



# FCC RF Test Report

**APPLICANT** : Motorola Mobility, LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : 4651  
**FCC ID** : IHDT56UA2  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

This is a variant report which is only valid together with the original test report. The product was received on May 21, 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.****No. 52, Hwa Ya 1<sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.**

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**SPORTON INTERNATIONAL INC.**

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FCC ID : IHDT56UA2

Page Number : 1 of 5

Report Issued Date : Aug. 04, 2015

Report Version : Rev. 01

Report Template No.: BU5-FR15EWL AC MA Version 1.0



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## REVISION HISTORY

| REPORT NO.   | VERSION | DESCRIPTION                                                                                                                                                                    | ISSUED DATE   |
|--------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| FR552083-02E | Rev. 01 | The Bluetooth and WLAN circuitry of this variant model (4651) is identical to that of the parent product (4036), based on the product equality declaration by the manufacturer | Aug. 04, 2015 |
|              |         |                                                                                                                                                                                |               |
|              |         |                                                                                                                                                                                |               |
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|              |         |                                                                                                                                                                                |               |
|              |         |                                                                                                                                                                                |               |



# 1 General Description

## 1.1 Applicant

**Motorola Mobility, LLC**

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

## 1.2 Manufacturer

**Motorola Mobility, LLC**

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

## 1.3 Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Mobile Cellular Phone                                                                                                                                                                |
| Brand Name                      | Motorola                                                                                                                                                                             |
| Model Name                      | 4651                                                                                                                                                                                 |
| FCC ID                          | IHDT56UA2                                                                                                                                                                            |
| EUT supports Radios application | GSM/EGPRS/WCDMA/HSPA/LTE/NFC<br>2.4GHz WLAN 11b/g/n HT20<br>WLAN 11ac VHT20<br>5GHz WLAN 11a/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80<br>Bluetooth v3.0 EDR<br>Bluetooth v4.1 - LE |
| HW Version                      | P2                                                                                                                                                                                   |
| EUT Stage                       | Identical Prototype                                                                                                                                                                  |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



## 1.4 Product Specification of Equipment Under Test

| Product Specification subjective to this standard |                                                                                                          |        |        |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------|--------|
| Tx/Rx Channel Frequency Range                     | 5180 MHz ~ 5240 MHz                                                                                      |        |        |
|                                                   | 5260 MHz ~ 5320 MHz                                                                                      |        |        |
|                                                   | 5500 MHz ~ 5700 MHz                                                                                      |        |        |
| Type of Modulation                                | 802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) |        |        |
| Antenna Type /Gain                                | Antenna 1 : IFA Antenna<br>Antenna 2 : IFA Antenna<br>(The antenna peak gain of EUT is less than 6 dBi)  |        |        |
| Antenna Function Description                      |                                                                                                          | Ant. 1 | Ant. 2 |
|                                                   | 802.11 a/n/ac SISO                                                                                       | V      | V      |
|                                                   | 802.11 a/n/ac MIMO                                                                                       | V      | V      |

## 1.5 Modification of EUT

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



## **Appendix A. Original Report**

Please refer to Sporton report number FR552083E as below.



# FCC RF Test Report

**APPLICANT** : Motorola Mobility, LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : 4036  
**FCC ID** : IHDT56UA  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on May 20, 2015 and testing was completed on Jun. 30, 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

---

Approved by: Jones Tsai / Manager



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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FR552083E  | Rev. 01 | Initial issue of report | Jul. 13, 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         | FCC<br>$\leq 24$ dBm<br>(depend on band)          | Pass   | -                                         |
| 3.3            | 15.407(a)             | Power Spectral Density                 | FCC<br>$\leq 11$ 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>0.53 dB at<br>5469.840 MHz |
| 3.5            | 15.207                | AC Conducted Emission                  | 15.207(a)                                         | Pass   | Under limit<br>5.90 dB at<br>1.998 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   | -                                         |



# 1 General Description

## 1.1 Applicant

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222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

## 1.2 Manufacturer

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

## 1.3 Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Mobile Cellular Phone                                                                                                                                                                           |
| Brand Name                      | Motorola                                                                                                                                                                                        |
| Model Name                      | 4036                                                                                                                                                                                            |
| FCC ID                          | IHDT56UA                                                                                                                                                                                        |
| IMEI Code                       | 990005740025664 (for AC Conducted Emission)<br>990005740064614 (for Radiated Spurious Emission)                                                                                                 |
| EUT supports Radios application | CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC<br>2.4GHz WLAN 11b/g/n HT20<br>WLAN 11ac VHT20<br>5GHz WLAN 11a/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80<br>Bluetooth v3.0 EDR<br>Bluetooth v4.1 - LE |
| HW Version                      | P2                                                                                                                                                                                              |
| EUT Stage                       | Identical Prototype                                                                                                                                                                             |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

| Accessory List |                       |
|----------------|-----------------------|
| AC Adapter     | Brand Name : Motorola |
|                | Model Name : SPN5886A |
| Battery        | Brand Name : Motorola |
|                | Model Name : FB55     |
| Earphone       | Brand Name : Motorola |
|                | Model Name : 89719N   |

## 1.4 Product Specification of Equipment Under Test

| Product Specification subjective to this standard |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx/Rx Channel Frequency Range</b>              | 5180 MHz ~ 5240 MHz<br>5260 MHz ~ 5320 MHz<br>5500 MHz ~ 5700 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Maximum Output Power</b>                       | <b>&lt;5180 MHz ~ 5240 MHz&gt;</b><br><b>SISO &lt;Ant. 1&gt;</b><br>802.11a : 12.96 dBm / 0.0198 W<br>802.11n HT20 : 12.50 dBm / 0.0178 W<br>802.11n HT40 : 12.17 dBm / 0.0165 W<br>802.11ac VHT20: 12.58 dBm / 0.0181 W<br>802.11ac VHT40: 12.20 dBm / 0.0166 W<br>802.11ac VHT80: 9.24 dBm / 0.0084 W<br><b>SISO &lt;Ant. 2&gt;</b><br>802.11a : 14.20 dBm / 0.0263 W<br>802.11n HT20 : 13.69 dBm / 0.0234 W<br>802.11n HT40 : 13.50 dBm / 0.0224 W<br>802.11ac VHT20: 13.89 dBm / 0.0245 W<br>802.11ac VHT40: 13.44 dBm / 0.0221 W<br>802.11ac VHT80: 10.69 dBm / 0.0117 W<br><b>MIMO &lt;Ant. 1 + 2&gt;</b><br>802.11a : 16.25 dBm / 0.0422 W<br>802.11n HT20 : 16.35 dBm / 0.0432 W<br>802.11n HT40 : 16.01 dBm / 0.0399 W<br>802.11ac VHT20: 16.29 dBm / 0.0426 W<br>802.11ac VHT40: 15.93 dBm / 0.0392 W<br>802.11ac VHT80: 12.66 dBm / 0.0185 W |



