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>HT40<br>CH 38<br>5190MHz |                                                              | 10380     | 42.23      | -31.77 | 74         | 48.55  | 37.23    | 16.34  | 59.89  | 100    | 0       | P     | H     |
|                                     |                                                              | 15570     | 48.68      | -25.32 | 74         | 45.78  | 40.38    | 20.38  | 57.86  | 100    | 0       | P     | H     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                              | 10380     | 41.88      | -32.12 | 74         | 48.2   | 37.23    | 16.34  | 59.89  | 100    | 0       | P     | V     |
|                                     |                                                              | 15570     | 48.49      | -25.51 | 74         | 45.59  | 40.38    | 20.38  | 57.86  | 100    | 0       | P     | V     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |                                                              | 10460     | 42.66      | -31.34 | 74         | 48.82  | 37.27    | 16.41  | 59.84  | 100    | 0       | P     | H     |
|                                     |                                                              | 15690     | 48.17      | -25.83 | 74         | 45     | 40.53    | 20.43  | 57.79  | 100    | 0       | P     | H     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                              | 10460     | 41.96      | -32.04 | 74         | 48.12  | 37.27    | 16.41  | 59.84  | 100    | 0       | P     | V     |
|                                     |                                                              | 15690     | 48.9       | -25.1  | 74         | 45.73  | 40.53    | 20.43  | 57.79  | 100    | 0       | P     | V     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                              | 1. No other spurious found.                                  |           |            |        |            |        |          |        |        |        |         |       |       |
|                                     | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## 15E Band 1 5150~5250MHz

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

| WIFI                                  | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 ) |
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                             | 5148.8    | 67.37      | -6.63  | 74         | 53.7     | 34.61    | 11.55  | 32.49  | 234    | 354     | P       | H       |
|                                       |                                                                                             | 5150      | 52.74      | -1.26  | 54         | 39.07    | 34.61    | 11.55  | 32.49  | 234    | 354     | A       | H       |
|                                       | *                                                                                           | 5210      | 101.95     | -      | -          | 88.21    | 34.7     | 11.59  | 32.55  | 234    | 354     | P       | H       |
|                                       | *                                                                                           | 5210      | 91.95      | -      | -          | 78.21    | 34.7     | 11.59  | 32.55  | 234    | 354     | A       | H       |
|                                       |                                                                                             | 5372.66   | 56.85      | -17.15 | 74         | 43.41    | 34.91    | 11.71  | 33.18  | 234    | 354     | P       | H       |
|                                       |                                                                                             | 5354.95   | 44.08      | -9.92  | 54         | 30.66    | 34.89    | 11.71  | 33.18  | 234    | 354     | A       | H       |
|                                       |                                                                                             | 5147.75   | 61.78      | -12.22 | 74         | 48.11    | 34.61    | 11.55  | 32.49  | 220    | 308     | P       | V       |
|                                       |                                                                                             | 5146.1    | 47.91      | -6.09  | 54         | 34.24    | 34.61    | 11.55  | 32.49  | 220    | 308     | A       | V       |
|                                       | *                                                                                           | 5210      | 96.29      | -      | -          | 82.55    | 34.7     | 11.59  | 32.55  | 220    | 308     | P       | V       |
|                                       | *                                                                                           | 5210      | 86.13      | -      | -          | 72.39    | 34.7     | 11.59  | 32.55  | 220    | 308     | A       | V       |
|                                       |                                                                                             | 5408.3    | 56.98      | -17.02 | 74         | 43.67    | 34.96    | 11.74  | 33.39  | 220    | 308     | P       | V       |
|                                       |                                                                                             | 5389.82   | 43.21      | -10.79 | 54         | 29.81    | 34.94    | 11.74  | 33.28  | 220    | 308     | A       | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |

## 15E Band 1 5150~5250MHz

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

| WIFI                                  | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 ) |
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                             | 10420     | 41.96      | -32.04 | 74         | 48.21    | 37.25    | 16.37  | 59.87  | 100    | 0       | P       | H       |
|                                       |                                                                                             | 15630     | 46.32      | -27.68 | 74         | 43.26    | 40.47    | 20.41  | 57.82  | 100    | 0       | P       | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             | 10420     | 42.17      | -31.83 | 74         | 48.42    | 37.25    | 16.37  | 59.87  | 100    | 0       | P       | V       |
|                                       |                                                                                             | 15630     | 47.37      | -26.63 | 74         | 44.31    | 40.47    | 20.41  | 57.82  | 100    | 0       | P       | V       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 2 5250~5350MHz

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

| WIFI                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 |      | 5141.75   | 57.05      | -16.95 | 74         | 43.34    | 34.61    | 11.55  | 32.45  | 241    | 355     | P       | H       |
|                             |      | 5149.7    | 43.03      | -10.97 | 54         | 29.36    | 34.61    | 11.55  | 32.49  | 241    | 355     | A       | H       |
|                             | *    | 5260      | 108.27     | -      | -          | 94.64    | 34.77    | 11.62  | 32.76  | 241    | 355     | P       | H       |
|                             | *    | 5260      | 97.54      | -      | -          | 83.91    | 34.77    | 11.62  | 32.76  | 241    | 355     | A       | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         | A       | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      | 5031.95   | 57.08      | -16.92 | 74         | 43.54    | 34.45    | 11.41  | 32.32  | 370    | 45      | P       | V       |
|                             |      | 5146.7    | 42.94      | -11.06 | 54         | 29.27    | 34.61    | 11.55  | 32.49  | 370    | 45      | A       | V       |
|                             | *    | 5260      | 103        | -      | -          | 89.37    | 34.77    | 11.62  | 32.76  | 370    | 45      | P       | V       |
|                             | *    | 5260      | 92.33      | -      | -          | 78.7     | 34.77    | 11.62  | 32.76  | 370    | 45      | A       | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 802.11a<br>CH 60<br>5300MHz |      | 5132.15   | 57.54      | -16.46 | 74         | 43.9     | 34.59    | 11.5   | 32.45  | 249    | 350     | P       | H       |
|                             |      | 5150      | 43.02      | -10.98 | 54         | 29.35    | 34.61    | 11.55  | 32.49  | 249    | 350     | A       | H       |
|                             | *    | 5300      | 106.47     | -      | -          | 92.97    | 34.82    | 11.65  | 32.97  | 249    | 350     | P       | H       |
|                             | *    | 5300      | 96.17      | -      | -          | 82.67    | 34.82    | 11.65  | 32.97  | 249    | 350     | A       | H       |
|                             |      | 5431.07   | 57.74      | -16.26 | 74         | 44.41    | 35.01    | 11.8   | 33.48  | 249    | 350     | P       | H       |
|                             |      | 5350.44   | 43.64      | -10.36 | 54         | 30.22    | 34.89    | 11.71  | 33.18  | 249    | 350     | A       | H       |
|                             |      | 5136.5    | 57.64      | -16.36 | 74         | 44       | 34.59    | 11.5   | 32.45  | 231    | 13      | P       | V       |
|                             |      | 5148.5    | 42.91      | -11.09 | 54         | 29.24    | 34.61    | 11.55  | 32.49  | 231    | 13      | A       | V       |
|                             | *    | 5300      | 102.63     | -      | -          | 89.13    | 34.82    | 11.65  | 32.97  | 231    | 13      | P       | V       |
|                             | *    | 5300      | 91.78      | -      | -          | 78.28    | 34.82    | 11.65  | 32.97  | 231    | 13      | A       | V       |
|                             |      | 5392.9    | 57.37      | -16.63 | 74         | 43.97    | 34.94    | 11.74  | 33.28  | 231    | 13      | P       | V       |
|                             |      | 5351.21   | 43.37      | -10.63 | 54         | 29.95    | 34.89    | 11.71  | 33.18  | 231    | 13      | A       | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         |         |



|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 64<br/>5320MHz</b> | *                                                                                           | 5320    | 107.53 | -      | -  | 93.98 | 34.84 | 11.68 | 32.97 | 239 | 354 | P | H |
|                                      | *                                                                                           | 5320    | 96.69  | -      | -  | 83.14 | 34.84 | 11.68 | 32.97 | 239 | 354 | A | H |
|                                      |                                                                                             | 5351.1  | 61.57  | -12.43 | 74 | 48.15 | 34.89 | 11.71 | 33.18 | 239 | 354 | P | H |
|                                      |                                                                                             | 5350.11 | 45.36  | -8.64  | 54 | 31.94 | 34.89 | 11.71 | 33.18 | 239 | 354 | A | H |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                      | *                                                                                           | 5320    | 102.48 | -      | -  | 88.93 | 34.84 | 11.68 | 32.97 | 103 | 13  | P | V |
|                                      | *                                                                                           | 5320    | 90.93  | -      | -  | 77.38 | 34.84 | 11.68 | 32.97 | 103 | 13  | A | V |
|                                      |                                                                                             | 5350.33 | 58.64  | -15.36 | 74 | 45.22 | 34.89 | 11.71 | 33.18 | 103 | 13  | P | V |
|                                      |                                                                                             | 5350.33 | 43.88  | -10.12 | 54 | 30.46 | 34.89 | 11.71 | 33.18 | 103 | 13  | A | V |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## 15E Band 2 5250~5350MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI                        | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 |                                                                                             | 10520     | 42.91      | -31.09 | 74         | 48.88    | 37.32    | 16.49  | 59.78  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15780     | 48.31      | -25.69 | 74         | 44.95    | 40.63    | 20.46  | 57.73  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10520     | 42.12      | -31.88 | 74         | 48.09    | 37.32    | 16.49  | 59.78  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15780     | 48.29      | -25.71 | 74         | 44.93    | 40.63    | 20.46  | 57.73  | 100    | 0       | P       | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 60<br>5300MHz |                                                                                             | 10600     | 41.8       | -32.2  | 74         | 47.48    | 37.42    | 16.56  | 59.66  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15900     | 48.26      | -25.74 | 74         | 44.62    | 40.78    | 20.52  | 57.66  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10600     | 41.68      | -32.32 | 74         | 47.36    | 37.42    | 16.56  | 59.66  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15900     | 48.7       | -25.3  | 74         | 45.06    | 40.78    | 20.52  | 57.66  | 100    | 0       | P       | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 64<br>5320MHz |                                                                                             | 10640     | 42.21      | -31.79 | 74         | 47.75    | 37.47    | 16.6   | 59.61  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15960     | 48.34      | -25.66 | 74         | 44.55    | 40.86    | 20.55  | 57.62  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10640     | 41.85      | -32.15 | 74         | 47.39    | 37.47    | 16.6   | 59.61  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15960     | 47.92      | -26.08 | 74         | 44.13    | 40.86    | 20.55  | 57.62  | 100    | 0       | P       | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 2 5250~5350MHz

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

| WIFI                                | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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>HT20<br>CH 52<br>5260MHz |      | 5149.7    | 57.67      | -16.33 | 74         | 44       | 34.61    | 11.55  | 32.49  | 214    | 355     | P       | H       |
|                                     |      | 5150      | 42.85      | -11.15 | 54         | 29.18    | 34.61    | 11.55  | 32.49  | 214    | 355     | A       | H       |
|                                     | *    | 5260      | 110.7      | -      | -          | 97.07    | 34.77    | 11.62  | 32.76  | 214    | 355     | P       | H       |
|                                     | *    | 5260      | 97.34      | -      | -          | 83.71    | 34.77    | 11.62  | 32.76  | 214    | 355     | A       | H       |
|                                     |      | 5439.54   | 56.78      | -17.22 | 74         | 43.45    | 35.01    | 11.8   | 33.48  | 214    | 355     | P       | H       |
|                                     |      | 5383.88   | 43.05      | -10.95 | 54         | 29.65    | 34.94    | 11.74  | 33.28  | 214    | 355     | A       | H       |
|                                     |      | 5012.45   | 57.15      | -16.85 | 74         | 43.65    | 34.42    | 11.37  | 32.29  | 102    | 17      | P       | V       |
|                                     |      | 5149.7    | 42.66      | -11.34 | 54         | 28.99    | 34.61    | 11.55  | 32.49  | 102    | 17      | A       | V       |
|                                     | *    | 5260      | 102.46     | -      | -          | 88.83    | 34.77    | 11.62  | 32.76  | 102    | 17      | P       | V       |
|                                     | *    | 5260      | 90.23      | -      | -          | 76.6     | 34.77    | 11.62  | 32.76  | 102    | 17      | A       | V       |
|                                     |      | 5426.67   | 57.08      | -16.92 | 74         | 43.78    | 34.98    | 11.8   | 33.48  | 102    | 17      | P       | V       |
|                                     |      | 5388.17   | 42.99      | -11.01 | 54         | 29.59    | 34.94    | 11.74  | 33.28  | 102    | 17      | A       | V       |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5042.9    | 56.77      | -17.23 | 74         | 43.24    | 34.47    | 11.41  | 32.35  | 214    | 357     | P       | H       |
|                                     |      | 5148.35   | 42.74      | -11.26 | 54         | 29.07    | 34.61    | 11.55  | 32.49  | 214    | 357     | A       | H       |
|                                     | *    | 5300      | 108.46     | -      | -          | 94.96    | 34.82    | 11.65  | 32.97  | 214    | 357     | P       | H       |
|                                     | *    | 5300      | 96.2       | -      | -          | 82.7     | 34.82    | 11.65  | 32.97  | 214    | 357     | A       | H       |
|                                     |      | 5354.73   | 56.92      | -17.08 | 74         | 43.5     | 34.89    | 11.71  | 33.18  | 214    | 357     | P       | H       |
|                                     |      | 5350.44   | 43.58      | -10.42 | 54         | 30.16    | 34.89    | 11.71  | 33.18  | 214    | 357     | A       | H       |
|                                     |      | 5087      | 56.67      | -17.33 | 74         | 43.08    | 34.52    | 11.46  | 32.39  | 232    | 11      | P       | V       |
|                                     |      | 5149.1    | 42.65      | -11.35 | 54         | 28.98    | 34.61    | 11.55  | 32.49  | 232    | 11      | A       | V       |
|                                     | *    | 5300      | 104.38     | -      | -          | 90.88    | 34.82    | 11.65  | 32.97  | 232    | 11      | P       | V       |
|                                     | *    | 5300      | 92.01      | -      | -          | 78.51    | 34.82    | 11.65  | 32.97  | 232    | 11      | A       | V       |
|                                     |      | 5381.79   | 56.85      | -17.15 | 74         | 43.45    | 34.94    | 11.74  | 33.28  | 232    | 11      | P       | V       |
|                                     |      | 5350.66   | 43.18      | -10.82 | 54         | 29.76    | 34.89    | 11.71  | 33.18  | 232    | 11      | A       | V       |



|                                                                             |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n</b><br><br><b>HT20</b><br><br><b>CH 64</b><br><br><b>5320MHz</b> | *                                                                                           | 5320    | 108.18 | -      | -  | 94.63 | 34.84 | 11.68 | 32.97 | 224 | 356 | P | H |
|                                                                             | *                                                                                           | 5320    | 96.02  | -      | -  | 82.47 | 34.84 | 11.68 | 32.97 | 224 | 356 | A | H |
|                                                                             |                                                                                             | 5350.44 | 60.81  | -13.19 | 74 | 47.39 | 34.89 | 11.71 | 33.18 | 224 | 356 | P | H |
|                                                                             |                                                                                             | 5350    | 44.7   | -9.3   | 54 | 31.28 | 34.89 | 11.71 | 33.18 | 224 | 356 | A | H |
|                                                                             |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                                                             |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                                                             | *                                                                                           | 5320    | 103.83 | -      | -  | 90.28 | 34.84 | 11.68 | 32.97 | 220 | 11  | P | V |
|                                                                             | *                                                                                           | 5320    | 91.34  | -      | -  | 77.79 | 34.84 | 11.68 | 32.97 | 220 | 11  | A | V |
|                                                                             |                                                                                             | 5355.83 | 59.23  | -14.77 | 74 | 45.81 | 34.89 | 11.71 | 33.18 | 220 | 11  | P | V |
|                                                                             |                                                                                             | 5350.88 | 43.61  | -10.39 | 54 | 30.19 | 34.89 | 11.71 | 33.18 | 220 | 11  | A | V |
|                                                                             |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
|                                                                             |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
| <b>Remark</b>                                                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## 15E Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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>HT20<br>CH 52<br>5260MHz |                                                                                             | 10520     | 42.75      | -31.25 | 74         | 48.72    | 37.32    | 16.49  | 59.78  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 15780     | 48.83      | -25.17 | 74         | 45.47    | 40.63    | 20.46  | 57.73  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 10520     | 41.88      | -32.12 | 74         | 47.85    | 37.32    | 16.49  | 59.78  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 15780     | 48.97      | -25.03 | 74         | 45.61    | 40.63    | 20.46  | 57.73  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |                                                                                             | 10600     | 42.09      | -31.91 | 74         | 47.77    | 37.42    | 16.56  | 59.66  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 15900     | 48.27      | -25.73 | 74         | 44.63    | 40.78    | 20.52  | 57.66  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 10600     | 41.56      | -32.44 | 74         | 47.24    | 37.42    | 16.56  | 59.66  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 15900     | 48.94      | -25.06 | 74         | 45.3     | 40.78    | 20.52  | 57.66  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |                                                                                             | 10640     | 42.17      | -31.83 | 74         | 47.71    | 37.47    | 16.6   | 59.61  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 15960     | 47.47      | -26.53 | 74         | 43.68    | 40.86    | 20.55  | 57.62  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 10640     | 41.57      | -32.43 | 74         | 47.11    | 37.47    | 16.6   | 59.61  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 15960     | 47.3       | -26.7  | 74         | 43.51    | 40.86    | 20.55  | 57.62  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 2 5250~5350MHz