| Product Specification subjective to this standard |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Output Power                              | <b>&lt;5260 MHz ~ 5320 MHz&gt;</b><br><b>SISO &lt;Ant. 1&gt;</b><br>802.11a : 13.47 dBm / 0.0222 W<br>802.11n HT20 : 12.77 dBm / 0.0189 W<br>802.11n HT40 : 12.46 dBm / 0.0176 W<br>802.11ac VHT20: 12.88 dBm / 0.0194 W<br>802.11ac VHT40: 12.16 dBm / 0.0164 W<br>802.11ac VHT80: 10.96 dBm / 0.0125 W<br><b>SISO &lt;Ant. 2&gt;</b><br>802.11a : 14.25 dBm / 0.0266 W<br>802.11n HT20 : 13.97 dBm / 0.0249 W<br>802.11n HT40 : 13.74 dBm / 0.0237 W<br>802.11ac VHT20: 14.15 dBm / 0.0260 W<br>802.11ac VHT40: 13.40 dBm / 0.0219 W<br>802.11ac VHT80: 12.53 dBm / 0.0179 W<br><b>MIMO &lt;Ant. 1 + 2&gt;</b><br>802.11a : 16.64 dBm / 0.0461 W<br>802.11n HT20 : 16.68 dBm / 0.0466 W<br>802.11n HT40 : 15.98 dBm / 0.0396 W<br>802.11ac VHT20: 16.62 dBm / 0.0459 W<br>802.11ac VHT40: 15.98 dBm / 0.0396 W<br>802.11ac VHT80: 14.83 dBm / 0.0304 W |
|                                                   | <b>5500 MHz ~ 5700 MHz</b><br><b>SISO &lt;Ant. 1&gt;</b><br>802.11a : 13.49 dBm / 0.0223 W<br>802.11n HT20 : 12.79 dBm / 0.0190 W<br>802.11n HT40 : 12.13 dBm / 0.0163 W<br>802.11ac VHT20: 12.58 dBm / 0.0181 W<br>802.11ac VHT40: 12.13 dBm / 0.0163 W<br>802.11ac VHT80: 10.82 dBm / 0.0121 W<br><b>SISO &lt;Ant. 2&gt;</b><br>802.11a : 14.59 dBm / 0.0288 W<br>802.11n HT20 : 14.08 dBm / 0.0256 W<br>802.11n HT40 : 13.63 dBm / 0.0231 W<br>802.11ac VHT20: 14.09 dBm / 0.0256 W<br>802.11ac VHT40: 14.23 dBm / 0.0265 W<br>802.11ac VHT80: 12.76 dBm / 0.0189 W<br><b>MIMO &lt;Ant. 1 + 2&gt;</b><br>802.11a : 16.68 dBm / 0.0466 W<br>802.11n HT20 : 16.48 dBm / 0.0445 W<br>802.11n HT40 : 16.03 dBm / 0.0401 W<br>802.11ac VHT20: 16.44 dBm / 0.0441 W<br>802.11ac VHT40: 16.20 dBm / 0.0417 W<br>802.11ac VHT80: 14.99 dBm / 0.0316 W         |
|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Product Specification subjective to this standard |                                                                                                                                                                                                             |   |        |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------|
| 99% Occupied Bandwidth                            | <b>&lt;5150 MHz ~ 5250 MHz&gt;</b><br>802.11a : 22.05 MHz<br>802.11n HT20 : 18.00 MHz<br>802.11n HT40 : 36.20 MHz<br>802.11ac VHT20 : 18.05 MHz<br>802.11ac VHT40 : 36.20 MHz<br>802.11ac VHT80 : 74.88 MHz |   |        |
|                                                   | <b>&lt;5250 MHz ~ 5350 MHz&gt;</b><br>802.11a : 20.70 MHz<br>802.11n HT20 : 18.20 MHz<br>802.11n HT40 : 36.30 MHz<br>802.11ac VHT20 : 18.50 MHz<br>802.11ac VHT40 : 36.20 MHz<br>802.11ac VHT80 : 74.88 MHz |   |        |
|                                                   | <b>&lt;5470 MHz ~ 5725 MHz&gt;</b><br>802.11a : 18.60 MHz<br>802.11n HT20 : 18.00 MHz<br>802.11n HT40 : 36.20 MHz<br>802.11ac VHT20 : 18.10 MHz<br>802.11ac VHT40 : 36.30 MHz<br>802.11ac VHT80 : 75.12 MHz |   |        |
|                                                   | 802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)                                                                                                                                                              |   |        |
|                                                   | 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)                                                                                                                                                      |   |        |
|                                                   | Antenna 1 : IFA Antenna                                                                                                                                                                                     |   |        |
|                                                   | Antenna 2 : IFA Antenna                                                                                                                                                                                     |   |        |
|                                                   | (The antenna peak gain of EUT is less than 6 dBi)                                                                                                                                                           |   |        |
|                                                   |                                                                                                                                                                                                             |   |        |
|                                                   |                                                                                                                                                                                                             |   |        |
|                                                   |                                                                                                                                                                                                             |   |        |
|                                                   |                                                                                                                                                                                                             |   |        |
|                                                   |                                                                                                                                                                                                             |   |        |
|                                                   |                                                                                                                                                                                                             |   |        |
|                                                   | Antenna Function Description                                                                                                                                                                                |   | Ant. 1 |
| 802.11 a/n/ac SISO                                |                                                                                                                                                                                                             | V | V      |
| 802.11 a/n/ac MIMO                                |                                                                                                                                                                                                             | V | V      |

## 1.5 Modification of EUT

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

## 1.6 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.

|                    |                                                                                                                                                                  |         |           |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|
| Test Site          | SPORTON INTERNATIONAL INC.                                                                                                                                       |         |           |
| Test Site Location | 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 |         |           |
| Test Site No.      | Sporton Site No.                                                                                                                                                 |         |           |
|                    | TH02-HY                                                                                                                                                          | CO05-HY | 03CH07-HY |

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

## 1.7 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 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01
- ♦ KDB 648474 D03 Handset Wireless Chargers Battery Covers v01r02
- ♦ 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.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



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

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.<br>(MHz) | Channel   | Freq.<br>(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.<br>(MHz) | Channel   | Freq.<br>(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.<br>(MHz) | Channel    | Freq.<br>(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           | <b>126</b> | <b>5630</b>    |
|                                       | 108        | 5540           | 128        | 5640           |
|                                       | <b>110</b> | <b>5550</b>    | 132        | 5660           |
|                                       | 112        | 5560           | <b>134</b> | <b>5670</b>    |
|                                       | 116        | 5580           | 136        | 5680           |
|                                       | <b>118</b> | <b>5590</b>    | 140        | 5700           |

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

**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.

### SISO <Ant. 1>

| Channel | Frequency | 5GHz 802.11a Average Power (dBm) |        |         |         |         |         |         |         |
|---------|-----------|----------------------------------|--------|---------|---------|---------|---------|---------|---------|
|         |           | Data Rate                        |        |         |         |         |         |         |         |
|         |           | 6 Mbps                           | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 36   | 5180 MHz  | 12.96                            | 12.93  | 12.91   | 12.94   | 12.91   | 11.97   | 11.10   | 10.99   |
| CH 44   | 5220 MHz  | 12.92                            | 12.87  | 12.88   | 12.91   | 12.89   | 11.85   | 11.01   | 10.88   |
| CH 48   | 5240 MHz  | 12.89                            | 12.81  | 12.87   | 12.83   | 12.86   | 11.75   | 10.86   | 10.92   |
| CH 52   | 5260 MHz  | 12.94                            | 12.89  | 12.91   | 12.93   | 12.93   | 11.91   | 11.06   | 10.89   |
| CH 60   | 5300 MHz  | 13.43                            | 13.41  | 13.40   | 13.40   | 13.39   | 12.25   | 11.35   | 11.30   |
| CH 64   | 5320 MHz  | 13.47                            | 13.46  | 13.45   | 13.45   | 13.44   | 12.23   | 11.32   | 11.18   |
| CH 100  | 5500 MHz  | 13.49                            | 13.48  | 13.48   | 13.47   | 13.47   | 12.20   | 11.32   | 11.39   |
| CH 116  | 5580 MHz  | 12.90                            | 12.84  | 12.82   | 12.89   | 12.88   | 11.89   | 11.24   | 11.07   |
| CH 140  | 5700 MHz  | 12.81                            | 12.75  | 12.70   | 12.78   | 12.76   | 11.70   | 10.88   | 10.82   |

| Channel | Frequency | 5GHz 802.11a Peak Power (dBm) |        |         |         |         |         |         |         |
|---------|-----------|-------------------------------|--------|---------|---------|---------|---------|---------|---------|
|         |           | Data Rate                     |        |         |         |         |         |         |         |
|         |           | 6 Mbps                        | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 36   | 5180 MHz  | 19.60                         | 19.55  | 20.05   | 19.64   | 21.18   | 20.28   | 20.39   | 20.06   |
| CH 44   | 5220 MHz  | 19.44                         | 19.40  | 19.82   | 19.54   | 20.80   | 20.28   | 20.31   | 20.04   |
| CH 48   | 5240 MHz  | 19.36                         | 19.30  | 19.71   | 19.43   | 21.11   | 20.19   | 20.25   | 19.94   |
| CH 52   | 5260 MHz  | 19.49                         | 19.45  | 19.93   | 19.59   | 21.15   | 20.09   | 20.13   | 20.03   |
| CH 60   | 5300 MHz  | 19.70                         | 19.68  | 19.79   | 19.54   | 20.99   | 20.19   | 20.24   | 20.22   |
| CH 64   | 5320 MHz  | 19.60                         | 19.62  | 19.77   | 19.58   | 21.04   | 20.13   | 20.10   | 20.13   |
| CH 100  | 5500 MHz  | 19.80                         | 19.85  | 20.05   | 19.79   | 21.33   | 20.58   | 20.56   | 20.34   |
| CH 116  | 5580 MHz  | 19.43                         | 19.39  | 19.88   | 19.57   | 21.15   | 20.16   | 20.32   | 19.96   |
| CH 140  | 5700 MHz  | 19.06                         | 19.01  | 19.21   | 19.02   | 20.61   | 20.13   | 20.07   | 19.59   |



| Channel | Frequency | 5GHz 802.11n HT20 Average Power (dBm) |       |       |       |       |       |       |       |
|---------|-----------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                             |       |       |       |       |       |       |       |
|         |           | MCS0                                  | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 36   | 5180 MHz  | 12.50                                 | 12.31 | 12.45 | 12.08 | 12.11 | 11.12 | 10.96 | 10.11 |
| CH 44   | 5220 MHz  | 12.38                                 | 12.24 | 12.33 | 11.90 | 12.02 | 11.19 | 10.91 | 10.04 |
| CH 48   | 5240 MHz  | 12.29                                 | 12.12 | 12.28 | 11.79 | 11.86 | 10.98 | 10.77 | 9.90  |
| CH 52   | 5260 MHz  | 12.45                                 | 12.26 | 12.36 | 11.90 | 11.95 | 11.12 | 10.95 | 10.02 |
| CH 60   | 5300 MHz  | 12.77                                 | 12.62 | 12.74 | 12.26 | 12.37 | 11.48 | 11.31 | 10.39 |
| CH 64   | 5320 MHz  | 12.73                                 | 12.57 | 12.71 | 12.31 | 12.39 | 11.39 | 11.27 | 10.40 |
| CH 100  | 5500 MHz  | 12.79                                 | 12.54 | 12.61 | 12.14 | 12.22 | 11.35 | 11.16 | 10.33 |
| CH 116  | 5580 MHz  | 12.51                                 | 12.29 | 12.49 | 12.12 | 12.16 | 11.22 | 10.95 | 10.13 |
| CH 140  | 5700 MHz  | 12.28                                 | 12.04 | 12.21 | 11.76 | 11.86 | 10.98 | 10.83 | 9.87  |

| Channel | Frequency | 5GHz 802.11n HT20 Peak Power (dBm) |       |       |       |       |       |       |       |
|---------|-----------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                          |       |       |       |       |       |       |       |
|         |           | MCS0                               | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 36   | 5180 MHz  | 19.55                              | 19.45 | 19.38 | 20.43 | 20.49 | 20.22 | 20.69 | 19.16 |
| CH 44   | 5220 MHz  | 19.26                              | 19.21 | 19.13 | 20.60 | 20.47 | 20.21 | 20.64 | 19.07 |
| CH 48   | 5240 MHz  | 19.24                              | 19.18 | 19.18 | 20.52 | 20.43 | 20.06 | 20.65 | 19.01 |
| CH 52   | 5260 MHz  | 19.14                              | 19.11 | 19.13 | 20.37 | 20.49 | 20.07 | 20.59 | 19.15 |
| CH 60   | 5300 MHz  | 19.36                              | 19.32 | 19.29 | 20.40 | 20.51 | 20.26 | 20.53 | 20.36 |
| CH 64   | 5320 MHz  | 19.34                              | 19.31 | 19.33 | 20.59 | 20.47 | 20.29 | 20.52 | 19.33 |
| CH 100  | 5500 MHz  | 19.28                              | 19.21 | 19.25 | 20.65 | 20.61 | 20.29 | 20.63 | 19.22 |
| CH 116  | 5580 MHz  | 19.14                              | 19.01 | 19.15 | 20.37 | 20.43 | 20.22 | 20.43 | 19.12 |
| CH 140  | 5700 MHz  | 18.93                              | 18.89 | 18.91 | 20.15 | 20.17 | 19.62 | 20.16 | 18.75 |

| Channel | Frequency | 5GHz 802.11n HT40 Average Power (dBm) |       |       |       |       |       |       |      |
|---------|-----------|---------------------------------------|-------|-------|-------|-------|-------|-------|------|
|         |           | Data Rate                             |       |       |       |       |       |       |      |
|         |           | MCS0                                  | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7 |
| CH 38   | 5190MHz   | 11.83                                 | 11.80 | 11.78 | 11.44 | 11.36 | 10.48 | 10.26 | 9.30 |
| CH 46   | 5230MHz   | 12.17                                 | 12.10 | 12.15 | 11.41 | 11.46 | 10.60 | 10.56 | 9.51 |
| CH 54   | 5270MHz   | 12.25                                 | 12.20 | 12.23 | 11.43 | 11.33 | 10.58 | 10.59 | 9.57 |
| CH 62   | 5310MHz   | 12.46                                 | 12.45 | 12.42 | 11.76 | 11.76 | 10.84 | 10.73 | 9.72 |
| CH 102  | 5510MHz   | 10.01                                 | 9.95  | 9.94  | 9.98  | 9.90  | 9.95  | 9.98  | 9.52 |
| CH 110  | 5550MHz   | 12.13                                 | 12.11 | 12.10 | 11.39 | 11.44 | 10.44 | 10.48 | 9.58 |
| CH 134  | 5670MHz   | 11.67                                 | 11.65 | 11.65 | 11.21 | 11.26 | 10.22 | 10.16 | 9.15 |

| Channel | Frequency | 5GHz 802.11n HT40 Peak Power (dBm) |       |       |       |       |       |       |       |
|---------|-----------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                          |       |       |       |       |       |       |       |
|         |           | MCS0                               | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 38   | 5190MHz   | 19.22                              | 18.53 | 18.46 | 20.80 | 20.48 | 20.21 | 19.58 | 17.71 |
| CH 46   | 5230MHz   | 19.36                              | 18.96 | 18.60 | 19.96 | 19.99 | 19.36 | 19.27 | 17.45 |
| CH 54   | 5270MHz   | 19.29                              | 18.80 | 18.79 | 19.82 | 20.26 | 19.51 | 18.75 | 17.65 |
| CH 62   | 5310MHz   | 19.48                              | 19.37 | 19.38 | 20.74 | 20.67 | 20.36 | 19.88 | 18.30 |
| CH 102  | 5510MHz   | 16.69                              | 16.29 | 16.09 | 18.95 | 18.73 | 19.29 | 18.21 | 17.75 |
| CH 110  | 5550MHz   | 19.23                              | 18.93 | 18.40 | 20.03 | 19.80 | 19.47 | 18.84 | 17.19 |
| CH 134  | 5670MHz   | 18.92                              | 18.90 | 18.68 | 20.26 | 20.60 | 19.87 | 19.41 | 18.00 |



| Channel | Frequency | 5GHz 802.11ac VHT20 Average Power (dBm) |       |       |       |       |       |       |       |      |
|---------|-----------|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|------|
|         |           | Data Rate                               |       |       |       |       |       |       |       |      |
|         |           | MCS0                                    | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8 |
| CH 36   | 5180 MHz  | 12.58                                   | 12.45 | 12.50 | 12.25 | 12.23 | 11.29 | 11.21 | 10.17 | 9.03 |
| CH 44   | 5220 MHz  | 12.51                                   | 12.43 | 12.42 | 12.03 | 12.04 | 11.42 | 11.15 | 10.29 | 9.31 |
| CH 48   | 5240 MHz  | 12.45                                   | 12.37 | 12.35 | 11.95 | 11.99 | 11.30 | 10.96 | 10.25 | 9.33 |
| CH 52   | 5260 MHz  | 12.52                                   | 12.48 | 12.44 | 12.09 | 12.05 | 11.33 | 11.07 | 10.35 | 9.43 |
| CH 60   | 5300 MHz  | 12.88                                   | 12.82 | 12.81 | 12.53 | 12.45 | 11.57 | 11.56 | 10.78 | 9.80 |
| CH 64   | 5320 MHz  | 12.84                                   | 12.76 | 12.82 | 12.53 | 12.44 | 11.60 | 11.51 | 10.47 | 9.40 |
| CH 100  | 5500 MHz  | 12.58                                   | 12.56 | 12.52 | 12.36 | 12.37 | 11.47 | 11.42 | 10.30 | 9.21 |
| CH 116  | 5580 MHz  | 12.24                                   | 12.03 | 11.97 | 11.71 | 11.95 | 11.18 | 11.16 | 10.16 | 9.24 |
| CH 140  | 5700 MHz  | 12.09                                   | 11.96 | 11.95 | 11.56 | 11.65 | 10.65 | 10.73 | 9.51  | 8.54 |

| Channel | Frequency | 5GHz 802.11ac VHT20 Peak Power (dBm) |       |       |       |       |       |       |       |       |
|---------|-----------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                            |       |       |       |       |       |       |       |       |
|         |           | MCS0                                 | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  |
| CH 36   | 5180 MHz  | 19.39                                | 19.70 | 19.52 | 20.74 | 20.78 | 20.80 | 20.94 | 19.56 | 18.56 |
| CH 44   | 5220 MHz  | 19.37                                | 19.63 | 19.42 | 20.55 | 20.87 | 20.40 | 20.91 | 19.13 | 19.07 |
| CH 48   | 5240 MHz  | 19.27                                | 19.54 | 19.35 | 20.70 | 20.42 | 20.36 | 20.82 | 19.02 | 18.59 |
| CH 52   | 5260 MHz  | 19.28                                | 19.65 | 19.45 | 20.79 | 20.61 | 20.32 | 20.76 | 19.06 | 18.80 |
| CH 60   | 5300 MHz  | 19.55                                | 19.80 | 19.66 | 20.77 | 20.58 | 20.52 | 20.61 | 19.43 | 18.07 |
| CH 64   | 5320 MHz  | 19.44                                | 19.81 | 19.65 | 20.71 | 20.73 | 20.57 | 21.03 | 19.54 | 18.24 |
| CH 100  | 5500 MHz  | 19.22                                | 19.73 | 19.62 | 20.93 | 21.17 | 20.61 | 21.06 | 19.66 | 19.24 |
| CH 116  | 5580 MHz  | 18.91                                | 19.14 | 18.88 | 20.32 | 20.25 | 19.92 | 20.26 | 18.67 | 18.83 |
| CH 140  | 5700 MHz  | 18.70                                | 18.70 | 18.63 | 20.24 | 20.37 | 20.00 | 20.41 | 19.21 | 18.74 |