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

| WIFI                                | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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>HT40<br>CH 54<br>5270MHz |                                                                                             | 5138.75   | 57.08      | -16.92 | 74         | 43.44    | 34.59    | 11.5   | 32.45  | 229    | 354     | P       | H       |
|                                     |                                                                                             | 5140.25   | 43.89      | -10.11 | 54         | 30.18    | 34.61    | 11.55  | 32.45  | 229    | 354     | A       | H       |
|                                     | *                                                                                           | 5270      | 105.91     | -      | -          | 92.25    | 34.77    | 11.65  | 32.76  | 229    | 354     | P       | H       |
|                                     | *                                                                                           | 5270      | 95.07      | -      | -          | 81.41    | 34.77    | 11.65  | 32.76  | 229    | 354     | A       | H       |
|                                     |                                                                                             | 5383.66   | 58.03      | -15.97 | 74         | 44.63    | 34.94    | 11.74  | 33.28  | 229    | 354     | P       | H       |
|                                     |                                                                                             | 5360.67   | 44.41      | -9.59  | 54         | 30.97    | 34.91    | 11.71  | 33.18  | 229    | 354     | A       | H       |
|                                     |                                                                                             | 5010.2    | 56.42      | -17.58 | 74         | 42.92    | 34.42    | 11.37  | 32.29  | 103    | 17      | P       | V       |
|                                     |                                                                                             | 5142.5    | 43.56      | -10.44 | 54         | 29.85    | 34.61    | 11.55  | 32.45  | 103    | 17      | A       | V       |
|                                     | *                                                                                           | 5270      | 99.58      | -      | -          | 85.92    | 34.77    | 11.65  | 32.76  | 103    | 17      | P       | V       |
|                                     | *                                                                                           | 5270      | 88.81      | -      | -          | 75.15    | 34.77    | 11.65  | 32.76  | 103    | 17      | A       | V       |
|                                     |                                                                                             | 5372.77   | 56.57      | -17.43 | 74         | 43.13    | 34.91    | 11.71  | 33.18  | 103    | 17      | P       | V       |
|                                     |                                                                                             | 5366.06   | 44.01      | -9.99  | 54         | 30.57    | 34.91    | 11.71  | 33.18  | 103    | 17      | A       | V       |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |                                                                                             | 5136.35   | 56.7       | -17.3  | 74         | 43.06    | 34.59    | 11.5   | 32.45  | 235    | 353     | P       | H       |
|                                     |                                                                                             | 5139.8    | 43.53      | -10.47 | 54         | 29.87    | 34.61    | 11.5   | 32.45  | 235    | 353     | A       | H       |
|                                     | *                                                                                           | 5310      | 105.37     | -      | -          | 91.82    | 34.84    | 11.68  | 32.97  | 235    | 353     | P       | H       |
|                                     | *                                                                                           | 5310      | 94.07      | -      | -          | 80.52    | 34.84    | 11.68  | 32.97  | 235    | 353     | A       | H       |
|                                     |                                                                                             | 5352.2    | 67.02      | -6.98  | 74         | 53.6     | 34.89    | 11.71  | 33.18  | 235    | 353     | P       | H       |
|                                     |                                                                                             | 5350.22   | 47.7       | -6.3   | 54         | 34.28    | 34.89    | 11.71  | 33.18  | 235    | 353     | A       | H       |
|                                     |                                                                                             | 5018      | 57.24      | -16.76 | 74         | 43.77    | 34.42    | 11.37  | 32.32  | 124    | 17      | P       | V       |
|                                     |                                                                                             | 5136.65   | 43.53      | -10.47 | 54         | 29.89    | 34.59    | 11.5   | 32.45  | 124    | 17      | A       | V       |
|                                     | *                                                                                           | 5313      | 99.81      | -      | -          | 86.26    | 34.84    | 11.68  | 32.97  | 124    | 17      | P       | V       |
|                                     | *                                                                                           | 5313      | 88.78      | -      | -          | 75.23    | 34.84    | 11.68  | 32.97  | 124    | 17      | A       | V       |
|                                     |                                                                                             | 5351.87   | 64.63      | -9.37  | 74         | 51.21    | 34.89    | 11.71  | 33.18  | 124    | 17      | P       | V       |
|                                     |                                                                                             | 5350      | 45.89      | -8.11  | 54         | 32.47    | 34.89    | 11.71  | 33.18  | 124    | 17      | A       | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note                                                         | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | 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>HT40<br>CH 54<br>5270MHz |                                                              | 10540     | 42.42      | -31.58 | 74         | 48.34  | 37.34    | 16.49  | 59.75  | 100    | 0       | P     | H     |
|                                     |                                                              | 15810     | 48.55      | -25.45 | 74         | 45.11  | 40.67    | 20.48  | 57.71  | 100    | 0       | P     | H     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                              | 10540     | 41.51      | -32.49 | 74         | 47.43  | 37.34    | 16.49  | 59.75  | 100    | 0       | P     | V     |
|                                     |                                                              | 15810     | 48.61      | -25.39 | 74         | 45.17  | 40.67    | 20.48  | 57.71  | 100    | 0       | P     | V     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |                                                              | 10620     | 41.98      | -32.02 | 74         | 47.61  | 37.44    | 16.56  | 59.63  | 100    | 0       | P     | H     |
|                                     |                                                              | 15930     | 46.99      | -27.01 | 74         | 43.28  | 40.82    | 20.53  | 57.64  | 100    | 0       | P     | H     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                              | 10620     | 41.4       | -32.6  | 74         | 47.03  | 37.44    | 16.56  | 59.63  | 100    | 0       | P     | V     |
|                                     |                                                              | 15930     | 48.21      | -25.79 | 74         | 44.5   | 40.82    | 20.53  | 57.64  | 100    | 0       | P     | V     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                              | 1. No other spurious found.                                  |           |            |        |            |        |          |        |        |        |         |       |       |
|                                     | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## 15E Band 2 5250~5350MHz

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

| WIFI                                  | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 ) |
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                             | 5145.95   | 58.23      | -15.77 | 74         | 44.56    | 34.61    | 11.55  | 32.49  | 252    | 9       | P       | H       |
|                                       |                                                                                             | 5144.45   | 45.52      | -8.48  | 54         | 31.85    | 34.61    | 11.55  | 32.49  | 252    | 9       | A       | H       |
|                                       | *                                                                                           | 5290      | 102.58     | -      | -          | 88.99    | 34.8     | 11.65  | 32.86  | 252    | 9       | P       | H       |
|                                       | *                                                                                           | 5290      | 92.88      | -      | -          | 79.29    | 34.8     | 11.65  | 32.86  | 252    | 9       | A       | H       |
|                                       |                                                                                             | 5353.52   | 67.69      | -6.31  | 74         | 54.27    | 34.89    | 11.71  | 33.18  | 252    | 9       | P       | H       |
|                                       |                                                                                             | 5351.1    | 50.61      | -3.39  | 54         | 37.19    | 34.89    | 11.71  | 33.18  | 252    | 9       | A       | H       |
|                                       |                                                                                             | 5142.35   | 57.47      | -16.53 | 74         | 43.76    | 34.61    | 11.55  | 32.45  | 247    | 22      | P       | V       |
|                                       |                                                                                             | 5134.25   | 44.59      | -9.41  | 54         | 30.95    | 34.59    | 11.5   | 32.45  | 247    | 22      | A       | V       |
|                                       | *                                                                                           | 5290      | 97.77      | -      | -          | 84.18    | 34.8     | 11.65  | 32.86  | 247    | 22      | P       | V       |
|                                       | *                                                                                           | 5290      | 87.87      | -      | -          | 74.28    | 34.8     | 11.65  | 32.86  | 247    | 22      | A       | V       |
|                                       |                                                                                             | 5355.94   | 62.26      | -11.74 | 74         | 48.84    | 34.89    | 11.71  | 33.18  | 247    | 22      | P       | V       |
|                                       |                                                                                             | 5350.11   | 48.58      | -5.42  | 54         | 35.16    | 34.89    | 11.71  | 33.18  | 247    | 22      | A       | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |

## 15E Band 2 5250~5350MHz

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

| WIFI                                  | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 ) |
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                             | 10580     | 41.81      | -32.19 | 74         | 47.57    | 37.4     | 16.52  | 59.68  | 100    | 0       | P       | H       |
|                                       |                                                                                             | 15870     | 48.25      | -25.75 | 74         | 44.64    | 40.76    | 20.52  | 57.67  | 100    | 0       | P       | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             | 10580     | 42.26      | -31.74 | 74         | 48.02    | 37.4     | 16.52  | 59.68  | 100    | 0       | P       | V       |
|                                       |                                                                                             | 15870     | 49.15      | -24.85 | 74         | 45.54    | 40.76    | 20.52  | 57.67  | 100    | 0       | P       | V       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 3 5470~5725MHz

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

| WIFI                         | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 |      | 5468.56   | 61.61      | -12.39 | 74         | 48.27    | 35.05    | 11.86  | 33.57  | 224    | 1       | P       | H       |
|                              |      | 5469.84   | 43.7       | -10.3  | 54         | 30.36    | 35.05    | 11.86  | 33.57  | 224    | 1       | A       | H       |
|                              | *    | 5500      | 104.91     | -      | -          | 91.61    | 35.1     | 11.86  | 33.66  | 224    | 1       | P       | H       |
|                              | *    | 5500      | 94.54      | -      | -          | 81.24    | 35.1     | 11.86  | 33.66  | 224    | 1       | A       | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      | 5465.52   | 59.35      | -14.65 | 74         | 46.01    | 35.05    | 11.86  | 33.57  | 107    | 17      | P       | V       |
|                              |      | 5469.68   | 43.63      | -10.37 | 54         | 30.29    | 35.05    | 11.86  | 33.57  | 107    | 17      | A       | V       |
|                              | *    | 5499      | 102.66     | -      | -          | 89.36    | 35.1     | 11.86  | 33.66  | 107    | 17      | P       | V       |
|                              | *    | 5499      | 93.06      | -      | -          | 79.76    | 35.1     | 11.86  | 33.66  | 107    | 17      | A       | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 802.11a<br>CH 116<br>5580MHz |      | 5407.44   | 57.29      | -16.71 | 74         | 43.98    | 34.96    | 11.74  | 33.39  | 219    | 2       | P       | H       |
|                              |      | 5391.6    | 43.17      | -10.83 | 54         | 29.77    | 34.94    | 11.74  | 33.28  | 219    | 2       | A       | H       |
|                              | *    | 5580      | 103.99     | -      | -          | 90.88    | 35.14    | 11.98  | 34.01  | 219    | 2       | P       | H       |
|                              | *    | 5580      | 92.65      | -      | -          | 79.54    | 35.14    | 11.98  | 34.01  | 219    | 2       | A       | H       |
|                              |      | 5743.56   | 57.18      | -16.82 | 74         | 43.78    | 35.24    | 12.33  | 34.17  | 219    | 2       | P       | H       |
|                              |      | 5758.52   | 42.91      | -11.09 | 54         | 29.52    | 35.26    | 12.33  | 34.2   | 219    | 2       | A       | H       |
|                              |      | 5362.32   | 57.54      | -16.46 | 74         | 44.1     | 34.91    | 11.71  | 33.18  | 112    | 21      | P       | V       |
|                              |      | 5387.28   | 43.17      | -10.83 | 54         | 29.77    | 34.94    | 11.74  | 33.28  | 112    | 21      | A       | V       |
|                              | *    | 5580      | 102.57     | -      | -          | 89.46    | 35.14    | 11.98  | 34.01  | 112    | 21      | P       | V       |
|                              | *    | 5580      | 91.79      | -      | -          | 78.68    | 35.14    | 11.98  | 34.01  | 112    | 21      | A       | V       |
|                              |      | 5740.92   | 57.58      | -16.42 | 74         | 44.18    | 35.24    | 12.33  | 34.17  | 112    | 21      | P       | V       |
|                              |      | 5763.64   | 42.89      | -11.11 | 54         | 29.5     | 35.26    | 12.33  | 34.2   | 112    | 21      | A       | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         |         |



|                                                   |                                                                                             |         |        |        |    |       |       |       |       |     |    |   |   |
|---------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|----|---|---|
| <b>802.11a</b><br><b>CH 140</b><br><b>5700MHz</b> | *                                                                                           | 5700    | 98.66  | -      | -  | 85.39 | 35.21 | 12.18 | 34.12 | 243 | 6  | P | H |
|                                                   | *                                                                                           | 5700    | 87.74  | -      | -  | 74.47 | 35.21 | 12.18 | 34.12 | 243 | 6  | A | H |
|                                                   |                                                                                             | 5735.16 | 57.25  | -16.75 | 74 | 43.92 | 35.24 | 12.26 | 34.17 | 243 | 6  | P | H |
|                                                   |                                                                                             | 5725.56 | 43.26  | -10.74 | 54 | 29.92 | 35.23 | 12.26 | 34.15 | 243 | 6  | A | H |
|                                                   |                                                                                             |         |        |        |    |       |       |       |       |     |    |   | H |
|                                                   |                                                                                             |         |        |        |    |       |       |       |       |     |    |   | H |
|                                                   | *                                                                                           | 5700    | 101.81 | -      | -  | 88.54 | 35.21 | 12.18 | 34.12 | 136 | 19 | P | V |
|                                                   | *                                                                                           | 5700    | 90.6   | -      | -  | 77.33 | 35.21 | 12.18 | 34.12 | 136 | 19 | A | V |
|                                                   |                                                                                             | 5744.2  | 58.57  | -15.43 | 74 | 45.17 | 35.24 | 12.33 | 34.17 | 136 | 19 | P | V |
|                                                   |                                                                                             | 5725.8  | 43.55  | -10.45 | 54 | 30.21 | 35.23 | 12.26 | 34.15 | 136 | 19 | A | V |
|                                                   |                                                                                             |         |        |        |    |       |       |       |       |     |    |   | V |
|                                                   |                                                                                             |         |        |        |    |       |       |       |       |     |    |   | V |
| <b>Remark</b>                                     | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |    |   |   |



## 15E Band 3 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI                         | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 |                                                                                             | 11000     | 44.24      | -29.76 | 74         | 48.5     | 37.9     | 16.94  | 59.1   | 100    | 0       | P       | H       |
|                              |                                                                                             | 16500     | 49.34      | -24.66 | 74         | 43.86    | 41.4     | 20.88  | 56.8   | 100    | 0       | P       | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             | 11000     | 44.37      | -29.63 | 74         | 48.63    | 37.9     | 16.94  | 59.1   | 100    | 0       | P       | V       |
|                              |                                                                                             | 16500     | 50.48      | -23.52 | 74         | 45       | 41.4     | 20.88  | 56.8   | 100    | 0       | P       | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 116<br>5580MHz |                                                                                             | 11160     | 44.12      | -29.88 | 74         | 47.71    | 38       | 17.08  | 58.67  | 100    | 0       | P       | H       |
|                              |                                                                                             | 16740     | 49.23      | -24.77 | 74         | 42.92    | 41.88    | 21.04  | 56.61  | 100    | 0       | P       | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             | 11160     | 44.08      | -29.92 | 74         | 47.67    | 38       | 17.08  | 58.67  | 100    | 0       | P       | V       |
|                              |                                                                                             | 16740     | 49.29      | -24.71 | 74         | 42.98    | 41.88    | 21.04  | 56.61  | 100    | 0       | P       | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 140<br>5700MHz |                                                                                             | 11400     | 43.82      | -30.18 | 74         | 46.43    | 38.14    | 17.31  | 58.06  | 100    | 0       | P       | H       |
|                              |                                                                                             | 17100     | 49.7       | -24.3  | 74         | 42.57    | 42.32    | 21.27  | 56.46  | 100    | 0       | P       | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             | 11400     | 43.65      | -30.35 | 74         | 46.26    | 38.14    | 17.31  | 58.06  | 100    | 0       | P       | V       |
|                              |                                                                                             | 17100     | 49.94      | -24.06 | 74         | 42.81    | 42.32    | 21.27  | 56.46  | 100    | 0       | P       | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 3 5470~5725MHz

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

| WIFI                                 | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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>HT20<br>CH 100<br>5500MHz |      | 5469.68   | 61.41      | -12.59 | 74         | 48.07    | 35.05    | 11.86  | 33.57  | 209    | 353     | P       | H       |
|                                      |      | 5468.56   | 43.52      | -10.48 | 54         | 30.18    | 35.05    | 11.86  | 33.57  | 209    | 353     | A       | H       |
|                                      | *    | 5500      | 104.24     | -      | -          | 90.94    | 35.1     | 11.86  | 33.66  | 209    | 353     | P       | H       |
|                                      | *    | 5500      | 91.87      | -      | -          | 78.57    | 35.1     | 11.86  | 33.66  | 209    | 353     | A       | H       |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |      | 5464.72   | 62.61      | -11.39 | 74         | 49.27    | 35.05    | 11.86  | 33.57  | 230    | 11      | P       | V       |
|                                      |      | 5469.04   | 43.61      | -10.39 | 54         | 30.27    | 35.05    | 11.86  | 33.57  | 230    | 11      | A       | V       |
|                                      | *    | 5500      | 104.85     | -      | -          | 91.55    | 35.1     | 11.86  | 33.66  | 230    | 11      | P       | V       |
|                                      | *    | 5500      | 91.75      | -      | -          | 78.45    | 35.1     | 11.86  | 33.66  | 230    | 11      | A       | V       |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5402.48   | 57.01      | -16.99 | 74         | 43.7     | 34.96    | 11.74  | 33.39  | 222    | 360     | P       | H       |
|                                      |      | 5381.52   | 42.97      | -11.03 | 54         | 29.57    | 34.94    | 11.74  | 33.28  | 222    | 360     | A       | H       |
|                                      | *    | 5580      | 103.18     | -      | -          | 90.07    | 35.14    | 11.98  | 34.01  | 222    | 360     | P       | H       |
|                                      | *    | 5580      | 90.76      | -      | -          | 77.65    | 35.14    | 11.98  | 34.01  | 222    | 360     | A       | H       |
|                                      |      | 5737.96   | 56.85      | -17.15 | 74         | 43.52    | 35.24    | 12.26  | 34.17  | 222    | 360     | P       | H       |
|                                      |      | 5763      | 42.65      | -11.35 | 54         | 29.26    | 35.26    | 12.33  | 34.2   | 222    | 360     | A       | H       |
|                                      |      | 5375.28   | 57.39      | -16.61 | 74         | 44.05    | 34.91    | 11.71  | 33.28  | 151    | 19      | P       | V       |
|                                      |      | 5382.32   | 42.95      | -11.05 | 54         | 29.55    | 34.94    | 11.74  | 33.28  | 151    | 19      | A       | V       |
|                                      | *    | 5580      | 103.76     | -      | -          | 90.65    | 35.14    | 11.98  | 34.01  | 151    | 19      | P       | V       |
|                                      | *    | 5580      | 90.84      | -      | -          | 77.73    | 35.14    | 11.98  | 34.01  | 151    | 19      | A       | V       |
|                                      |      | 5737.72   | 56.37      | -17.63 | 74         | 43.04    | 35.24    | 12.26  | 34.17  | 151    | 19      | P       | V       |
|                                      |      | 5764.44   | 42.66      | -11.34 | 54         | 29.27    | 35.26    | 12.33  | 34.2   | 151    | 19      | A       | V       |



|                                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 140</b><br><b>5700MHz</b> | *                                                                                           | 5700    | 101.02 | -      | -  | 87.75 | 35.21 | 12.18 | 34.12 | 245 | 359 | P | H |
|                                                                  | *                                                                                           | 5700    | 88.08  | -      | -  | 74.81 | 35.21 | 12.18 | 34.12 | 245 | 359 | A | H |
|                                                                  |                                                                                             | 5728.12 | 57.64  | -16.36 | 74 | 44.3  | 35.23 | 12.26 | 34.15 | 245 | 359 | P | H |
|                                                                  |                                                                                             | 5725.08 | 43.22  | -10.78 | 54 | 29.88 | 35.23 | 12.26 | 34.15 | 245 | 359 | A | H |
|                                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                                                  | *                                                                                           | 5700    | 101.85 | -      | -  | 88.58 | 35.21 | 12.18 | 34.12 | 135 | 19  | P | V |
|                                                                  | *                                                                                           | 5700    | 89.88  | -      | -  | 76.61 | 35.21 | 12.18 | 34.12 | 135 | 19  | A | V |
|                                                                  |                                                                                             | 5725.56 | 59     | -15    | 74 | 45.66 | 35.23 | 12.26 | 34.15 | 135 | 19  | P | V |
|                                                                  |                                                                                             | 5725    | 43.42  | -10.58 | 54 | 30.08 | 35.23 | 12.26 | 34.15 | 135 | 19  | A | V |
|                                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
|                                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
| <b>Remark</b>                                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## 15E Band 3 5470~5725MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                 | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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>HT20<br>CH 100<br>5500MHz |                                                                                             | 11000     | 43.79      | -30.21 | 74         | 48.05    | 37.9     | 16.94  | 59.1   | 100    | 0       | P       | H       |
|                                      |                                                                                             | 16500     | 49.64      | -24.36 | 74         | 44.16    | 41.4     | 20.88  | 56.8   | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11000     | 45.18      | -28.82 | 74         | 49.44    | 37.9     | 16.94  | 59.1   | 100    | 0       | P       | V       |
|                                      |                                                                                             | 16500     | 49.42      | -24.58 | 74         | 43.94    | 41.4     | 20.88  | 56.8   | 100    | 0       | P       | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |                                                                                             | 11160     | 43.51      | -30.49 | 74         | 47.1     | 38       | 17.08  | 58.67  | 100    | 0       | P       | H       |
|                                      |                                                                                             | 16740     | 48.92      | -25.08 | 74         | 42.61    | 41.88    | 21.04  | 56.61  | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11160     | 43.31      | -30.69 | 74         | 46.9     | 38       | 17.08  | 58.67  | 100    | 0       | P       | V       |
|                                      |                                                                                             | 16740     | 49.22      | -24.78 | 74         | 42.91    | 41.88    | 21.04  | 56.61  | 100    | 0       | P       | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |                                                                                             | 11400     | 43.32      | -30.68 | 74         | 45.93    | 38.14    | 17.31  | 58.06  | 100    | 0       | P       | H       |
|                                      |                                                                                             | 17100     | 50.03      | -23.97 | 74         | 42.9     | 42.32    | 21.27  | 56.46  | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11400     | 43.15      | -30.85 | 74         | 45.76    | 38.14    | 17.31  | 58.06  | 100    | 0       | P       | V       |
|                                      |                                                                                             | 17100     | 50.15      | -23.85 | 74         | 43.02    | 42.32    | 21.27  | 56.46  | 100    | 0       | P       | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 3 5470~5725MHz

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

| WIFI                                 | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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>HT40<br>CH 102<br>5510MHz |      | 5467.28   | 64.97      | -9.03  | 74         | 51.63    | 35.05    | 11.86  | 33.57  | 233    | 355     | P     | H     |
|                                      |      | 5469.68   | 46.88      | -7.12  | 54         | 33.54    | 35.05    | 11.86  | 33.57  | 233    | 355     | A     | H     |
|                                      | *    | 5510      | 102.18     | -      | -          | 88.9     | 35.1     | 11.92  | 33.74  | 233    | 355     | P     | H     |
|                                      | *    | 5510      | 90.63      | -      | -          | 77.35    | 35.1     | 11.92  | 33.74  | 233    | 355     | A     | H     |
|                                      |      | 5753.4    | 56.82      | -17.18 | 74         | 43.4     | 35.26    | 12.33  | 34.17  | 233    | 355     | P     | H     |
|                                      |      | 5758.44   | 43.48      | -10.52 | 54         | 30.09    | 35.26    | 12.33  | 34.2   | 233    | 355     | A     | H     |
|                                      |      | 5461.04   | 62.26      | -11.74 | 74         | 48.94    | 35.03    | 11.86  | 33.57  | 144    | 18      | P     | V     |
|                                      |      | 5469.2    | 46.34      | -7.66  | 54         | 33       | 35.05    | 11.86  | 33.57  | 144    | 18      | A     | V     |
|                                      | *    | 5510      | 100.45     | -      | -          | 87.17    | 35.1     | 11.92  | 33.74  | 144    | 18      | P     | V     |
|                                      | *    | 5510      | 89.23      | -      | -          | 75.95    | 35.1     | 11.92  | 33.74  | 144    | 18      | A     | V     |
|                                      |      | 5732.28   | 56.52      | -17.48 | 74         | 43.2     | 35.23    | 12.26  | 34.17  | 144    | 18      | P     | V     |
|                                      |      | 5747      | 43.42      | -10.58 | 54         | 30.02    | 35.24    | 12.33  | 34.17  | 144    | 18      | A     | V     |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |      | 5392.4    | 56.62      | -17.38 | 74         | 43.22    | 34.94    | 11.74  | 33.28  | 280    | 359     | P     | H     |
|                                      |      | 5404.56   | 43.83      | -10.17 | 54         | 30.52    | 34.96    | 11.74  | 33.39  | 280    | 359     | A     | H     |
|                                      | *    | 5550      | 100.51     | -      | -          | 87.23    | 35.13    | 11.98  | 33.83  | 280    | 359     | P     | H     |
|                                      | *    | 5550      | 89.05      | -      | -          | 75.77    | 35.13    | 11.98  | 33.83  | 280    | 359     | A     | H     |
|                                      |      | 5733.4    | 56.9       | -17.1  | 74         | 43.58    | 35.23    | 12.26  | 34.17  | 280    | 359     | P     | H     |
|                                      |      | 5760.76   | 43.56      | -10.44 | 54         | 30.17    | 35.26    | 12.33  | 34.2   | 280    | 359     | A     | H     |
|                                      |      | 5443.44   | 57.22      | -16.78 | 74         | 43.89    | 35.01    | 11.8   | 33.48  | 154    | 19      | P     | V     |
|                                      |      | 5397.52   | 43.77      | -10.23 | 54         | 30.35    | 34.96    | 11.74  | 33.28  | 154    | 19      | A     | V     |
|                                      | *    | 5550      | 99.51      | -      | -          | 86.23    | 35.13    | 11.98  | 33.83  | 154    | 19      | P     | V     |
|                                      | *    | 5550      | 88.77      | -      | -          | 75.49    | 35.13    | 11.98  | 33.83  | 154    | 19      | A     | V     |
|                                      |      | 5739.4    | 56.95      | -17.05 | 74         | 43.62    | 35.24    | 12.26  | 34.17  | 154    | 19      | P     | V     |
|                                      |      | 5764.44   | 43.56      | -10.44 | 54         | 30.17    | 35.26    | 12.33  | 34.2   | 154    | 19      | A     | V     |



|                                                                  |                                                                                             |         |       |        |    |       |       |       |       |     |     |   |   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|-------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT40</b><br><b>CH 134</b><br><b>5670MHz</b> |                                                                                             | 5389.36 | 57.76 | -16.24 | 74 | 44.36 | 34.94 | 11.74 | 33.28 | 109 | 349 | P | H |
|                                                                  |                                                                                             | 5397.84 | 44.28 | -9.72  | 54 | 30.86 | 34.96 | 11.74 | 33.28 | 109 | 349 | A | H |
|                                                                  | *                                                                                           | 5670    | 96.23 | -      | -  | 82.94 | 35.2  | 12.18 | 34.09 | 109 | 349 | P | H |
|                                                                  | *                                                                                           | 5670    | 87.04 | -      | -  | 73.75 | 35.2  | 12.18 | 34.09 | 109 | 349 | A | H |
|                                                                  |                                                                                             | 5725.88 | 57.23 | -16.77 | 74 | 43.89 | 35.23 | 12.26 | 34.15 | 109 | 349 | P | H |
|                                                                  |                                                                                             | 5745.56 | 44.06 | -9.94  | 54 | 30.66 | 35.24 | 12.33 | 34.17 | 109 | 349 | A | H |
|                                                                  |                                                                                             | 5410    | 57.28 | -16.72 | 74 | 43.97 | 34.96 | 11.74 | 33.39 | 235 | 13  | P | V |
|                                                                  |                                                                                             | 5379.76 | 44.35 | -9.65  | 54 | 30.98 | 34.94 | 11.71 | 33.28 | 235 | 13  | A | V |
|                                                                  | *                                                                                           | 5670    | 98.61 | -      | -  | 85.32 | 35.2  | 12.18 | 34.09 | 235 | 13  | P | V |
|                                                                  | *                                                                                           | 5670    | 89.3  | -      | -  | 76.01 | 35.2  | 12.18 | 34.09 | 235 | 13  | A | V |
|                                                                  |                                                                                             | 5726.84 | 57.52 | -16.48 | 74 | 44.18 | 35.23 | 12.26 | 34.15 | 235 | 13  | P | V |
|                                                                  |                                                                                             | 5756.92 | 44.33 | -9.67  | 54 | 30.94 | 35.26 | 12.33 | 34.2  | 235 | 13  | A | V |
| <b>Remark</b>                                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |       |        |    |       |       |       |       |     |     |   |   |