| Channel | Frequency | 5GHz 802.11ac VHT40 Average Power (dBm) |       |       |       |       |       |       |      |      |      |
|---------|-----------|-----------------------------------------|-------|-------|-------|-------|-------|-------|------|------|------|
|         |           | Data Rate                               |       |       |       |       |       |       |      |      |      |
|         |           | MCS0                                    | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7 | MCS8 | MCS9 |
| CH 38   | 5190MHz   | 10.97                                   | 10.94 | 10.91 | 10.92 | 10.93 | 10.44 | 10.36 | 9.20 | 8.31 | 7.29 |
| CH 46   | 5230MHz   | 12.20                                   | 12.15 | 12.18 | 11.38 | 11.48 | 10.24 | 10.56 | 9.53 | 8.91 | 8.04 |
| CH 54   | 5270MHz   | 12.15                                   | 12.08 | 12.08 | 11.20 | 11.54 | 10.35 | 10.43 | 9.57 | 8.87 | 7.88 |
| CH 62   | 5310MHz   | 12.16                                   | 12.08 | 12.12 | 11.70 | 11.73 | 10.81 | 10.73 | 9.59 | 8.67 | 7.50 |
| CH 102  | 5510MHz   | 9.83                                    | 9.77  | 9.81  | 9.82  | 9.77  | 9.75  | 9.57  | 9.35 | 8.52 | 7.47 |
| CH 110  | 5550MHz   | 12.13                                   | 12.04 | 12.12 | 11.16 | 11.50 | 10.39 | 10.28 | 9.49 | 8.89 | 8.00 |
| CH 134  | 5670MHz   | 11.67                                   | 11.64 | 11.66 | 11.16 | 11.22 | 10.23 | 10.05 | 8.98 | 7.99 | 7.01 |

| Channel | Frequency | 5GHz 802.11ac VHT40 Peak Power (dBm) |       |       |       |       |       |       |       |       |       |
|---------|-----------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                            |       |       |       |       |       |       |       |       |       |
|         |           | MCS0                                 | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 38   | 5190MHz   | 18.44                                | 17.72 | 17.43 | 19.84 | 19.77 | 20.71 | 19.00 | 17.71 | 17.03 | 17.21 |
| CH 46   | 5230MHz   | 19.39                                | 18.76 | 18.72 | 20.08 | 19.96 | 20.52 | 18.74 | 17.75 | 16.74 | 16.60 |
| CH 54   | 5270MHz   | 19.23                                | 18.88 | 18.68 | 19.92 | 20.01 | 20.46 | 18.70 | 17.65 | 16.59 | 16.67 |
| CH 62   | 5310MHz   | 19.34                                | 19.22 | 18.85 | 20.73 | 20.61 | 20.66 | 19.84 | 18.52 | 17.23 | 17.42 |
| CH 102  | 5510MHz   | 17.04                                | 16.45 | 16.01 | 19.37 | 18.67 | 19.81 | 17.94 | 18.11 | 17.59 | 17.41 |
| CH 110  | 5550MHz   | 19.26                                | 18.85 | 18.58 | 19.89 | 20.06 | 20.64 | 18.66 | 17.73 | 16.82 | 16.58 |
| CH 134  | 5670MHz   | 18.74                                | 18.55 | 18.73 | 20.35 | 20.22 | 20.40 | 18.83 | 17.85 | 17.41 | 16.73 |

| Channel | Frequency | 5GHz 802.11ac VHT80 Average Power (dBm) |       |       |       |       |      |      |      |      |      |
|---------|-----------|-----------------------------------------|-------|-------|-------|-------|------|------|------|------|------|
|         |           | Data Rate                               |       |       |       |       |      |      |      |      |      |
|         |           | MCS0                                    | MCS1  | MCS2  | MCS3  | MCS4  | MCS5 | MCS6 | MCS7 | MCS8 | MCS9 |
| CH 42   | 5210MHz   | 9.24                                    | 9.21  | 9.18  | 9.18  | 9.23  | 9.19 | 9.11 | 8.26 | 7.38 | 7.32 |
| CH 58   | 5290MHz   | 10.96                                   | 10.93 | 10.92 | 10.45 | 10.33 | 9.14 | 9.24 | 8.24 | 7.62 | 7.45 |
| CH 106  | 5530MHz   | 9.26                                    | 9.23  | 9.20  | 9.19  | 9.22  | 9.22 | 9.21 | 8.41 | 7.66 | 7.61 |
| CH 122  | 5610MHz   | 10.82                                   | 10.81 | 10.80 | 10.67 | 10.40 | 9.32 | 9.35 | 8.41 | 7.59 | 7.55 |

| Channel | Frequency | 5GHz 802.11ac VHT80 Peak Power (dBm) |       |       |       |       |       |       |       |       |       |
|---------|-----------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                            |       |       |       |       |       |       |       |       |       |
|         |           | MCS0                                 | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 42   | 5210MHz   | 16.42                                | 16.26 | 15.63 | 18.90 | 19.00 | 19.40 | 18.65 | 18.24 | 16.80 | 16.78 |
| CH 58   | 5290MHz   | 18.17                                | 17.93 | 18.15 | 20.11 | 20.16 | 18.37 | 18.31 | 18.15 | 17.28 | 16.85 |
| CH 106  | 5530MHz   | 16.21                                | 15.95 | 15.47 | 18.25 | 18.54 | 18.77 | 18.42 | 18.60 | 16.92 | 16.80 |
| CH 122  | 5610MHz   | 17.97                                | 17.93 | 17.96 | 20.09 | 20.10 | 18.73 | 18.76 | 18.20 | 16.95 | 16.95 |

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| Channel | Frequency | 5GHz 802.11a Average Power (dBm) |        |         |         |         |         |         |         |
|---------|-----------|----------------------------------|--------|---------|---------|---------|---------|---------|---------|
|         |           | Data Rate                        |        |         |         |         |         |         |         |
|         |           | 6 Mbps                           | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 36   | 5180 MHz  | 14.06                            | 14.01  | 14.03   | 14.03   | 14.05   | 13.06   | 12.14   | 12.21   |
| CH 44   | 5220 MHz  | 14.20                            | 14.13  | 14.12   | 14.15   | 14.18   | 13.09   | 12.34   | 12.37   |
| CH 48   | 5240 MHz  | 14.17                            | 14.06  | 14.11   | 14.10   | 14.14   | 13.09   | 12.19   | 12.30   |
| CH 52   | 5260 MHz  | 14.25                            | 14.21  | 14.18   | 14.20   | 14.23   | 13.14   | 12.24   | 12.35   |
| CH 60   | 5300 MHz  | 13.85                            | 13.81  | 13.78   | 13.77   | 13.77   | 13.38   | 12.59   | 12.50   |
| CH 64   | 5320 MHz  | 13.83                            | 13.74  | 13.72   | 13.72   | 13.73   | 13.35   | 12.56   | 12.59   |
| CH 100  | 5500 MHz  | 13.90                            | 13.83  | 13.82   | 13.82   | 13.81   | 13.58   | 12.72   | 12.63   |
| CH 116  | 5580 MHz  | 14.59                            | 14.56  | 14.54   | 14.58   | 14.57   | 13.47   | 12.62   | 12.62   |
| CH 140  | 5700 MHz  | 14.04                            | 14.03  | 13.97   | 14.02   | 14.00   | 13.80   | 12.79   | 12.75   |

| Channel | Frequency | 5GHz 802.11a Peak Power (dBm) |        |         |         |         |         |         |         |
|---------|-----------|-------------------------------|--------|---------|---------|---------|---------|---------|---------|
|         |           | Data Rate                     |        |         |         |         |         |         |         |
|         |           | 6 Mbps                        | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 36   | 5180 MHz  | 19.78                         | 19.72  | 19.84   | 19.62   | 20.33   | 19.66   | 19.64   | 19.70   |
| CH 44   | 5220 MHz  | 19.85                         | 19.82  | 19.91   | 19.76   | 20.52   | 19.82   | 19.79   | 19.82   |
| CH 48   | 5240 MHz  | 19.67                         | 19.77  | 19.86   | 19.71   | 20.30   | 19.50   | 19.53   | 19.61   |
| CH 52   | 5260 MHz  | 19.84                         | 19.86  | 19.92   | 19.86   | 20.41   | 19.62   | 19.58   | 19.65   |
| CH 60   | 5300 MHz  | 19.82                         | 19.78  | 19.99   | 19.78   | 20.58   | 19.92   | 19.95   | 19.88   |
| CH 64   | 5320 MHz  | 19.72                         | 19.69  | 19.83   | 19.72   | 20.54   | 19.80   | 19.82   | 19.79   |
| CH 100  | 5500 MHz  | 19.91                         | 19.95  | 20.10   | 19.96   | 20.84   | 20.39   | 20.37   | 20.41   |
| CH 116  | 5580 MHz  | 20.43                         | 20.48  | 20.51   | 20.46   | 21.00   | 20.23   | 20.25   | 20.22   |
| CH 140  | 5700 MHz  | 20.05                         | 20.20  | 20.30   | 20.08   | 20.90   | 20.14   | 20.20   | 20.22   |



| Channel | Frequency | 5GHz 802.11n HT20 Average Power (dBm) |       |       |       |       |       |       |       |
|---------|-----------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                             |       |       |       |       |       |       |       |
|         |           | MCS0                                  | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 36   | 5180 MHz  | 13.50                                 | 13.49 | 13.49 | 13.22 | 13.13 | 12.27 | 12.18 | 11.15 |
| CH 44   | 5220 MHz  | 13.69                                 | 13.65 | 13.68 | 13.37 | 13.34 | 12.55 | 12.49 | 11.51 |
| CH 48   | 5240 MHz  | 13.65                                 | 13.54 | 13.59 | 13.25 | 13.30 | 12.49 | 12.44 | 11.44 |
| CH 52   | 5260 MHz  | 13.73                                 | 13.68 | 13.63 | 13.40 | 13.35 | 12.48 | 12.48 | 11.48 |
| CH 60   | 5300 MHz  | 13.97                                 | 13.91 | 13.88 | 13.58 | 13.59 | 12.67 | 12.68 | 11.76 |
| CH 64   | 5320 MHz  | 13.86                                 | 13.76 | 13.83 | 13.50 | 13.42 | 12.61 | 12.51 | 12.48 |
| CH 100  | 5500 MHz  | 14.08                                 | 14.05 | 14.05 | 13.48 | 13.42 | 12.57 | 12.42 | 11.47 |
| CH 116  | 5580 MHz  | 13.96                                 | 13.81 | 13.95 | 13.44 | 13.47 | 12.68 | 12.55 | 11.51 |
| CH 140  | 5700 MHz  | 14.06                                 | 13.91 | 14.05 | 13.66 | 13.69 | 12.69 | 12.64 | 11.58 |