## 15E Band 3 5470~5725MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                 | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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>HT40<br>CH 102<br>5510MHz |                                                                                             | 11020     | 43.62      | -30.38 | 74         | 47.83    | 37.91    | 16.94  | 59.06  | 100    | 0       | P       | H       |
|                                      |                                                                                             | 16530     | 48.5       | -25.5  | 74         | 42.89    | 41.47    | 20.91  | 56.77  | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11020     | 43.68      | -30.32 | 74         | 47.89    | 37.91    | 16.94  | 59.06  | 100    | 0       | P       | V       |
|                                      |                                                                                             | 16530     | 48.52      | -25.48 | 74         | 42.91    | 41.47    | 20.91  | 56.77  | 100    | 0       | P       | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |                                                                                             | 11100     | 43.73      | -30.27 | 74         | 47.6     | 37.96    | 17.01  | 58.84  | 100    | 0       | P       | H       |
|                                      |                                                                                             | 16650     | 49.57      | -24.43 | 74         | 43.55    | 41.71    | 20.99  | 56.68  | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11100     | 43.22      | -30.78 | 74         | 47.09    | 37.96    | 17.01  | 58.84  | 100    | 0       | P       | V       |
|                                      |                                                                                             | 16650     | 49.89      | -24.11 | 74         | 43.87    | 41.71    | 20.99  | 56.68  | 100    | 0       | P       | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |                                                                                             | 11340     | 44.62      | -29.38 | 74         | 47.52    | 38.1     | 17.23  | 58.23  | 100    | 0       | P       | H       |
|                                      |                                                                                             | 17010     | 50.07      | -23.93 | 74         | 42.87    | 42.39    | 21.22  | 56.41  | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11340     | 44.38      | -29.62 | 74         | 47.28    | 38.1     | 17.23  | 58.23  | 100    | 0       | P       | V       |
|                                      |                                                                                             | 17010     | 50.3       | -23.7  | 74         | 43.1     | 42.39    | 21.22  | 56.41  | 100    | 0       | P       | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 3 5470~5725MHz

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

| WIFI                                   | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 ) |
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                                                             | 5469.84   | 60.33      | -13.67 | 74         | 46.99    | 35.05    | 11.86  | 33.57  | 204    | 339     | P       | H       |
|                                        |                                                                                             | 5469.36   | 48.23      | -5.77  | 54         | 34.89    | 35.05    | 11.86  | 33.57  | 204    | 339     | A       | H       |
|                                        | *                                                                                           | 5530      | 96.1       | -      | -          | 82.9     | 35.11    | 11.92  | 33.83  | 204    | 339     | P       | H       |
|                                        | *                                                                                           | 5530      | 86.66      | -      | -          | 73.46    | 35.11    | 11.92  | 33.83  | 204    | 339     | A       | H       |
|                                        |                                                                                             | 5754.44   | 57.68      | -16.32 | 74         | 44.26    | 35.26    | 12.33  | 34.17  | 204    | 339     | P       | H       |
|                                        |                                                                                             | 5758.6    | 44.62      | -9.38  | 54         | 31.23    | 35.26    | 12.33  | 34.2   | 204    | 339     | A       | H       |
|                                        |                                                                                             | 5458.96   | 61.58      | -12.42 | 74         | 48.32    | 35.03    | 11.8   | 33.57  | 209    | 14      | P       | V       |
|                                        |                                                                                             | 5469.04   | 49.02      | -4.98  | 54         | 35.68    | 35.05    | 11.86  | 33.57  | 209    | 14      | A       | V       |
|                                        | *                                                                                           | 5530      | 97.67      | -      | -          | 84.47    | 35.11    | 11.92  | 33.83  | 209    | 14      | P       | V       |
|                                        | *                                                                                           | 5530      | 88.27      | -      | -          | 75.07    | 35.11    | 11.92  | 33.83  | 209    | 14      | A       | V       |
|                                        |                                                                                             | 5754.28   | 57.05      | -16.95 | 74         | 43.63    | 35.26    | 12.33  | 34.17  | 209    | 14      | P       | V       |
|                                        |                                                                                             | 5755.16   | 44.57      | -9.43  | 54         | 31.15    | 35.26    | 12.33  | 34.17  | 209    | 14      | A       | V       |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 5452.24   | 57.57      | -16.43 | 74         | 44.31    | 35.03    | 11.8   | 33.57  | 101    | 341     | P       | H       |
|                                        |                                                                                             | 5400.08   | 44.93      | -9.07  | 54         | 31.62    | 34.96    | 11.74  | 33.39  | 101    | 341     | A       | H       |
|                                        | *                                                                                           | 5610      | 94.9       | -      | -          | 81.74    | 35.16    | 12.04  | 34.04  | 101    | 341     | P       | H       |
|                                        | *                                                                                           | 5610      | 84.9       | -      | -          | 71.74    | 35.16    | 12.04  | 34.04  | 101    | 341     | A       | H       |
|                                        |                                                                                             | 5759.72   | 57.95      | -16.05 | 74         | 44.56    | 35.26    | 12.33  | 34.2   | 101    | 341     | P       | H       |
|                                        |                                                                                             | 5758.92   | 44.68      | -9.32  | 54         | 31.29    | 35.26    | 12.33  | 34.2   | 101    | 341     | A       | H       |
|                                        |                                                                                             | 5405.04   | 58.75      | -15.25 | 74         | 45.44    | 34.96    | 11.74  | 33.39  | 233    | 8       | P       | V       |
|                                        |                                                                                             | 5377.04   | 44.99      | -9.01  | 54         | 31.65    | 34.91    | 11.71  | 33.28  | 233    | 8       | A       | V       |
|                                        | *                                                                                           | 5610      | 96.32      | -      | -          | 83.16    | 35.16    | 12.04  | 34.04  | 233    | 8       | P       | V       |
|                                        | *                                                                                           | 5610      | 86.11      | -      | -          | 72.95    | 35.16    | 12.04  | 34.04  | 233    | 8       | A       | V       |
|                                        |                                                                                             | 5737.72   | 58.08      | -15.92 | 74         | 44.75    | 35.24    | 12.26  | 34.17  | 233    | 8       | P       | V       |
|                                        |                                                                                             | 5761.48   | 44.79      | -9.21  | 54         | 31.4     | 35.26    | 12.33  | 34.2   | 233    | 8       | A       | V       |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 3 5470~5725MHz

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

| WIFI                                   | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | 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) |
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                                                             | 11060     | 44.18      | -29.82 | 74         | 48.2   | 37.94    | 16.97  | 58.93  | 100    | 0       | P     | H     |
|                                        |                                                                                             | 16590     | 48.52      | -25.48 | 74         | 42.72  | 41.57    | 20.96  | 56.73  | 100    | 0       | P     | H     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                                                             | 11060     | 43.02      | -30.98 | 74         | 47.04  | 37.94    | 16.97  | 58.93  | 100    | 0       | P     | V     |
|                                        |                                                                                             | 16590     | 48.45      | -25.55 | 74         | 42.65  | 41.57    | 20.96  | 56.73  | 100    | 0       | P     | V     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 11220     | 44.45      | -29.55 | 74         | 47.84  | 38.03    | 17.12  | 58.54  | 100    | 0       | P     | H     |
|                                        |                                                                                             | 16830     | 50.19      | -23.81 | 74         | 43.55  | 42.06    | 21.12  | 56.54  | 100    | 0       | P     | H     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                                                             | 11220     | 43.6       | -30.4  | 74         | 46.99  | 38.03    | 17.12  | 58.54  | 100    | 0       | P     | V     |
|                                        |                                                                                             | 16830     | 50.84      | -23.16 | 74         | 44.2   | 42.06    | 21.12  | 56.54  | 100    | 0       | P     | V     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## 15E Band 3 Straddle Channel

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

| WIFI                                                                                                                                                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 144<br>5720MHz                                                                                                                                | *    | 5720      | 98.25      | -      | -          | 84.91    | 35.23    | 12.26  | 34.15  | 385    | 22      | P       | H       |
|                                                                                                                                                             | *    | 5720      | 87.4       | -      | -          | 74.06    | 35.23    | 12.26  | 34.15  | 385    | 22      | A       | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             | *    | 5720      | 98.65      | -      | -          | 85.31    | 35.23    | 12.26  | 34.15  | 101    | 299     | P       | V       |
|                                                                                                                                                             | *    | 5720      | 87.5       | -      | -          | 74.16    | 35.23    | 12.26  | 34.15  | 101    | 299     | A       | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| <b>Remark</b> <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> </ol> |      |           |            |        |            |          |          |        |        |        |         |         |         |

## 15E Band 3 Straddle Channel

## WIFI 802.11a (Harmonic @ 3m)

| WIFI                                                                                                                                                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 144<br>5720MHz                                                                                                                                |      | 11440     | 44.52      | -29.48 | 74         | 46.98    | 38.16    | 17.35  | 57.97  | 100    | 0       | P       | H       |
|                                                                                                                                                             |      | 17160     | 50.51      | -23.49 | 74         | 43.42    | 42.27    | 21.32  | 56.5   | 100    | 0       | P       | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      | 11440     | 44.64      | -29.36 | 74         | 47.1     | 38.16    | 17.35  | 57.97  | 100    | 0       | P       | V       |
|                                                                                                                                                             |      | 17160     | 50.79      | -23.21 | 74         | 43.7     | 42.27    | 21.32  | 56.5   | 100    | 0       | P       | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| <b>Remark</b> <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> </ol> |      |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 3 Straddle Channel

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

| WIFI                                                                                                                                                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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>HT20<br>CH 144<br>5720MHz                                                                                                                        | *    | 5720      | 96.29      | -      | -          | 82.95    | 35.23    | 12.26  | 34.15  | 102    | 353     | P       | H       |
|                                                                                                                                                             | *    | 5720      | 85.96      | -      | -          | 72.62    | 35.23    | 12.26  | 34.15  | 102    | 353     | A       | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             | *    | 5720      | 99.98      | -      | -          | 86.64    | 35.23    | 12.26  | 34.15  | 239    | 24      | P       | V       |
|                                                                                                                                                             | *    | 5720      | 89.34      | -      | -          | 76       | 35.23    | 12.26  | 34.15  | 239    | 24      | A       | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| <b>Remark</b> <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> </ol> |      |           |            |        |            |          |          |        |        |        |         |         |         |

## 15E Band 3 Straddle Channel

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                                                                                                                                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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>HT20<br>CH 144<br>5720MHz                                                                                                                        |      | 11440     | 45.67      | -28.33 | 74         | 48.13    | 38.16    | 17.35  | 57.97  | 100    | 0       | P       | H       |
|                                                                                                                                                             |      | 17160     | 50.14      | -23.86 | 74         | 43.05    | 42.27    | 21.32  | 56.5   | 100    | 0       | P       | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      | 11440     | 44.18      | -29.82 | 74         | 46.64    | 38.16    | 17.35  | 57.97  | 100    | 0       | P       | V       |
|                                                                                                                                                             |      | 17160     | 50.42      | -23.58 | 74         | 43.33    | 42.27    | 21.32  | 56.5   | 100    | 0       | P       | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| <b>Remark</b> <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> </ol> |      |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 3 Straddle Channel

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

| WIFI                                                                                                                                                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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>HT40<br>CH 142<br>5710MHz                                                                                                                        | *    | 5710      | 95.49      | -      | -          | 82.16    | 35.22    | 12.26  | 34.15  | 101    | 349     | P       | H       |
|                                                                                                                                                             | *    | 5710      | 85.59      | -      | -          | 72.26    | 35.22    | 12.26  | 34.15  | 101    | 349     | A       | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             | *    | 5710      | 95.08      | -      | -          | 81.75    | 35.22    | 12.26  | 34.15  | 101    | 58      | P       | V       |
|                                                                                                                                                             | *    | 5710      | 86.21      | -      | -          | 72.88    | 35.22    | 12.26  | 34.15  | 101    | 58      | A       | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| <b>Remark</b> <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> </ol> |      |           |            |        |            |          |          |        |        |        |         |         |         |

## 15E Band 3 Straddle Channel

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                                                                                                                                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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>HT40<br>CH 142<br>5710MHz                                                                                                                        |      | 11420     | 43.85      | -30.15 | 74         | 46.41    | 38.15    | 17.31  | 58.02  | 100    | 0       | P       | H       |
|                                                                                                                                                             |      | 17130     | 50.43      | -23.57 | 74         | 43.32    | 42.29    | 21.3   | 56.48  | 100    | 0       | P       | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                                                                             |      | 11420     | 44.63      | -29.37 | 74         | 47.19    | 38.15    | 17.31  | 58.02  | 100    | 0       | P       | V       |
|                                                                                                                                                             |      | 17130     | 50.29      | -23.71 | 74         | 43.18    | 42.29    | 21.3   | 56.48  | 100    | 0       | P       | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                                                                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| <b>Remark</b> <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> </ol> |      |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E Band 3 Straddle Channel

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

| WIFI                                                                                                      | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 ) |
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz                                                                    | *    | 5690      | 91.54      | -      | -          | 78.27    | 35.21    | 12.18  | 34.12  | 216    | 339     | P       | H       |
|                                                                                                           | *    | 5690      | 82.32      | -      | -          | 69.05    | 35.21    | 12.18  | 34.12  | 216    | 339     | A       | H       |
|                                                                                                           |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                           |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                           |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                           |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                           | *    | 5690      | 91.75      | -      | -          | 78.48    | 35.21    | 12.18  | 34.12  | 297    | 290     | P       | V       |
|                                                                                                           | *    | 5690      | 82.31      | -      | -          | 69.04    | 35.21    | 12.18  | 34.12  | 297    | 290     | A       | V       |
|                                                                                                           |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                           |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                           |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                           |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| <b>Remark</b> 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |      |           |            |        |            |          |          |        |        |        |         |         |         |

## 15E Band 3 Straddle Channel

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

| WIFI                                                                                                      | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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 ) |
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz                                                                    |      | 11380     | 44.74      | -29.26 | 74         | 47.44    | 38.13    | 17.27  | 58.1   | 100    | 0       | P       | H       |
|                                                                                                           |      | 17070     | 50.43      | -23.57 | 74         | 43.25    | 42.35    | 21.27  | 56.44  | 100    | 0       | P       | H       |
|                                                                                                           |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                           |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                                                                                           |      | 11380     | 44.36      | -29.64 | 74         | 47.06    | 38.13    | 17.27  | 58.1   | 100    | 0       | P       | V       |
|                                                                                                           |      | 17070     | 50.4       | -23.6  | 74         | 43.22    | 42.35    | 21.27  | 56.44  | 100    | 0       | P       | V       |
|                                                                                                           |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                                                                                           |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| <b>Remark</b> 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |      |           |            |        |            |          |          |        |        |        |         |         |         |

## 15E Emission below 1GHz

### WIFI 802.11a (LF @ 3m)

[illegible]

**15E Emission below 1GHz**  
**WIFI 802.11n HT20 (LF @ 3m)**

[illegible]

**15E Emission below 1GHz**  
**WIFI 802.11n HT40 (LF @ 3m)**

[illegible]

**15E Emission below 1GHz**  
**WIFI 802.11ac VHT80 (LF @ 3m)**

[illegible]



**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 per 15.209(c). |
| !   | Test result is <b>over limit</b> line.                                                                                                                                 |
| P/A | <b>Peak</b> or <b>Average</b>                                                                                                                                          |
| H/V | <b>Horizontal</b> or <b>Vertical</b>                                                                                                                                   |



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

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | 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. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

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

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable 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) + Cable 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 C. Radiated Spurious Emission Plots

|                 |                                 |                     |         |
|-----------------|---------------------------------|---------------------|---------|
| Test Engineer : | Wei Chen, Ken Wu and James Chiu | Temperature :       | 21~23°C |
|                 |                                 | Relative Humidity : | 60~63%  |

### 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                                                                                                                                          | Vertical                                                                                                                                          |
| Peak | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>    | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz – Low channel location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal is a blue line with a peak at approximately 5110 MHz, reaching about 58.5 dBuV/m. A vertical blue line marks the peak at 5110 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal is a blue line with a peak at approximately 5110 MHz, reaching about 58.5 dBuV/m. A vertical blue line marks the peak at 5110 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is a blue line that remains below the limit, peaking at approximately 5110 MHz, reaching about 43.9 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p>               | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is a blue line that remains below the limit, peaking at approximately 5110 MHz, reaching about 43.9 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p>               |

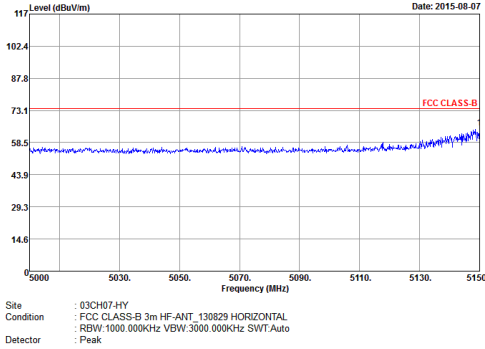
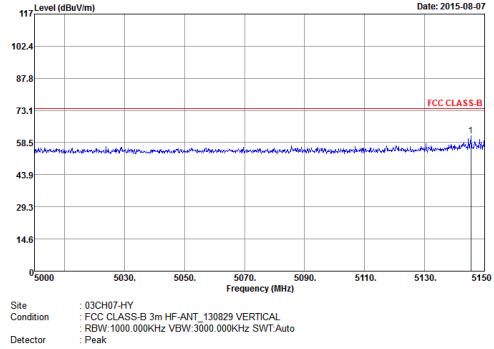
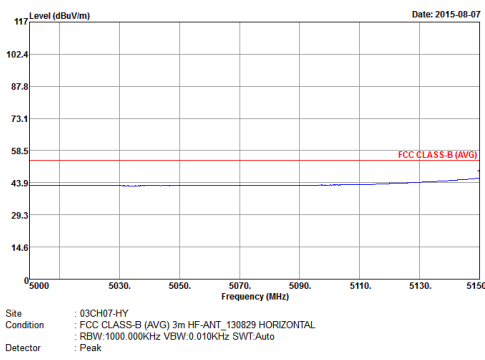
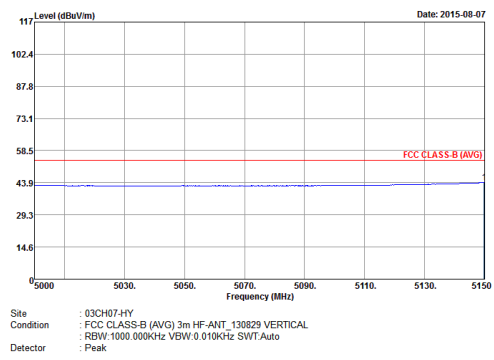


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - High channel location                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal is a noisy blue line that remains below the limit. A peak is marked at 5420 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Peak</p>           | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal is a noisy blue line that remains below the limit. A peak is marked at 5420 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Peak</p>           |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is a smooth blue line that remains below the limit. A peak is marked at 5420 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is a smooth blue line that remains below the limit. A peak is marked at 5420 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Peak</p> |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                            |                                                                                                                                                                                                             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz                                                                                                                                                                                          |                                                                                                                                                                                                             |
| 1    | Horizontal                                                                                                                                                                                                    | Vertical                                                                                                                                                                                                    |
| Peak | <div><p>Level (dBuV/m)</p><p>Date: 2015-08-07</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT: Auto<br/>Detector : Peak</p></div>    | <div><p>Level (dBuV/m)</p><p>Date: 2015-08-07</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT: Auto<br/>Detector : Peak</p></div>    |
| Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2015-08-07</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000KHz VBW: 0.010KHz SWT: Auto<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2015-08-07</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000KHz VBW: 0.010KHz SWT: Auto<br/>Detector : Peak</p></div> |

**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                                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                                  |
| <b>Peak</b> |  <p>Site : 03CH07-HY<br/> Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/> RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Detector : Peak</p>      |  <p>Site : 03CH07-HY<br/> Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/> RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Detector : Peak</p>      |
| <b>Avg.</b> |  <p>Site : 03CH07-HY<br/> Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/> RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/> Detector : Peak</p> |  <p>Site : 03CH07-HY<br/> Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/> RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/> Detector : Peak</p> |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH44 5220MHz - Low channel location                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                           | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Peak | <p>Horizontal Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) from 5000 to 5150 MHz. The plot shows a blue line representing the measured signal and a red line representing the FCC CLASS-B limit. The measured signal is below the limit. The plot is dated 2015-08-07.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          | <p>Vertical Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) from 5000 to 5150 MHz. The plot shows a blue line representing the measured signal and a red line representing the FCC CLASS-B limit. The measured signal is below the limit. The plot is dated 2015-08-07.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          |
| Avg. | <p>Horizontal Avg. Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) from 5000 to 5150 MHz. The plot shows a blue line representing the measured signal and a red line representing the FCC CLASS-B (AVG) limit. The measured signal is below the limit. The plot is dated 2015-08-07.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> | <p>Vertical Avg. Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) from 5000 to 5150 MHz. The plot shows a blue line representing the measured signal and a red line representing the FCC CLASS-B (AVG) limit. The measured signal is below the limit. The plot is dated 2015-08-07.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH44 5220MHz - High channel location                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at approximately 73.1 dBuV/m. A blue line shows the measured signal, with a peak labeled '1' at approximately 5355 MHz reaching about 58.5 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at approximately 73.1 dBuV/m. A blue line shows the measured signal, with a peak labeled '1' at approximately 5355 MHz reaching about 58.5 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at approximately 58.5 dBuV/m. A blue line shows the measured signal, with a peak labeled '1' at approximately 5355 MHz reaching about 43.9 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at approximately 58.5 dBuV/m. A blue line shows the measured signal, with a peak labeled '1' at approximately 5355 MHz reaching about 43.9 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> |

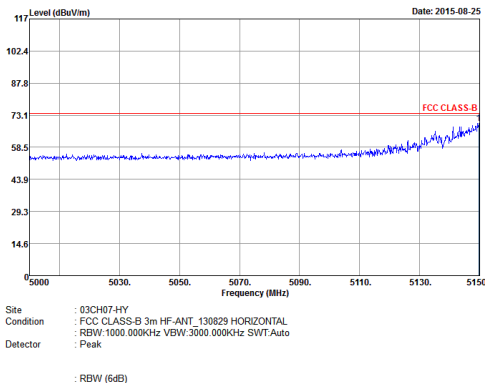
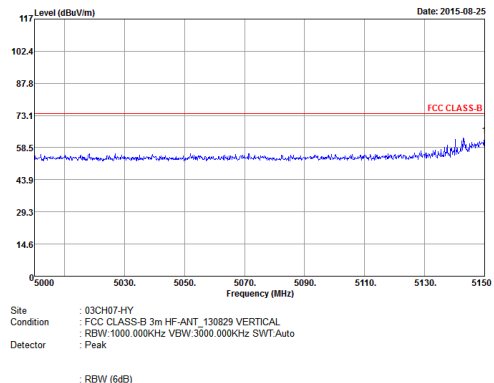
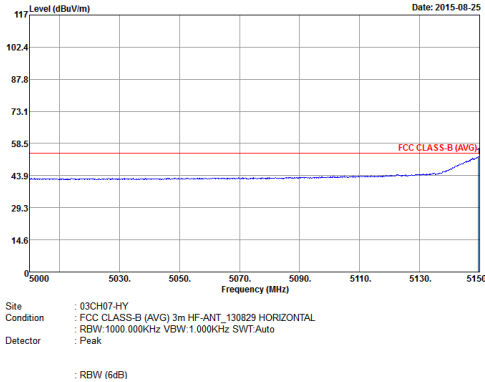
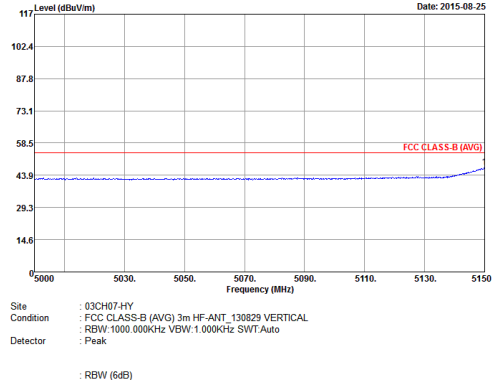


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH48 5240MHz - Low channel location                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The plot shows a blue line representing the measured signal and a red line for the FCC CLASS-B limit. The signal is below the limit across the entire frequency range from 5000 to 5150 MHz. A sharp peak is visible at approximately 5110 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The plot shows a blue line representing the measured signal and a red line for the FCC CLASS-B limit. The signal is below the limit across the entire frequency range from 5000 to 5150 MHz. A sharp peak is visible at approximately 5110 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak</p> |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The plot shows a blue line representing the measured signal and a red line for the FCC CLASS-B (AVG) limit. The signal is below the limit across the entire frequency range from 5000 to 5150 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 0.010kHz SWT: Auto<br/>Detector : Peak</p>                                           | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The plot shows a blue line representing the measured signal and a red line for the FCC CLASS-B (AVG) limit. The signal is below the limit across the entire frequency range from 5000 to 5150 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW: 1000.000kHz VBW: 0.010kHz SWT: Auto<br/>Detector : Peak</p>                                           |

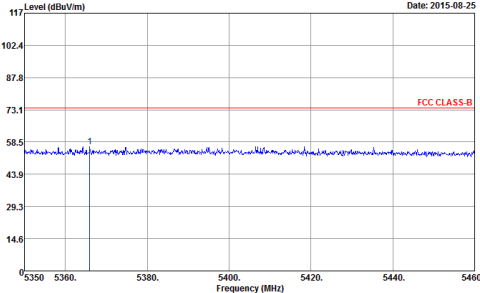
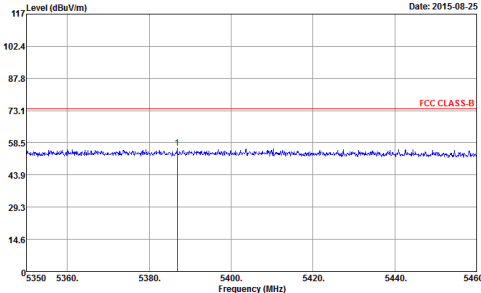
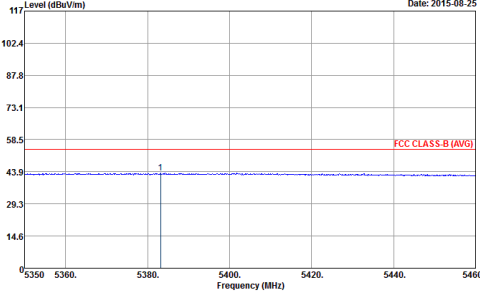
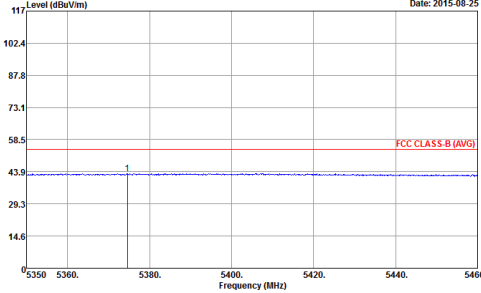


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                       |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH48 5240MHz - High channel location                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                       |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                | Vertical                                                                                                                                                                                                                                                                                                                                                                              |
| Peak | <p>Horizontal Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a red line for FCC CLASS-B and a blue line for the measured signal. The measured signal is below the FCC CLASS-B limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Peak</p>                | <p>Vertical Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a red line for FCC CLASS-B and a blue line for the measured signal. The measured signal is below the FCC CLASS-B limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Peak</p>                |
| Avg. | <p>Horizontal Avg. Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a red line for FCC CLASS-B (AVG) and a blue line for the measured signal. The measured signal is below the FCC CLASS-B (AVG) limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Peak</p> | <p>Vertical Avg. Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a red line for FCC CLASS-B (AVG) and a blue line for the measured signal. The measured signal is below the FCC CLASS-B (AVG) limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Peak</p> |

**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 - Low channel location                                                                                                                                                                                                            |                                                                                                                                                                                                                                                            |
| 1           | Horizontal                                                                                                                                                                                                                                                  | Vertical                                                                                                                                                                                                                                                   |
| <b>Peak</b> |  <p>Site : 03CH07-HY<br/> Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/> RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Detector : Peak<br/> : RBW (6dB)</p>      |  <p>Site : 03CH07-HY<br/> Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/> RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/> Detector : Peak<br/> : RBW (6dB)</p>      |
| <b>Avg.</b> |  <p>Site : 03CH07-HY<br/> Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/> RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/> Detector : Peak<br/> : RBW (6dB)</p> |  <p>Site : 03CH07-HY<br/> Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/> RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/> Detector : Peak<br/> : RBW (6dB)</p> |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                           |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH38 5190MHz - High channel location                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                           |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                                                                                                                                                  |
| Peak | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2015-08-25</p><p>FCC CLASS-B</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>: RBW (6dB)</p></div>           | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2015-08-25</p><p>FCC CLASS-B</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>: RBW (6dB)</p></div>           |
| Avg. | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2015-08-25</p><p>FCC CLASS-B (AVG)</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>: RBW (6dB)</p></div> | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2015-08-25</p><p>FCC CLASS-B (AVG)</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>: RBW (6dB)</p></div> |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH46 5230MHz - Low channel location                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is significantly below this limit, fluctuating around 58.5 dBuV/m. A small peak is visible at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT: Auto</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is significantly below this limit, fluctuating around 58.5 dBuV/m. A small peak is visible at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT: Auto</p> |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is very close to this limit, fluctuating around 58.5 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>RBW: 1000.000KHz VBW: 1.000KHz SWT: Auto</p>                                   | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is very close to this limit, fluctuating around 58.5 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>RBW: 1000.000KHz VBW: 1.000KHz SWT: Auto</p>                                   |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                  |                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH46 5230MHz - High channel location                                                                                                   |                                                                                                                                                   |
| 1+2  | Horizontal                                                                                                                                          | Vertical                                                                                                                                          |
| Peak | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Peak</p>    | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Peak</p>    |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Peak</p> |



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

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - Low channel location                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The blue trace shows the measured signal, which is below the limit. A peak is marked at 5150 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>: RBW (6dB)</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The blue trace shows the measured signal, which is below the limit. A peak is marked at 5150 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>: RBW (6dB)</p> |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The blue trace shows the average signal, which is below the limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:2.000KHz SWT:Auto<br/>Detector : Peak<br/>: RBW (6dB)</p>                       | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The blue trace shows the average signal, which is below the limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:2.000KHz SWT:Auto<br/>Detector : Peak<br/>: RBW (6dB)</p>                       |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                   |                                                                                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - High channel location                                                                                                                                                  |                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                           | Vertical                                                                                                                                                                                           |
| Peak | <div><p>Level (dBuV/m)</p><p>Date: 2015-08-25</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>RBW (6dB)</p></div>       | <div><p>Level (dBuV/m)</p><p>Date: 2015-08-25</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>RBW (6dB)</p></div>       |
| Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2015-08-25</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>RBW (6dB)</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2015-08-25</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>RBW (6dB)</p></div> |



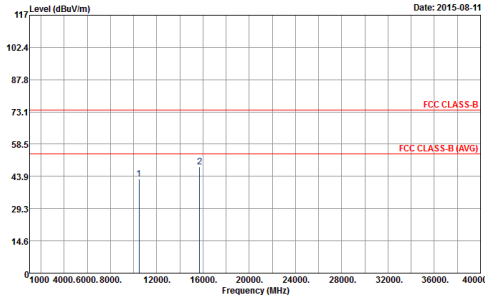
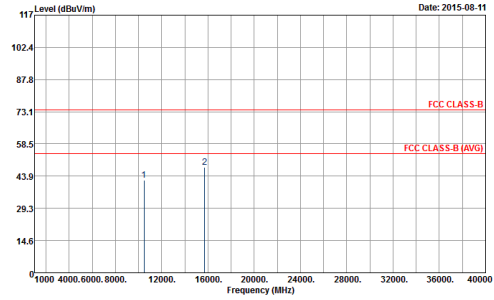
## Band 1 - 5150~5250MHz