| Channel | Frequency | 5GHz 802.11n HT20 Peak Power (dBm) |       |       |       |       |       |       |       |
|---------|-----------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                          |       |       |       |       |       |       |       |
|         |           | MCS0                               | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 36   | 5180 MHz  | 19.40                              | 19.35 | 19.36 | 19.83 | 19.93 | 20.08 | 20.21 | 18.95 |
| CH 44   | 5220 MHz  | 19.51                              | 19.47 | 19.43 | 19.96 | 20.05 | 20.20 | 20.57 | 20.14 |
| CH 48   | 5240 MHz  | 19.36                              | 19.77 | 19.55 | 19.85 | 19.94 | 20.12 | 20.51 | 20.05 |
| CH 52   | 5260 MHz  | 19.44                              | 19.83 | 19.73 | 20.13 | 20.25 | 20.27 | 20.62 | 20.13 |
| CH 60   | 5300 MHz  | 19.73                              | 19.96 | 19.87 | 20.29 | 20.42 | 20.17 | 20.64 | 19.04 |
| CH 64   | 5320 MHz  | 19.64                              | 19.62 | 19.61 | 20.37 | 20.38 | 20.38 | 20.35 | 20.51 |
| CH 100  | 5500 MHz  | 19.98                              | 19.93 | 19.95 | 20.40 | 20.30 | 20.38 | 20.37 | 19.93 |
| CH 116  | 5580 MHz  | 19.91                              | 20.12 | 19.82 | 20.31 | 20.40 | 20.41 | 20.51 | 19.97 |
| CH 140  | 5700 MHz  | 20.00                              | 19.85 | 19.95 | 19.98 | 19.98 | 20.33 | 20.42 | 19.95 |

| Channel | Frequency | 5GHz 802.11n HT40 Average Power (dBm) |       |       |       |       |       |       |       |
|---------|-----------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                             |       |       |       |       |       |       |       |
|         |           | MCS0                                  | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 38   | 5190MHz   | 12.94                                 | 12.88 | 12.89 | 12.33 | 12.42 | 11.41 | 11.44 | 10.33 |
| CH 46   | 5230MHz   | 13.50                                 | 13.45 | 13.46 | 12.54 | 12.55 | 11.91 | 11.67 | 10.64 |
| CH 54   | 5270MHz   | 13.57                                 | 13.53 | 13.52 | 12.52 | 12.52 | 11.67 | 11.71 | 10.92 |
| CH 62   | 5310MHz   | 13.74                                 | 13.63 | 13.61 | 12.57 | 12.67 | 11.77 | 11.74 | 10.67 |
| CH 102  | 5510MHz   | 11.25                                 | 11.22 | 11.24 | 11.15 | 11.21 | 11.16 | 11.14 | 11.01 |
| CH 110  | 5550MHz   | 13.63                                 | 13.62 | 13.60 | 12.76 | 12.78 | 11.84 | 11.95 | 11.80 |
| CH 134  | 5670MHz   | 13.54                                 | 13.52 | 13.53 | 12.83 | 12.89 | 11.90 | 11.94 | 10.92 |

| Channel | Frequency | 5GHz 802.11n HT40 Peak Power (dBm) |       |       |       |       |       |       |       |
|---------|-----------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                          |       |       |       |       |       |       |       |
|         |           | MCS0                               | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 38   | 5190MHz   | 19.16                              | 19.07 | 18.93 | 19.91 | 20.07 | 19.80 | 19.83 | 18.11 |
| CH 46   | 5230MHz   | 19.86                              | 19.32 | 19.29 | 20.09 | 19.92 | 19.39 | 20.19 | 18.13 |
| CH 54   | 5270MHz   | 19.65                              | 19.34 | 19.44 | 20.27 | 20.32 | 20.23 | 20.15 | 18.26 |
| CH 62   | 5310MHz   | 19.94                              | 19.69 | 19.78 | 20.30 | 20.41 | 20.30 | 19.86 | 19.53 |
| CH 102  | 5510MHz   | 18.12                              | 17.83 | 17.67 | 19.70 | 20.15 | 20.17 | 19.99 | 19.57 |
| CH 110  | 5550MHz   | 19.85                              | 19.76 | 19.83 | 20.42 | 20.40 | 20.46 | 20.14 | 20.01 |
| CH 134  | 5670MHz   | 20.00                              | 19.91 | 19.97 | 20.72 | 20.58 | 20.57 | 20.40 | 18.21 |



| Channel | Frequency | 5GHz 802.11ac VHT20 Average Power (dBm) |       |       |       |       |       |       |       |       |
|---------|-----------|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                               |       |       |       |       |       |       |       |       |
|         |           | MCS0                                    | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  |
| CH 36   | 5180 MHz  | 13.74                                   | 13.42 | 13.61 | 13.14 | 13.19 | 12.33 | 12.23 | 11.13 | 10.15 |
| CH 44   | 5220 MHz  | 13.89                                   | 13.70 | 13.88 | 13.38 | 13.32 | 12.54 | 12.45 | 11.46 | 10.63 |
| CH 48   | 5240 MHz  | 13.84                                   | 13.75 | 13.82 | 13.26 | 13.28 | 12.44 | 12.38 | 11.48 | 10.56 |
| CH 52   | 5260 MHz  | 13.96                                   | 13.72 | 13.80 | 13.36 | 13.24 | 12.37 | 12.36 | 11.34 | 10.47 |
| CH 60   | 5300 MHz  | 14.15                                   | 13.67 | 13.85 | 13.45 | 13.30 | 12.44 | 12.42 | 11.39 | 10.36 |
| CH 64   | 5320 MHz  | 14.01                                   | 13.80 | 13.94 | 13.40 | 13.42 | 12.66 | 12.53 | 11.40 | 10.41 |
| CH 100  | 5500 MHz  | 14.09                                   | 13.94 | 13.97 | 13.75 | 13.71 | 12.99 | 12.88 | 11.78 | 10.80 |
| CH 116  | 5580 MHz  | 14.01                                   | 13.83 | 13.91 | 13.71 | 13.69 | 12.82 | 12.69 | 11.63 | 10.67 |
| CH 140  | 5700 MHz  | 14.04                                   | 13.75 | 13.96 | 13.68 | 13.60 | 12.63 | 12.49 | 11.50 | 10.49 |

| Channel | Frequency | 5GHz 802.11ac VHT20 Peak Power (dBm) |       |       |       |       |       |       |       |       |
|---------|-----------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                            |       |       |       |       |       |       |       |       |
|         |           | MCS0                                 | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  |
| CH 36   | 5180 MHz  | 19.63                                | 19.49 | 19.36 | 20.05 | 19.96 | 19.97 | 20.30 | 19.30 | 19.29 |
| CH 44   | 5220 MHz  | 19.68                                | 19.65 | 19.64 | 19.88 | 19.76 | 19.99 | 20.66 | 20.12 | 18.11 |
| CH 48   | 5240 MHz  | 19.58                                | 19.78 | 19.57 | 20.05 | 20.15 | 20.09 | 20.56 | 19.99 | 18.44 |
| CH 52   | 5260 MHz  | 19.67                                | 19.85 | 19.67 | 20.07 | 20.13 | 20.02 | 20.58 | 19.93 | 18.17 |
| CH 60   | 5300 MHz  | 19.95                                | 19.69 | 19.71 | 20.18 | 20.24 | 20.16 | 20.64 | 19.65 | 18.63 |
| CH 64   | 5320 MHz  | 19.92                                | 19.90 | 19.85 | 20.30 | 20.25 | 20.32 | 20.71 | 19.61 | 19.58 |
| CH 100  | 5500 MHz  | 19.86                                | 19.81 | 19.84 | 20.51 | 20.63 | 20.77 | 20.64 | 20.72 | 19.54 |
| CH 116  | 5580 MHz  | 19.89                                | 19.68 | 19.81 | 20.48 | 20.55 | 20.47 | 20.36 | 20.64 | 18.96 |
| CH 140  | 5700 MHz  | 19.93                                | 19.81 | 19.91 | 20.33 | 20.33 | 20.15 | 20.32 | 20.00 | 18.28 |