## 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 : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                    |                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH44 5220MHz                                                                                 |                                                                                                    |
| 1            | Horizontal                                                                                           | Vertical                                                                                           |
| Peak<br>Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |



| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH48 5240MHz                                                                                                                                                                   |                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |



**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                                                                                           |
| Peak<br>Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

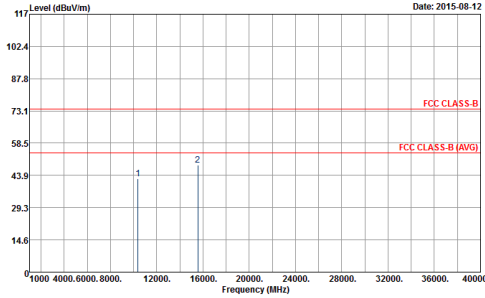
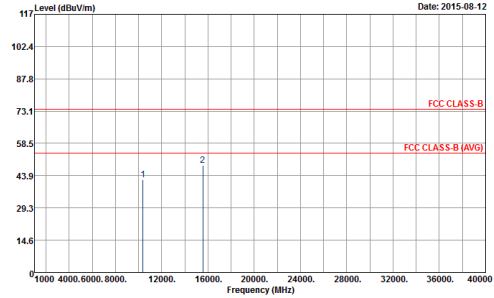
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                    |                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH44 5220MHz                                                                            |                                                                                                    |
| 1            | Horizontal                                                                                           | Vertical                                                                                           |
| Peak<br>Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

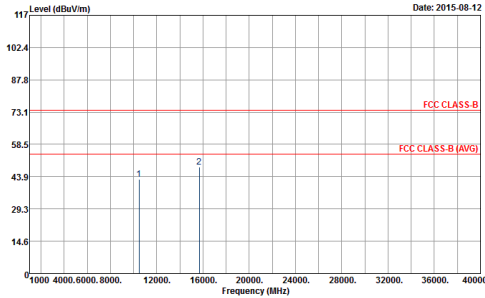
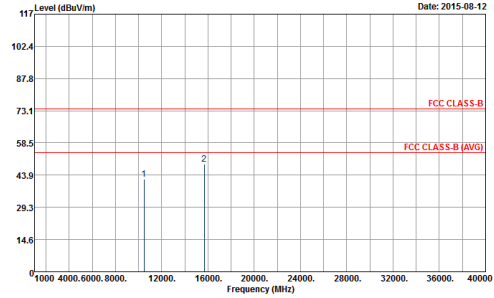


| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                        |                                                                                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH48 5240MHz                                                                                                                                                                |                                                                                                                                                                                        |
| 1            | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                               |
| Peak<br>Avg. | <div><p>Level (dBuV/m) <span style="float: right;">Date: 2015-08-12</span></p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m) <span style="float: right;">Date: 2015-08-12</span></p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</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 : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                        |                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH46 5230MHz                                                                                                                                                                |                                                                                                                                                                                         |
| 1            | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |



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

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                    |                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH42 5210MHz                                                                          |                                                                                                    |
| 1            | Horizontal                                                                                           | Vertical                                                                                           |
| Peak<br>Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |



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

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 58.5 dBuV/m. The measured signal is shown as a blue line with a peak at 5260 MHz. A vertical line labeled '1' marks the peak. The date is 2015-08-07.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 58.5 dBuV/m. The measured signal is shown as a blue line with a peak at 5260 MHz. A vertical line labeled '1' marks the peak. The date is 2015-08-07.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is shown as a blue line. The date is 2015-08-07.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p>                                                            | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is shown as a blue line. The date is 2015-08-07.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p>                                                            |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - Low channel location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at approximately 73.1 dBuV/m. The measured signal (blue line) is below this limit, with a peak value of 58.5 dBuV/m at 5130 MHz. A vertical blue line marks the peak at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>  | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at approximately 73.1 dBuV/m. The measured signal (blue line) is below this limit, with a peak value of 58.5 dBuV/m at 5130 MHz. A vertical blue line marks the peak at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>  |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at approximately 58.5 dBuV/m. The measured signal (blue line) is below this limit, with an average value of 43.9 dBuV/m. A vertical blue line marks the peak at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at approximately 58.5 dBuV/m. The measured signal (blue line) is below this limit, with an average value of 43.9 dBuV/m. A vertical blue line marks the peak at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - High channel location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at approximately 73.1 dBuV/m. The measured signal is shown as a blue line with a peak at 5430 MHz reaching approximately 58.5 dBuV/m. A vertical blue line marks the peak at 5430 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at approximately 73.1 dBuV/m. The measured signal is shown as a blue line with a peak at 5430 MHz reaching approximately 58.5 dBuV/m. A vertical blue line marks the peak at 5430 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at approximately 58.5 dBuV/m. The measured signal is shown as a blue line with a peak at 5430 MHz reaching approximately 43.9 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p>                                         | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at approximately 58.5 dBuV/m. The measured signal is shown as a blue line with a peak at 5430 MHz reaching approximately 43.9 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p>                                         |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at approximately 73.1 dBuV/m. The measured signal (blue line) is significantly below this limit, fluctuating around 58.5 dBuV/m. The date is 2015-08-06.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>    | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at approximately 73.1 dBuV/m. The measured signal (blue line) is significantly below this limit, fluctuating around 58.5 dBuV/m. The date is 2015-08-06.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at approximately 58.5 dBuV/m. The measured signal (blue line) is very close to this limit, fluctuating around 58.5 dBuV/m. The date is 2015-08-06.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at approximately 58.5 dBuV/m. The measured signal (blue line) is very close to this limit, fluctuating around 58.5 dBuV/m. The date is 2015-08-06.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> |



**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 - Low channel location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is significantly below the limit, fluctuating around 58.5 dBuV/m. A sharp peak is visible at approximately 5010 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is significantly below the limit, fluctuating around 58.5 dBuV/m. A sharp peak is visible at approximately 5010 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p> |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is consistently below the limit, fluctuating around 43.9 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak</p>                                            | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is consistently below the limit, fluctuating around 43.9 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak</p>                                            |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH52 5260MHz - High channel location                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal is shown as a blue line with a peak at approximately 5440 MHz. The date is 2015-08-09.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal is shown as a blue line with a peak at approximately 5440 MHz. The date is 2015-08-09.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is shown as a blue line with a peak at approximately 5440 MHz. The date is 2015-08-09.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is shown as a blue line with a peak at approximately 5440 MHz. The date is 2015-08-09.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                  |                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH60 5300MHz - Low channel location                                                                                                    |                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                          | Vertical                                                                                                                                          |
| Peak | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH60 5300MHz - High channel location                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal is a noisy blue line fluctuating around 58.5 dBuV/m, well below the limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>           | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal is a noisy blue line fluctuating around 58.5 dBuV/m, well below the limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>           |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is a smooth blue line fluctuating around 43.9 dBuV/m, well below the limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is a smooth blue line fluctuating around 43.9 dBuV/m, well below the limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH64 5320MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is below this limit. A peak is labeled '1' at approximately 5355 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is below this limit. A peak is labeled '1' at approximately 5355 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p> |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is below this limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p>                                         | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is below this limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p>                                         |



**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 MHz- Low channel location                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Peak | <p>Horizontal Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a noisy signal with a peak level around 58.5 dBuV/m, well below the FCC CLASS-B limit of 73.1 dBuV/m. A vertical line at 5130 MHz is labeled '1'.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>                 | <p>Vertical Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a noisy signal with a peak level around 58.5 dBuV/m, well below the FCC CLASS-B limit of 73.1 dBuV/m. A vertical line at 5130 MHz is labeled '1'.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>                 |
| Avg. | <p>Horizontal Average Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a noisy signal with an average level around 43.9 dBuV/m, well below the FCC CLASS-B (AVG) limit of 58.5 dBuV/m. A vertical line at 5130 MHz is labeled '1'.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak</p> | <p>Vertical Average Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a noisy signal with an average level around 43.9 dBuV/m, well below the FCC CLASS-B (AVG) limit of 58.5 dBuV/m. A vertical line at 5130 MHz is labeled '1'.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH54 5270 MHz - High channel location                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal is a noisy blue line with a peak labeled '1' at approximately 5375 MHz, reaching about 58.5 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal is a noisy blue line with a peak labeled '1' at approximately 5375 MHz, reaching about 58.5 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is a noisy blue line with a peak labeled '1' at approximately 5375 MHz, reaching about 43.9 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is a noisy blue line with a peak labeled '1' at approximately 5375 MHz, reaching about 43.9 dBuV/m.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH62 5310 MHz - Low channel location                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is below this limit. A peak is marked at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is below this limit. A peak is marked at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is below this limit. A peak is marked at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is below this limit. A peak is marked at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                  |                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH62 5310 MHz - High channel location                                                                                                  |                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                          | Vertical                                                                                                                                          |
| Peak | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>    | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak</p> |



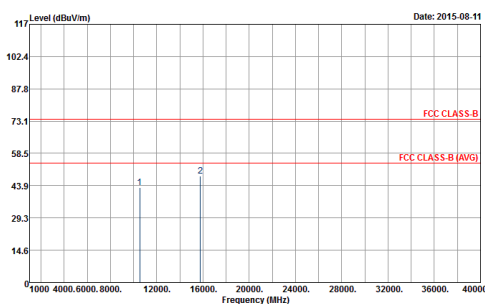
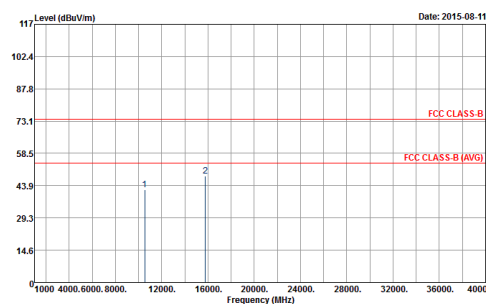
Band 2 5250~5350MHz  
WIFI 802.11ac VHT80 (Band Edge @ 3m)

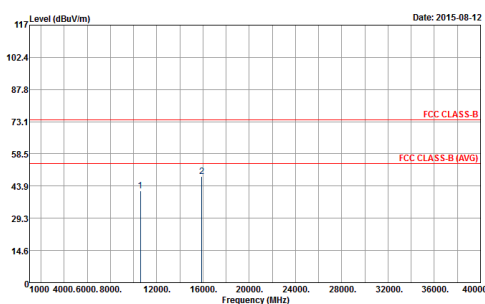
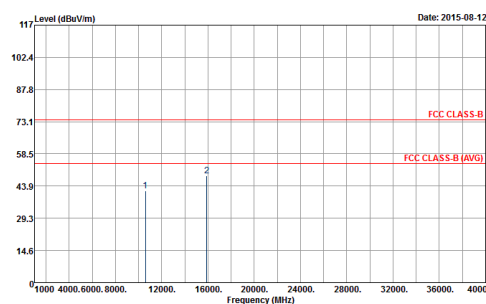
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - Low channel location                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is below this limit. A peak is marked at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>          | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is below this limit. A peak is marked at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>          |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is below this limit. A peak is marked at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5000 to 5150 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is below this limit. A peak is marked at 5130 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - High channel location                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is below this limit, with a peak value of 58.5 dBuV/m at 5350 MHz. The date is 2015-08-10.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is below this limit, with a peak value of 58.5 dBuV/m at 5350 MHz. The date is 2015-08-10.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is below this limit, with a peak value of 58.5 dBuV/m at 5350 MHz. The date is 2015-08-10.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:2.000KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is below this limit, with a peak value of 58.5 dBuV/m at 5350 MHz. The date is 2015-08-10.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:2.000KHz SWT:Auto<br/>Detector : Peak</p> |

**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 : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

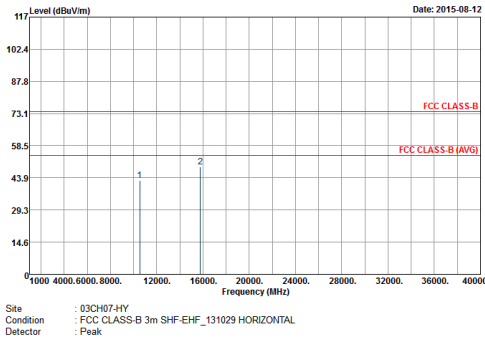
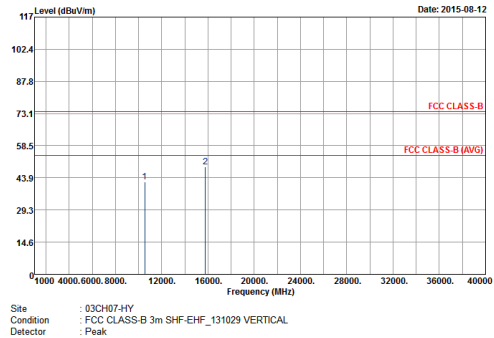
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                        |                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH60 5300MHz                                                                                                                                                                     |                                                                                                                                                                                         |
| 1            | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

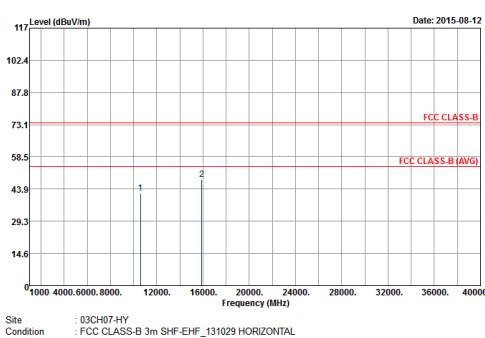
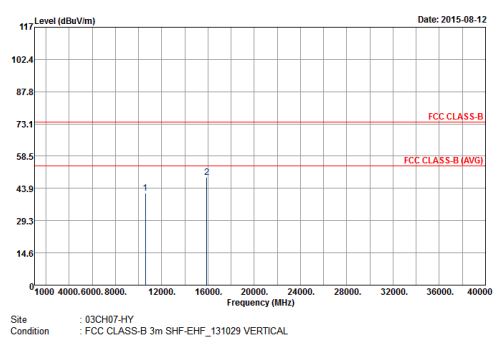


| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                    |                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH64 5320MHz                                                                                 |                                                                                                    |
| 1            | Horizontal                                                                                           | Vertical                                                                                           |
| Peak<br>Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |



**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                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

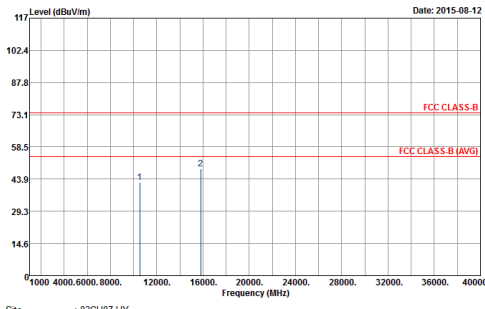
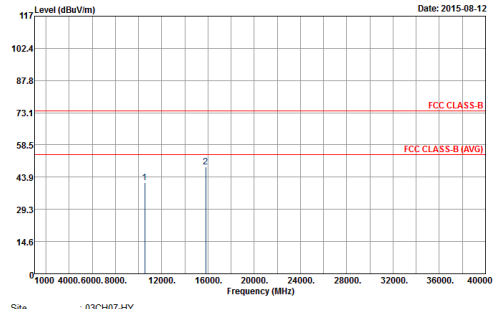
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                        |                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH60 5300MHz                                                                                                                                                                |                                                                                                                                                                                         |
| 1            | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