| Channel | Frequency | 5GHz 802.11ac VHT40 Average Power (dBm) |       |       |       |       |       |       |       |       |      |
|---------|-----------|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|         |           | Data Rate                               |       |       |       |       |       |       |       |       |      |
|         |           | MCS0                                    | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9 |
| CH 38   | 5190MHz   | 12.12                                   | 12.09 | 12.08 | 12.04 | 11.99 | 11.32 | 11.39 | 10.26 | 9.31  | 8.30 |
| CH 46   | 5230MHz   | 13.44                                   | 13.39 | 13.41 | 12.53 | 12.74 | 11.60 | 11.71 | 10.88 | 9.91  | 9.16 |
| CH 54   | 5270MHz   | 13.40                                   | 13.35 | 13.39 | 12.55 | 12.68 | 11.61 | 11.96 | 10.61 | 9.94  | 8.79 |
| CH 62   | 5310MHz   | 13.11                                   | 13.07 | 13.07 | 12.63 | 12.66 | 11.61 | 11.67 | 10.63 | 9.59  | 8.64 |
| CH 102  | 5510MHz   | 11.22                                   | 11.13 | 11.17 | 11.13 | 11.18 | 11.14 | 11.10 | 10.91 | 9.79  | 8.94 |
| CH 110  | 5550MHz   | 13.47                                   | 13.44 | 13.46 | 12.69 | 12.82 | 11.82 | 11.90 | 11.05 | 9.72  | 9.22 |
| CH 134  | 5670MHz   | 14.23                                   | 14.22 | 14.21 | 13.49 | 13.45 | 12.41 | 12.49 | 11.47 | 10.49 | 9.37 |

| Channel | Frequency | 5GHz 802.11ac VHT40 Peak Power (dBm) |       |       |       |       |       |       |       |       |       |
|---------|-----------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                            |       |       |       |       |       |       |       |       |       |
|         |           | MCS0                                 | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 38   | 5190MHz   | 18.90                                | 18.49 | 18.53 | 19.95 | 19.99 | 20.10 | 19.86 | 19.10 | 17.96 | 18.30 |
| CH 46   | 5230MHz   | 19.55                                | 19.32 | 19.37 | 19.98 | 19.88 | 20.14 | 20.22 | 17.97 | 17.38 | 17.65 |
| CH 54   | 5270MHz   | 19.71                                | 19.34 | 19.65 | 20.34 | 20.49 | 20.43 | 20.02 | 18.58 | 17.52 | 18.78 |
| CH 62   | 5310MHz   | 19.55                                | 19.34 | 19.45 | 20.42 | 20.41 | 20.41 | 19.85 | 19.21 | 18.46 | 19.16 |
| CH 102  | 5510MHz   | 18.46                                | 18.15 | 17.67 | 20.29 | 20.27 | 20.42 | 19.51 | 18.68 | 18.65 | 18.55 |
| CH 110  | 5550MHz   | 19.87                                | 19.83 | 19.82 | 20.77 | 20.67 | 20.65 | 20.05 | 18.48 | 18.69 | 18.02 |
| CH 134  | 5670MHz   | 19.89                                | 19.85 | 19.84 | 20.54 | 20.75 | 20.65 | 20.13 | 18.48 | 18.44 | 18.24 |

| Channel | Frequency | 5GHz 802.11ac VHT80 Average Power (dBm) |       |       |       |       |       |       |       |      |      |
|---------|-----------|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|
|         |           | Data Rate                               |       |       |       |       |       |       |       |      |      |
|         |           | MCS0                                    | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8 | MCS9 |
| CH 42   | 5210MHz   | 10.69                                   | 10.65 | 10.66 | 10.53 | 10.68 | 10.63 | 10.56 | 9.70  | 8.50 | 8.48 |
| CH 58   | 5290MHz   | 12.53                                   | 12.40 | 12.45 | 11.63 | 11.81 | 10.74 | 10.65 | 9.74  | 8.60 | 8.59 |
| CH 106  | 5530MHz   | 11.31                                   | 11.11 | 11.20 | 11.16 | 11.15 | 11.11 | 11.25 | 10.39 | 9.06 | 9.09 |
| CH 122  | 5610MHz   | 12.76                                   | 12.70 | 12.70 | 12.28 | 12.36 | 11.38 | 11.29 | 10.45 | 9.21 | 9.15 |

| Channel | Frequency | 5GHz 802.11ac VHT80 Peak Power (dBm) |       |       |       |       |       |       |       |       |       |
|---------|-----------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                            |       |       |       |       |       |       |       |       |       |
|         |           | MCS0                                 | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 42   | 5210MHz   | 17.92                                | 17.33 | 17.21 | 19.67 | 19.54 | 19.84 | 19.36 | 19.16 | 17.98 | 17.94 |
| CH 58   | 5290MHz   | 19.24                                | 19.22 | 19.15 | 20.16 | 20.22 | 20.06 | 19.60 | 19.31 | 18.11 | 18.08 |
| CH 106  | 5530MHz   | 18.61                                | 17.85 | 17.86 | 20.38 | 20.41 | 20.56 | 19.40 | 19.24 | 18.19 | 18.30 |
| CH 122  | 5610MHz   | 19.33                                | 19.30 | 19.30 | 20.46 | 20.40 | 20.22 | 19.29 | 18.61 | 18.15 | 18.26 |

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| Channel | Frequency | 5GHz 802.11a Average Power (dBm) |        |         |         |         |         |         |         |
|---------|-----------|----------------------------------|--------|---------|---------|---------|---------|---------|---------|
|         |           | Data Rate                        |        |         |         |         |         |         |         |
|         |           | 6 Mbps                           | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 36   | 5180 MHz  | 16.25                            | 16.20  | 16.19   | 16.17   | 16.22   | 15.93   | 14.98   | 14.86   |
| CH 44   | 5220 MHz  | 16.22                            | 16.18  | 16.16   | 16.15   | 16.18   | 15.82   | 15.00   | 14.93   |
| CH 48   | 5240 MHz  | 16.18                            | 16.13  | 16.12   | 16.11   | 16.11   | 15.76   | 14.87   | 14.86   |
| CH 52   | 5260 MHz  | 16.14                            | 16.14  | 16.12   | 16.11   | 16.12   | 15.92   | 15.82   | 15.76   |
| CH 60   | 5300 MHz  | 16.64                            | 16.60  | 16.57   | 16.56   | 16.56   | 16.15   | 15.23   | 15.09   |
| CH 64   | 5320 MHz  | 16.59                            | 16.56  | 16.54   | 16.54   | 16.53   | 16.06   | 15.11   | 15.05   |
| CH 100  | 5500 MHz  | 16.68                            | 16.65  | 16.61   | 16.61   | 16.61   | 15.98   | 15.01   | 14.85   |
| CH 116  | 5580 MHz  | 16.27                            | 16.25  | 16.23   | 16.22   | 16.21   | 15.85   | 14.97   | 14.83   |
| CH 140  | 5700 MHz  | 16.58                            | 16.40  | 16.40   | 16.51   | 16.54   | 15.82   | 14.82   | 14.76   |

| Channel | Frequency | 5GHz 802.11a Peak Power (dBm) (800ns) |        |         |         |         |         |         |         |
|---------|-----------|---------------------------------------|--------|---------|---------|---------|---------|---------|---------|
|         |           | Data Rate                             |        |         |         |         |         |         |         |
|         |           | 6 Mbps                                | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 36   | 5180 MHz  | 22.27                                 | 22.27  | 22.40   | 22.25   | 23.19   | 23.09   | 23.04   | 22.87   |
| CH 44   | 5220 MHz  | 22.33                                 | 22.30  | 22.36   | 22.28   | 23.21   | 23.19   | 23.09   | 23.04   |
| CH 48   | 5240 MHz  | 22.28                                 | 22.15  | 21.21   | 22.39   | 23.16   | 22.81   | 23.15   | 22.87   |
| CH 52   | 5260 MHz  | 22.20                                 | 22.21  | 22.30   | 22.17   | 23.07   | 22.99   | 23.04   | 23.14   |
| CH 60   | 5300 MHz  | 22.43                                 | 22.47  | 22.61   | 22.46   | 23.25   | 23.01   | 23.08   | 23.09   |
| CH 64   | 5320 MHz  | 22.45                                 | 22.44  | 22.84   | 22.38   | 23.33   | 23.26   | 23.34   | 22.97   |
| CH 100  | 5500 MHz  | 22.64                                 | 22.57  | 22.82   | 22.61   | 23.63   | 23.20   | 22.95   | 22.97   |
| CH 116  | 5580 MHz  | 22.33                                 | 22.31  | 22.42   | 22.29   | 23.11   | 22.80   | 22.90   | 22.70   |
| CH 140  | 5700 MHz  | 21.92                                 | 21.92  | 22.02   | 21.78   | 22.78   | 22.96   | 22.89   | 22.65   |

| Channel | Frequency | 5GHz 802.11n HT20 Average Power (dBm) |       |       |       |       |       |       |       |
|---------|-----------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                             |       |       |       |       |       |       |       |
|         |           | MCS0                                  | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 36   | 5180 MHz  | 16.32                                 | 16.29 | 16.29 | 16.00 | 15.81 | 14.91 | 14.81 | 13.85 |
| CH 44   | 5220 MHz  | 16.35                                 | 16.31 | 16.30 | 16.15 | 15.95 | 15.08 | 15.02 | 14.16 |
| CH 48   | 5240 MHz  | 16.32                                 | 16.28 | 16.26 | 16.02 | 15.76 | 14.99 | 14.94 | 14.04 |
| CH 52   | 5260 MHz  | 16.40                                 | 16.39 | 16.38 | 16.06 | 15.99 | 15.01 | 15.01 | 14.11 |
| CH 60   | 5300 MHz  | 16.68                                 | 16.22 | 16.29 | 15.81 | 15.87 | 14.97 | 14.89 | 14.06 |
| CH 64   | 5320 MHz  | 16.64                                 | 16.50 | 16.51 | 16.20 | 16.05 | 15.17 | 15.13 | 14.08 |
| CH 100  | 5500 MHz  | 16.48                                 | 16.42 | 16.44 | 16.07 | 16.01 | 15.21 | 15.23 | 14.10 |
| CH 116  | 5580 MHz  | 16.29                                 | 16.27 | 16.24 | 15.84 | 15.72 | 15.11 | 14.82 | 14.08 |
| CH 140  | 5700 MHz  | 16.33                                 | 16.32 | 16.31 | 16.02 | 15.87 | 14.89 | 14.77 | 14.30 |