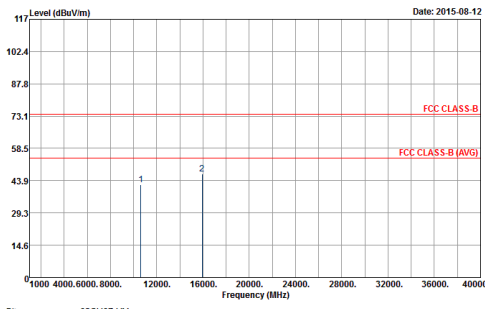
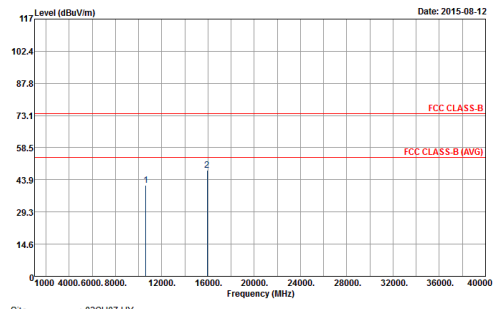


| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                    |                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH64 5320MHz                                                                            |                                                                                                    |
| 1            | Horizontal                                                                                           | Vertical                                                                                           |
| Peak<br>Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |



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

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                      |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH54 5270 MHz                                                                                                                                                             |                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                        |                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH62 5310 MHz                                                                                                                                                               |                                                                                                                                                                                         |
| 1            | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |



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

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                    |                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH58 5290MHz                                                                          |                                                                                                    |
| 1            | Horizontal                                                                                           | Vertical                                                                                           |
| Peak<br>Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |



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

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                  |                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                                                               |                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                          | Vertical                                                                                                                                          |
| Peak | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                  |                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - Low channel location                                                                                                        |                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                          | Vertical                                                                                                                                          |
| Peak | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>    | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - High channel location                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5685 to 5765 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal is a blue line showing a peak at approximately 5740 MHz, reaching about 58.5 dBuV/m. A small peak is labeled '1'.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5685 to 5765 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal is a blue line showing a peak at approximately 5740 MHz, reaching about 58.5 dBuV/m. A small peak is labeled '1'.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5685 to 5765 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is a blue line showing a peak at approximately 5740 MHz, reaching about 43.9 dBuV/m. A small peak is labeled '1'.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 5685 to 5765 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal is a blue line showing a peak at approximately 5740 MHz, reaching about 43.9 dBuV/m. A small peak is labeled '1'.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                  |                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                               |                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                          | Vertical                                                                                                                                          |
| Peak | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>    | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> |



**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                                                                                                                                          | Vertical                                                                                                                                          |
| Peak | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:0.010kHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                  |                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH116 5580MHz - Low channel location                                                                                                   |                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                          | Vertical                                                                                                                                          |
| Peak | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Peak</p>    | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Peak</p>    |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Peak</p> |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                  |                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH16 5580MHz - High channel location                                                                                                   |                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                          | Vertical                                                                                                                                          |
| Peak | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Peak</p>    | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Peak</p>    |
| Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Peak</p> |



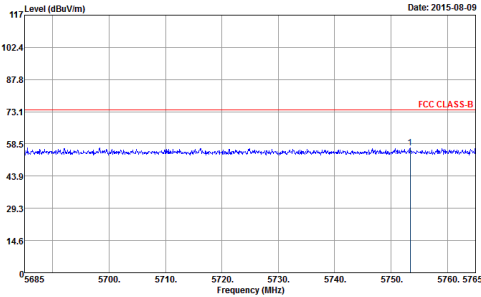
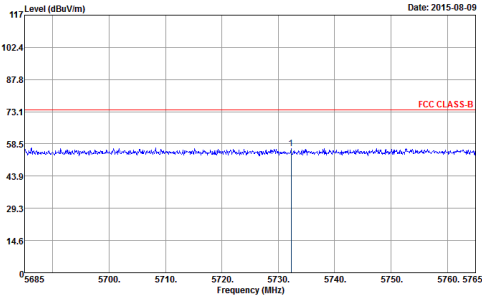
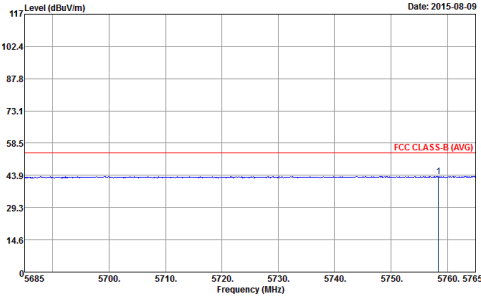
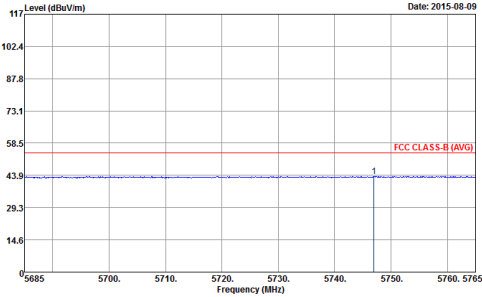
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH140 5700MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The plot shows a peak level of approximately 102.4 dBuV/m at 5700 MHz, dropping to the FCC CLASS-B limit of 73.1 dBuV/m by 5725 MHz. The x-axis ranges from 5685 to 5765 MHz, and the y-axis ranges from 14.6 to 117 dBuV/m. A red line indicates the FCC CLASS-B limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>                          | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The plot shows a peak level of approximately 102.4 dBuV/m at 5700 MHz, dropping to the FCC CLASS-B limit of 73.1 dBuV/m by 5725 MHz. The x-axis ranges from 5685 to 5765 MHz, and the y-axis ranges from 14.6 to 117 dBuV/m. A red line indicates the FCC CLASS-B limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>                          |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization (Average). The plot shows a peak level of approximately 102.4 dBuV/m at 5700 MHz, dropping to the FCC CLASS-B (AVG) limit of 73.1 dBuV/m by 5725 MHz. The x-axis ranges from 5685 to 5765 MHz, and the y-axis ranges from 14.6 to 117 dBuV/m. A red line indicates the FCC CLASS-B (AVG) limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization (Average). The plot shows a peak level of approximately 102.4 dBuV/m at 5700 MHz, dropping to the FCC CLASS-B (AVG) limit of 73.1 dBuV/m by 5725 MHz. The x-axis ranges from 5685 to 5765 MHz, and the y-axis ranges from 14.6 to 117 dBuV/m. A red line indicates the FCC CLASS-B (AVG) limit.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak</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 - Low channel location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5510 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The blue trace shows the measured signal, which is below the limit until approximately 5470 MHz, where it rises sharply to about 102.4 dBuV/m. A peak marker '1' is placed at the start of the rise.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>          | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5510 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The blue trace shows the measured signal, which is below the limit until approximately 5470 MHz, where it rises sharply to about 102.4 dBuV/m. A peak marker '1' is placed at the start of the rise.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>          |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5510 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 73.1 dBuV/m. The blue trace shows the measured signal, which is below the limit until approximately 5470 MHz, where it rises sharply to about 102.4 dBuV/m. A peak marker '1' is placed at the start of the rise.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5510 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 73.1 dBuV/m. The blue trace shows the measured signal, which is below the limit until approximately 5470 MHz, where it rises sharply to about 102.4 dBuV/m. A peak marker '1' is placed at the start of the rise.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto</p> |



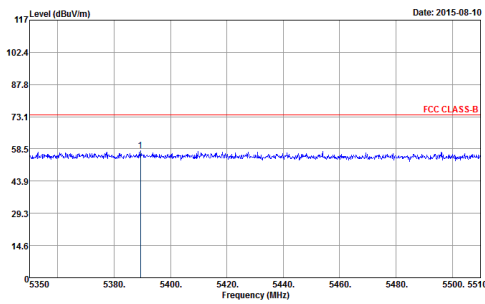
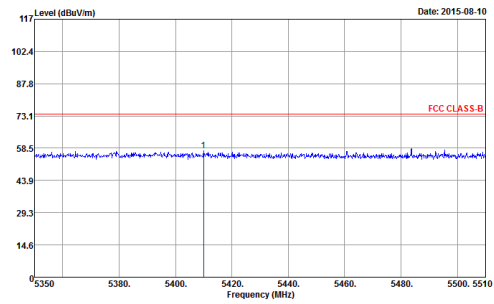
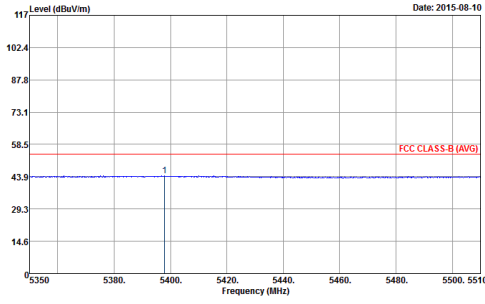
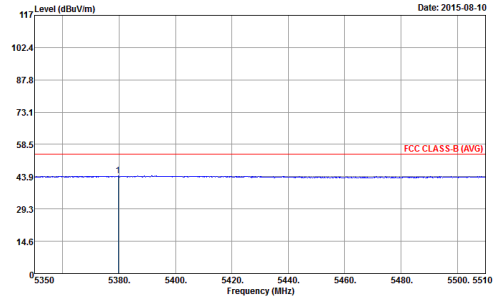
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH102 5510MHz - High channel location                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                                                                                                                                                    |
| Peak | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2015-08-09</p><p>FCC CLASS-B</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT, 130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Peak</p></div>            | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2015-08-09</p><p>FCC CLASS-B</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT, 130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Peak</p></div>            |
| Avg. | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2015-08-09</p><p>FCC CLASS-B (AVG)</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 HORIZONTAL<br/>Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Date: 2015-08-09</p><p>FCC CLASS-B (AVG)</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 VERTICAL<br/>Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Peak</p></div> |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                |                                                                                                                                                                                                 |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH110 5550MHz - Low channel location                                                                                                                                                 |                                                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                                                        | Vertical                                                                                                                                                                                        |
| Peak | <p>Level (dBuV/m)</p> <p>Date: 2015-08-09</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>    | <p>Level (dBuV/m)</p> <p>Date: 2015-08-09</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Level (dBuV/m)</p> <p>Date: 2015-08-09</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m)</p> <p>Date: 2015-08-09</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                         |                                                                                                                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH110 5550MHz - High channel location                                                                                                                                         |                                                                                                                                                                                          |
| 1    | Horizontal                                                                                                                                                                                 | Vertical                                                                                                                                                                                 |
| Peak | <p>Level (dBuV/m) Date: 2015-08-09</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    | <p>Level (dBuV/m) Date: 2015-08-09</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Level (dBuV/m) Date: 2015-08-09</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) Date: 2015-08-09</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak</p> |

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                      |                                                                                                                                                                                                                                        |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH134 5670MHz - Low channel location                                                                                                                                                                                       |                                                                                                                                                                                                                                        |
| 1    | Horizontal                                                                                                                                                                                                                              | Vertical                                                                                                                                                                                                                               |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>      |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>      |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                         |                                                                                                                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH134 5670MHz - High channel location                                                                                                                                         |                                                                                                                                                                                          |
| 1    | Horizontal                                                                                                                                                                                 | Vertical                                                                                                                                                                                 |
| Peak | <p>Level (dBuV/m) Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    | <p>Level (dBuV/m) Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Level (dBuV/m) Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak</p> |



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

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - Low channel location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Peak | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5510 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is below this limit until approximately 5470 MHz, where it rises sharply to about 102.4 dBuV/m. A peak marker '1' is shown at approximately 5470 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5510 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The measured signal (blue line) is below this limit until approximately 5470 MHz, where it rises sharply to about 102.4 dBuV/m. A peak marker '1' is shown at approximately 5470 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak</p>          |
| Avg. | <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5510 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is below this limit until approximately 5470 MHz, where it rises sharply to about 102.4 dBuV/m. A peak marker '1' is shown at approximately 5470 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000KHz VBW:2.000KHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 5350 to 5510 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 58.5 dBuV/m. The measured signal (blue line) is below this limit until approximately 5470 MHz, where it rises sharply to about 102.4 dBuV/m. A peak marker '1' is shown at approximately 5470 MHz.</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000KHz VBW:2.000KHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                         |                                                                                                                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - High channel location                                                                                                                                       |                                                                                                                                                                                          |
| 1    | Horizontal                                                                                                                                                                                 | Vertical                                                                                                                                                                                 |
| Peak | <p>Level (dBuV/m) Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    | <p>Level (dBuV/m) Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Level (dBuV/m) Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Detector : Peak</p> |

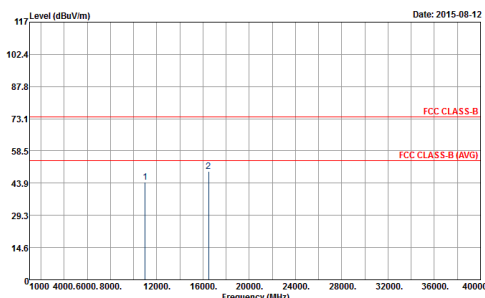
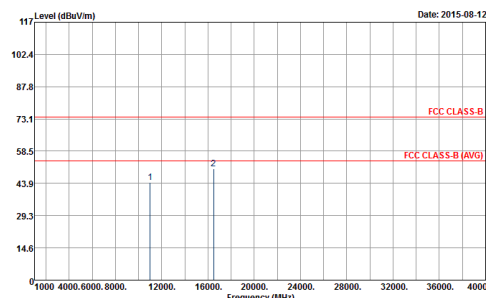


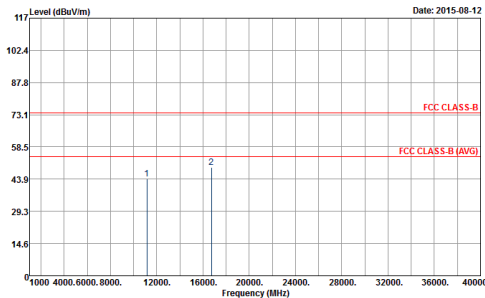
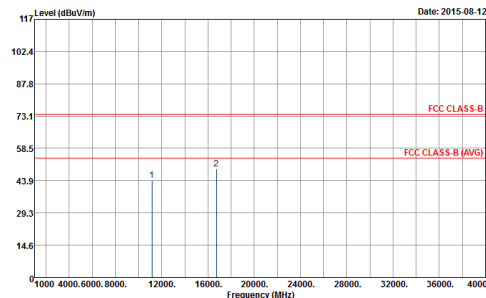
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                         |                                                                                                                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - Low channel location                                                                                                                                        |                                                                                                                                                                                          |
| 1    | Horizontal                                                                                                                                                                                 | Vertical                                                                                                                                                                                 |
| Peak | <p>Level (dBuV/m) Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    | <p>Level (dBuV/m) Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Level (dBuV/m) Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m) Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Detector : Peak</p> |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                |                                                                                                                                                                                                 |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - High channel location                                                                                                                                              |                                                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                                                        | Vertical                                                                                                                                                                                        |
| Peak | <p>Level (dBuV/m)</p> <p>Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    | <p>Level (dBuV/m)</p> <p>Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak</p>    |
| Avg. | <p>Level (dBuV/m)</p> <p>Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Detector : Peak</p> | <p>Level (dBuV/m)</p> <p>Date: 2015-08-10</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:2.000kHz SWT:Auto<br/>Detector : Peak</p> |

**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 : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

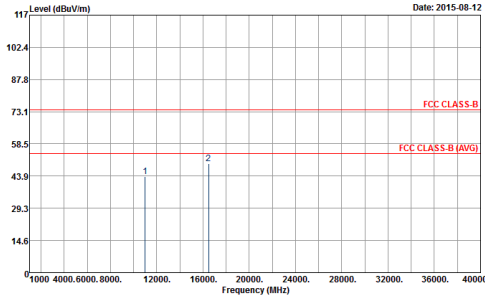
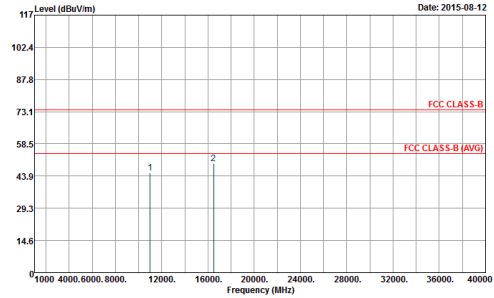
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                        |                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH116 5580MHz                                                                                                                                                                    |                                                                                                                                                                                         |
| 1            | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