| Channel | Frequency | 5GHz 802.11n HT20 Peak Power (dBm) |       |       |       |       |       |       |       |
|---------|-----------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                          |       |       |       |       |       |       |       |
|         |           | MCS0                               | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 36   | 5180 MHz  | 22.31                              | 22.25 | 22.42 | 23.20 | 23.15 | 23.08 | 23.18 | 22.40 |
| CH 44   | 5220 MHz  | 22.24                              | 22.38 | 22.37 | 22.94 | 23.24 | 23.12 | 23.07 | 22.72 |
| CH 48   | 5240 MHz  | 22.16                              | 22.17 | 22.38 | 23.10 | 23.25 | 22.91 | 22.93 | 22.71 |
| CH 52   | 5260 MHz  | 22.39                              | 22.16 | 22.33 | 22.94 | 23.13 | 22.92 | 23.02 | 22.79 |
| CH 60   | 5300 MHz  | 22.43                              | 22.12 | 22.32 | 23.01 | 23.11 | 22.81 | 23.01 | 22.63 |
| CH 64   | 5320 MHz  | 22.53                              | 22.45 | 22.36 | 23.18 | 23.27 | 23.21 | 23.24 | 22.60 |
| CH 100  | 5500 MHz  | 22.38                              | 22.56 | 22.69 | 23.15 | 23.41 | 23.45 | 23.36 | 22.74 |
| CH 116  | 5580 MHz  | 22.28                              | 22.30 | 22.58 | 23.16 | 23.30 | 23.20 | 23.26 | 22.76 |
| CH 140  | 5700 MHz  | 22.24                              | 22.15 | 22.45 | 23.14 | 23.19 | 23.23 | 22.81 | 22.61 |



| Channel | Frequency | 5GHz 802.11n HT40 Average Power (dBm) |       |       |       |       |       |       |       |
|---------|-----------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                             |       |       |       |       |       |       |       |
|         |           | MCS0                                  | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 38   | 5190MHz   | 15.40                                 | 15.37 | 15.37 | 15.00 | 15.01 | 13.91 | 13.93 | 13.85 |
| CH 46   | 5230MHz   | 16.01                                 | 16.00 | 15.83 | 15.16 | 15.06 | 14.28 | 14.38 | 13.31 |
| CH 54   | 5270MHz   | 15.97                                 | 15.95 | 15.96 | 15.16 | 15.06 | 14.37 | 13.24 | 13.39 |
| CH 62   | 5310MHz   | 15.98                                 | 15.94 | 15.85 | 15.30 | 15.28 | 14.26 | 14.41 | 13.31 |
| CH 102  | 5510MHz   | 13.49                                 | 13.46 | 13.39 | 13.39 | 13.47 | 13.45 | 13.47 | 12.94 |
| CH 110  | 5550MHz   | 16.03                                 | 15.89 | 15.82 | 15.32 | 15.42 | 14.31 | 14.39 | 13.46 |
| CH 134  | 5670MHz   | 15.87                                 | 15.84 | 15.86 | 15.19 | 15.25 | 14.15 | 14.24 | 13.14 |

| Channel | Frequency | 5GHz 802.11n HT40 Peak Power (dBm) |       |       |       |       |       |       |       |
|---------|-----------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                          |       |       |       |       |       |       |       |
|         |           | MCS0                               | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 38   | 5190MHz   | 21.82                              | 21.79 | 21.69 | 22.75 | 22.69 | 22.05 | 22.06 | 22.25 |
| CH 46   | 5230MHz   | 22.17                              | 22.10 | 21.99 | 22.90 | 22.99 | 22.41 | 22.23 | 22.31 |
| CH 54   | 5270MHz   | 22.30                              | 21.92 | 21.85 | 23.00 | 22.98 | 22.44 | 22.09 | 22.33 |
| CH 62   | 5310MHz   | 22.38                              | 22.30 | 22.23 | 23.30 | 23.35 | 22.93 | 22.62 | 22.41 |
| CH 102  | 5510MHz   | 20.30                              | 20.24 | 20.16 | 22.31 | 21.85 | 21.79 | 21.84 | 21.25 |
| CH 110  | 5550MHz   | 22.30                              | 21.97 | 22.04 | 23.19 | 23.13 | 22.57 | 22.41 | 21.59 |
| CH 134  | 5670MHz   | 22.12                              | 22.08 | 22.05 | 23.23 | 23.21 | 22.69 | 22.46 | 21.50 |



| Channel | Frequency | 5GHz 802.11ac VHT20 Average Power (dBm) |       |       |       |       |       |       |       |       |
|---------|-----------|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                               |       |       |       |       |       |       |       |       |
|         |           | MCS0                                    | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  |
| CH 36   | 5180 MHz  | 16.24                                   | 15.94 | 16.11 | 15.75 | 15.73 | 14.87 | 14.73 | 13.66 | 12.67 |
| CH 44   | 5220 MHz  | 16.29                                   | 16.12 | 16.26 | 15.82 | 15.73 | 15.04 | 14.84 | 13.91 | 12.91 |
| CH 48   | 5240 MHz  | 16.18                                   | 16.00 | 16.07 | 15.71 | 15.55 | 14.80 | 14.59 | 13.60 | 12.49 |
| CH 52   | 5260 MHz  | 16.32                                   | 16.10 | 16.25 | 15.89 | 15.82 | 14.93 | 14.65 | 13.67 | 12.72 |
| CH 60   | 5300 MHz  | 16.62                                   | 16.39 | 16.41 | 15.89 | 15.93 | 15.20 | 15.02 | 14.03 | 13.11 |
| CH 64   | 5320 MHz  | 16.60                                   | 16.37 | 16.47 | 16.00 | 15.97 | 15.16 | 15.02 | 13.95 | 12.97 |
| CH 100  | 5500 MHz  | 16.44                                   | 16.41 | 16.43 | 16.21 | 16.17 | 15.34 | 15.23 | 14.16 | 13.12 |
| CH 116  | 5580 MHz  | 16.26                                   | 16.21 | 16.21 | 16.07 | 15.98 | 15.31 | 14.94 | 13.87 | 13.05 |
| CH 140  | 5700 MHz  | 16.21                                   | 16.06 | 16.14 | 15.76 | 15.79 | 14.85 | 14.76 | 13.63 | 12.74 |

| Channel | Frequency | 5GHz 802.11ac VHT20 Peak Power (dBm) |       |       |       |       |       |       |       |       |
|---------|-----------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                            |       |       |       |       |       |       |       |       |
|         |           | MCS0                                 | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  |
| CH 36   | 5180 MHz  | 22.15                                | 22.29 | 22.31 | 23.04 | 23.12 | 23.05 | 23.34 | 22.35 | 21.58 |
| CH 44   | 5220 MHz  | 22.29                                | 22.54 | 22.38 | 23.03 | 23.06 | 22.85 | 23.37 | 22.50 | 21.88 |
| CH 48   | 5240 MHz  | 22.08                                | 22.25 | 22.27 | 23.04 | 22.96 | 22.95 | 23.22 | 22.42 | 21.66 |
| CH 52   | 5260 MHz  | 22.20                                | 21.93 | 21.98 | 23.02 | 23.07 | 22.99 | 23.15 | 22.30 | 21.86 |
| CH 60   | 5300 MHz  | 22.38                                | 22.42 | 22.39 | 23.04 | 23.21 | 23.14 | 23.19 | 22.34 | 22.41 |
| CH 64   | 5320 MHz  | 22.45                                | 22.56 | 22.45 | 23.13 | 23.15 | 23.13 | 23.26 | 22.39 | 22.49 |
| CH 100  | 5500 MHz  | 22.45                                | 22.42 | 22.36 | 23.33 | 23.37 | 23.23 | 23.46 | 22.90 | 21.25 |
| CH 116  | 5580 MHz  | 22.33                                | 22.48 | 22.49 | 23.19 | 23.12 | 22.95 | 23.37 | 22.74 | 21.64 |
| CH 140  | 5700 MHz  | 22.44                                | 22.38 | 22.43 | 23.20 | 23.27 | 23.25 | 23.18 | 22.41 | 21.89 |