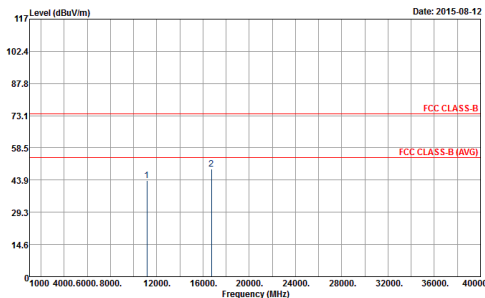
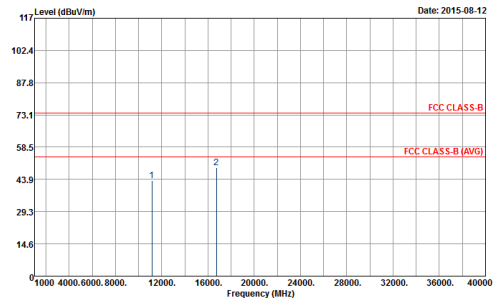


| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                           |                                                                                                                                                           |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH140 5700MHz                                                                                                                                       |                                                                                                                                                           |
| 1            | Horizontal                                                                                                                                                  | Vertical                                                                                                                                                  |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2015-08-12</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2015-08-12</p><p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</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                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                        |                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH116 5580MHz                                                                                                                                                               |                                                                                                                                                                                         |
| 1            | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                           |                                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH140 5700MHz                                                                                                                  |                                                                                                                                           |
| 1            | Horizontal                                                                                                                                  | Vertical                                                                                                                                  |
| Peak<br>Avg. | <p>Level (dBuV/m) Date: 2015-08-12</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> | <p>Level (dBuV/m) Date: 2015-08-12</p> <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |



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

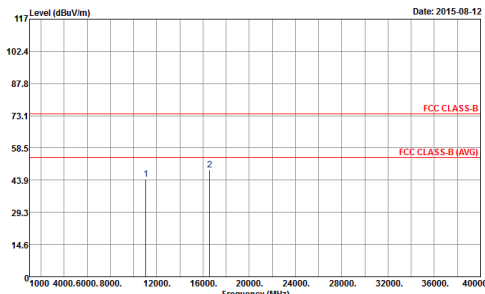
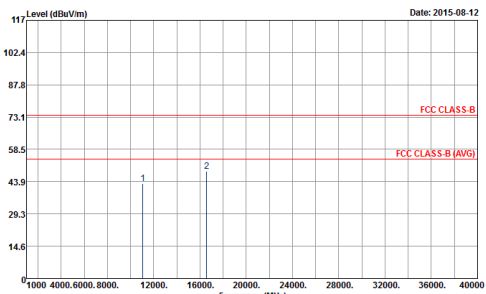
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                    |                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH102 5510MHz                                                                           |                                                                                                    |
| 1            | Horizontal                                                                                           | Vertical                                                                                           |
| Peak<br>Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

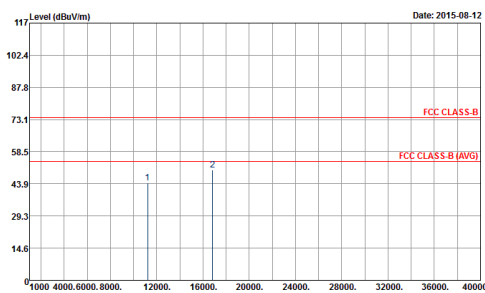
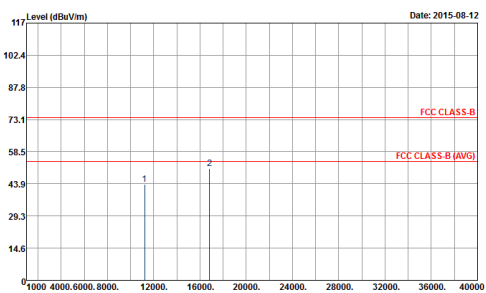
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                    |                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH110 5550MHz                                                                           |                                                                                                    |
| 1            | Horizontal                                                                                           | Vertical                                                                                           |
| Peak<br>Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |



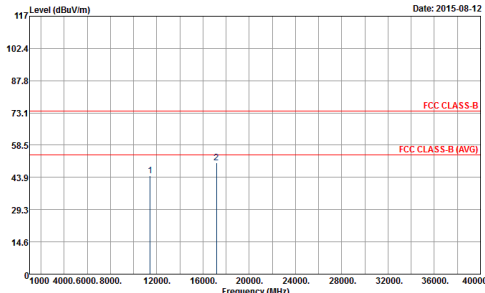
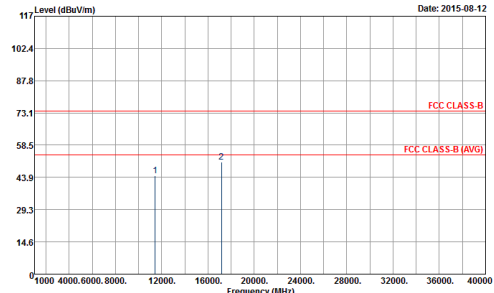
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                    |                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH134 5670MHz                                                                           |                                                                                                    |
| 1            | Horizontal                                                                                           | Vertical                                                                                           |
| Peak<br>Avg. | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> | <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

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

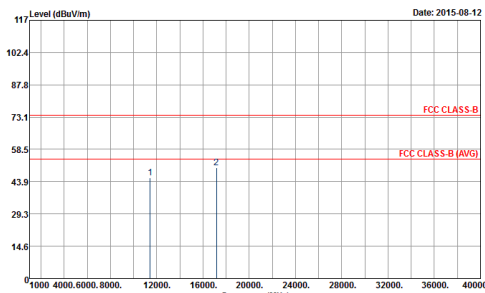
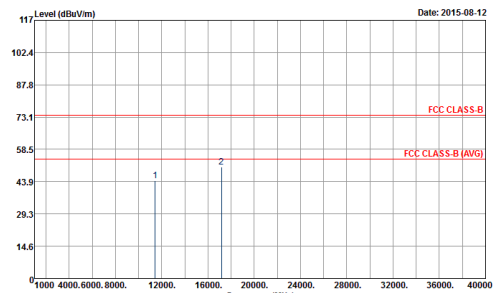
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                        |                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH106 5530MHz                                                                                                                                                             |                                                                                                                                                                                         |
| 1            | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/> Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/> Detector : Peak</p> |  <p>Site : 03CH07-HY<br/> Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/> Detector : Peak</p> |

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                          |                                                                                                                                                                                           |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH122 5610MHz                                                                                                                                                               |                                                                                                                                                                                           |
| 1            | Horizontal                                                                                                                                                                                 | Vertical                                                                                                                                                                                  |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/> Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/> Detector : Peak</p> |  <p>Site : 03CH07-HY<br/> Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/> Detector : Peak</p> |

**Band 3 - Straddle Channel**
**WIFI 802.11a (Harmonic @ 3m)**

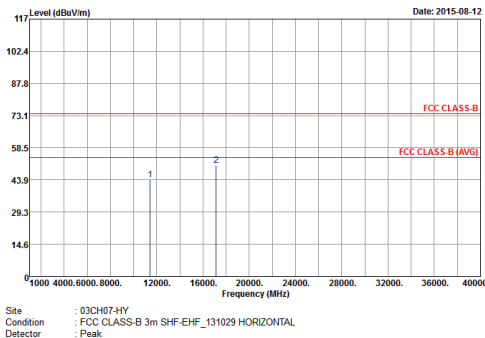
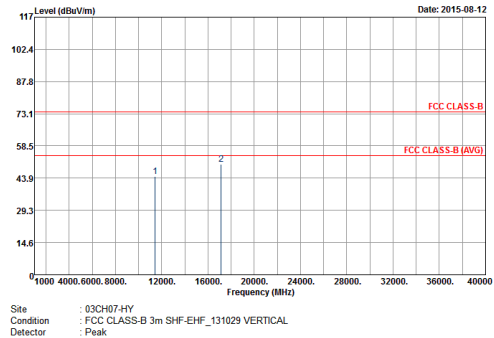
| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                                                  |                                                                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH144 5720MHz                                                                                                                                                                  |                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |

**Band 3 – Straddle Channel**
**WIFI 802.11n HT20 (Harmonic @ 3m)**

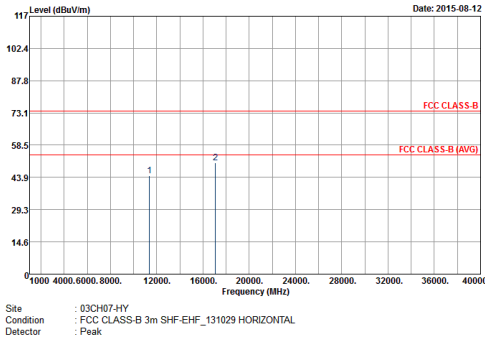
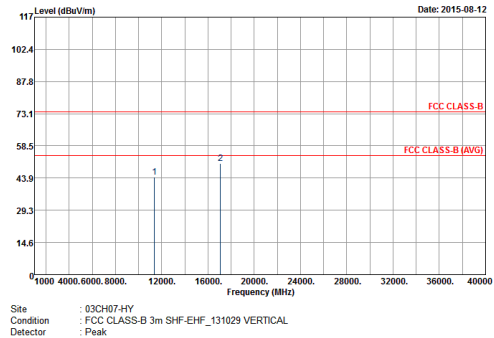
| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                                                    |                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH144 5720MHz                                                                                                                                                               |                                                                                                                                                                                         |
| 1            | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak</p> |



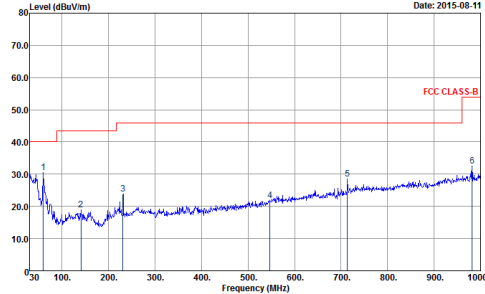
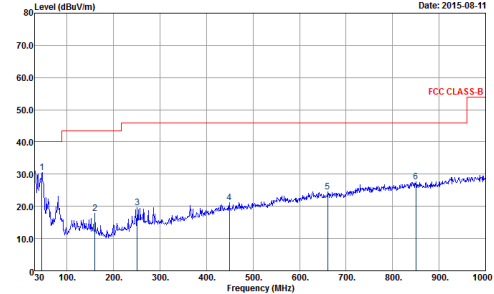
**Band 3 – Straddle Channel**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                             |                                                                                    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH142 5710MHz                                                        |                                                                                    |
| 1            | Horizontal                                                                        | Vertical                                                                           |
| Peak<br>Avg. |  |  |

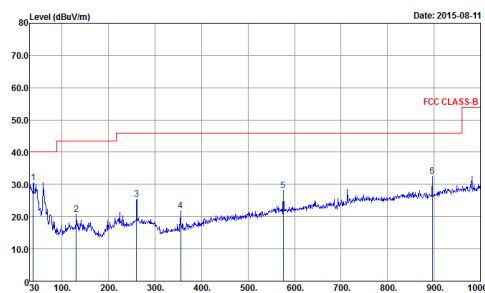
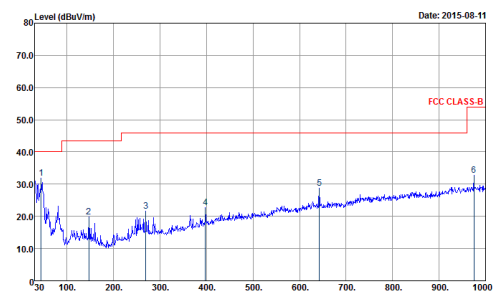
**Band 3 – Straddle Channel**  
**WIFI 802.11ac VHT80 (Harmonic @ 3m)**

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                               |                                                                                      |
|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH138 5690MHz                                                        |                                                                                      |
| 1            | Horizontal                                                                          | Vertical                                                                             |
| Peak<br>Avg. |  |  |

**Emission below 1GHz**  
**5GHz WIFI 802.11a (LF)**

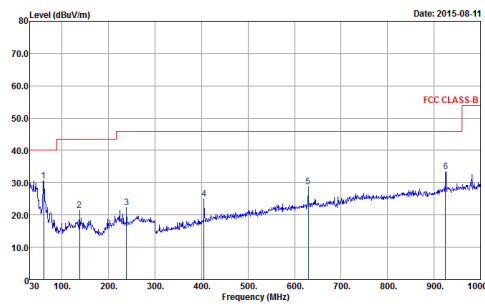
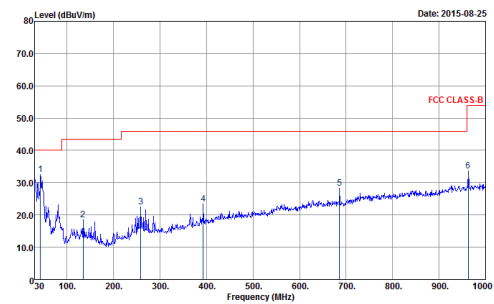
| WIFI      | 5GHz WIFI                                                                                                                                                                              |                                                                                                                                                                                       |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT       | 802.11a LF                                                                                                                                                                             |                                                                                                                                                                                       |
| 1         | Horizontal                                                                                                                                                                             | Vertical                                                                                                                                                                              |
| QP / Peak |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m LF-ANT(131102) HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m LF-ANT(131102) VERTICAL<br/>Detector : Peak</p> |

**Emission below 1GHz**  
**5GHz WIFI 802.11n HT20 (LF)**

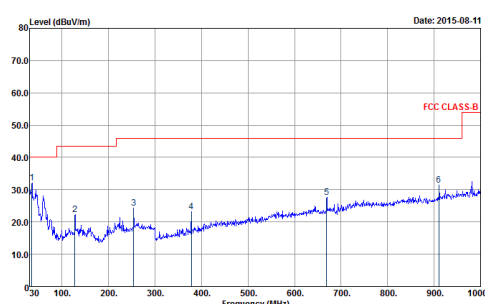
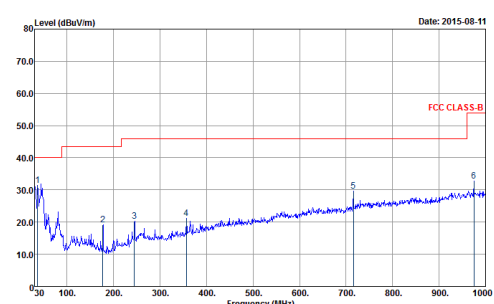
| WIFI      | 5GHz WIFI                                                                                                                                                                                |                                                                                                                                                                                         |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT       | 802.11n HT20 LF                                                                                                                                                                          |                                                                                                                                                                                         |
| 1         | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                                |
| QP / Peak |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m LF-ANT(131102) HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m LF-ANT(131102) VERTICAL<br/>Detector : Peak</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 : 03CH07-HY<br/>Condition : FCC CLASS-B 3m LF-ANT(131102) HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m LF-ANT(131102) VERTICAL<br/>Detector : Peak</p> |
|              |                                                                                                                                                                                        |                                                                                                                                                                                       |

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

| WIFI         | 5GHz WIFI                                                                                                                                                                                |                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 LF                                                                                                                                                                        |                                                                                                                                                                                         |
| 1            | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                                |
| QP /<br>Peak |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m LF-ANT(131102) HORIZONTAL<br/>Detector : Peak</p> |  <p>Site : 03CH07-HY<br/>Condition : FCC CLASS-B 3m LF-ANT(131102) VERTICAL<br/>Detector : Peak</p> |
|              |                                                                                                                                                                                          |                                                                                                                                                                                         |