| Channel | Frequency | 5GHz 802.11ac VHT40 Average Power (dBm) |       |       |       |       |       |       |       |       |       |
|---------|-----------|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                               |       |       |       |       |       |       |       |       |       |
|         |           | MCS0                                    | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 38   | 5190MHz   | 14.24                                   | 14.22 | 14.21 | 14.23 | 14.20 | 13.93 | 13.84 | 12.76 | 11.88 | 10.87 |
| CH 46   | 5230MHz   | 15.93                                   | 15.91 | 15.89 | 14.98 | 15.14 | 14.29 | 14.22 | 13.23 | 12.35 | 11.59 |
| CH 54   | 5270MHz   | 15.98                                   | 15.97 | 15.92 | 15.13 | 15.09 | 14.18 | 14.22 | 13.26 | 12.41 | 11.55 |
| CH 62   | 5310MHz   | 15.53                                   | 15.48 | 15.47 | 15.05 | 14.99 | 14.26 | 14.16 | 13.14 | 12.15 | 11.64 |
| CH 102  | 5510MHz   | 13.37                                   | 13.22 | 13.20 | 13.24 | 13.34 | 13.34 | 13.33 | 13.25 | 12.32 | 11.28 |
| CH 110  | 5550MHz   | 15.98                                   | 15.95 | 15.96 | 15.21 | 15.14 | 14.29 | 14.28 | 13.34 | 12.26 | 11.36 |
| CH 134  | 5670MHz   | 16.20                                   | 16.13 | 16.19 | 15.51 | 15.44 | 14.52 | 14.47 | 13.46 | 12.40 | 11.31 |

| Channel | Frequency | 5GHz 802.11ac VHT40 Peak Power (dBm) |       |       |       |       |       |       |       |       |       |
|---------|-----------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                            |       |       |       |       |       |       |       |       |       |
|         |           | MCS0                                 | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 38   | 5190MHz   | 21.21                                | 20.93 | 20.76 | 22.41 | 22.26 | 22.74 | 22.00 | 20.88 | 20.35 | 20.51 |
| CH 46   | 5230MHz   | 22.17                                | 22.08 | 21.96 | 22.54 | 22.34 | 22.78 | 22.03 | 20.59 | 20.22 | 20.04 |
| CH 54   | 5270MHz   | 22.21                                | 21.98 | 21.90 | 22.66 | 22.75 | 22.96 | 21.94 | 20.56 | 20.22 | 19.99 |
| CH 62   | 5310MHz   | 22.25                                | 21.84 | 21.85 | 22.84 | 22.75 | 23.23 | 22.60 | 21.74 | 21.00 | 21.45 |
| CH 102  | 5510MHz   | 20.48                                | 19.98 | 19.85 | 22.25 | 21.96 | 22.65 | 21.77 | 21.17 | 20.91 | 20.77 |
| CH 110  | 5550MHz   | 22.24                                | 22.13 | 22.04 | 22.90 | 22.86 | 23.00 | 22.38 | 20.90 | 20.45 | 20.32 |
| CH 134  | 5670MHz   | 22.23                                | 22.14 | 22.08 | 23.23 | 23.38 | 23.24 | 22.40 | 20.98 | 20.68 | 20.38 |

| Channel | Frequency | 5GHz 802.11ac VHT80 Average Power (dBm) |       |       |       |       |       |       |       |       |       |
|---------|-----------|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                               |       |       |       |       |       |       |       |       |       |
|         |           | MCS0                                    | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 42   | 5210MHz   | 12.66                                   | 12.43 | 12.40 | 12.59 | 12.62 | 12.64 | 12.63 | 11.95 | 10.95 | 10.94 |
| CH 58   | 5290MHz   | 14.83                                   | 14.80 | 14.82 | 14.19 | 14.17 | 13.09 | 12.96 | 12.10 | 11.19 | 11.08 |
| CH 106  | 5530MHz   | 12.94                                   | 12.90 | 12.89 | 12.87 | 12.87 | 12.91 | 12.90 | 12.31 | 11.52 | 11.38 |
| CH 122  | 5610MHz   | 14.99                                   | 14.98 | 14.97 | 14.64 | 14.56 | 13.60 | 13.37 | 12.43 | 11.55 | 11.46 |

| Channel | Frequency | 5GHz 802.11ac VHT80 Peak Power (dBm) |       |       |       |       |       |       |       |       |       |
|---------|-----------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |           | Data Rate                            |       |       |       |       |       |       |       |       |       |
|         |           | MCS0                                 | MCS1  | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 42   | 5210MHz   | 19.62                                | 19.31 | 19.30 | 21.96 | 22.02 | 22.10 | 21.53 | 21.19 | 20.27 | 20.37 |
| CH 58   | 5290MHz   | 21.67                                | 21.45 | 21.42 | 23.07 | 23.03 | 22.06 | 21.66 | 21.73 | 20.59 | 20.42 |
| CH 106  | 5530MHz   | 20.04                                | 19.71 | 19.92 | 21.56 | 21.82 | 21.89 | 21.00 | 21.30 | 20.70 | 20.56 |
| CH 122  | 5610MHz   | 21.51                                | 21.40 | 21.42 | 22.98 | 23.05 | 22.23 | 21.60 | 21.01 | 20.29 | 20.34 |

**Note:** MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

## 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.

### Single Antenna

| 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      |

### MIMO Antenna

| Modulation     | Data Rate |
|----------------|-----------|
| 802.11a        | 6 Mbps    |
| 802.11n HT20   | MCS8      |
| 802.11n HT40   | MCS8      |
| 802.11ac VHT20 | MCS0      |
| 802.11ac VHT40 | MCS0      |
| 802.11ac VHT80 | MCS0      |

| Test Cases            |                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------|
| AC Conducted Emission | Mode 1 : GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + MP3 + Earphone + Adapter |



| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5600 MHz<br>and 5650-5725MHz |
|----------|--------|------------------------|-------------------------|----------------------------------------------|
|          |        | 802.11a                | 802.11a                 | 802.11a                                      |
| L        | Low    | 36                     | 52                      | 100                                          |
| M        | Middle | 44                     | 60                      | 116                                          |
| H        | High   | 48                     | 64                      | 140                                          |
| Straddle |        | -                      | -                       | 144                                          |

| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5600 MHz<br>and 5650-5725MHz |
|----------|--------|------------------------|-------------------------|----------------------------------------------|
|          |        | 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 |        | -                      | -                       | 144                                          |

| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5600 MHz<br>and 5650-5725MHz |
|----------|--------|------------------------|-------------------------|----------------------------------------------|
|          |        | 802.11n HT40           | 802.11n HT40            | 802.11n HT40                                 |
| L        | Low    | 38                     | 54                      | 102                                          |
| M        | Middle | -                      | -                       | 110                                          |
| H        | High   | 46                     | 62                      | 134                                          |
| Straddle |        | -                      | -                       | 142                                          |



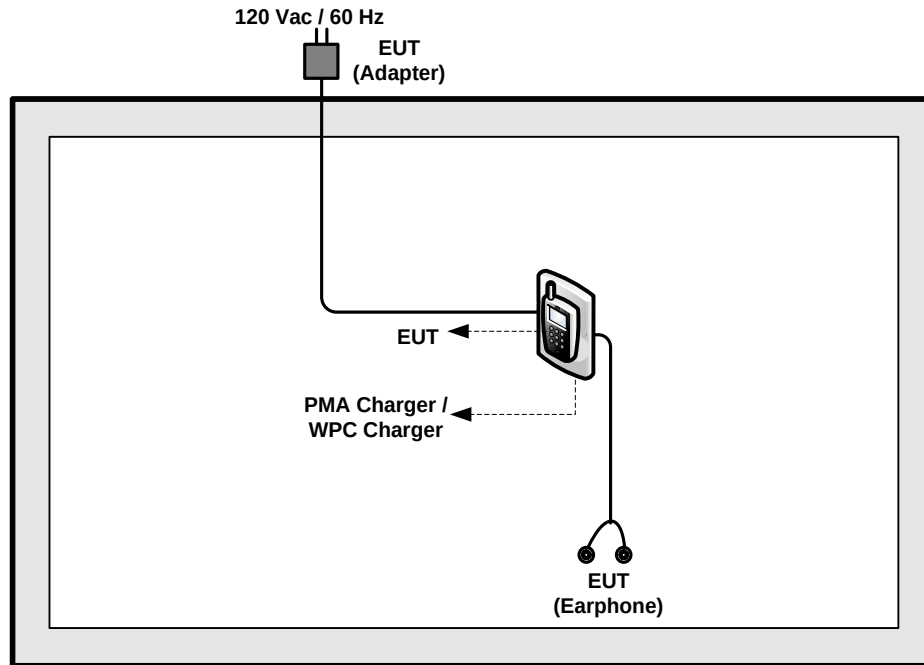
| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5600 MHz<br>and 5650-5725MHz |
|----------|--------|------------------------|-------------------------|----------------------------------------------|
|          |        | 802.11ac VHT20         | 802.11ac VHT20          | 802.11ac VHT20                               |
| L        | Low    | 36                     | 52                      | 100                                          |
| M        | Middle | 44                     | 60                      | 116                                          |
| H        | High   | 48                     | 64                      | 140                                          |
| Straddle |        | -                      | -                       | 144                                          |

| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5600 MHz<br>and 5650-5725MHz |
|----------|--------|------------------------|-------------------------|----------------------------------------------|
|          |        | 802.11ac VHT40         | 802.11ac VHT40          | 802.11ac VHT40                               |
| L        | Low    | 38                     | 54                      | 102                                          |
| M        | Middle | -                      | -                       | 110                                          |
| H        | High   | 46                     | 62                      | 134                                          |
| Straddle |        | -                      | -                       | 142                                          |

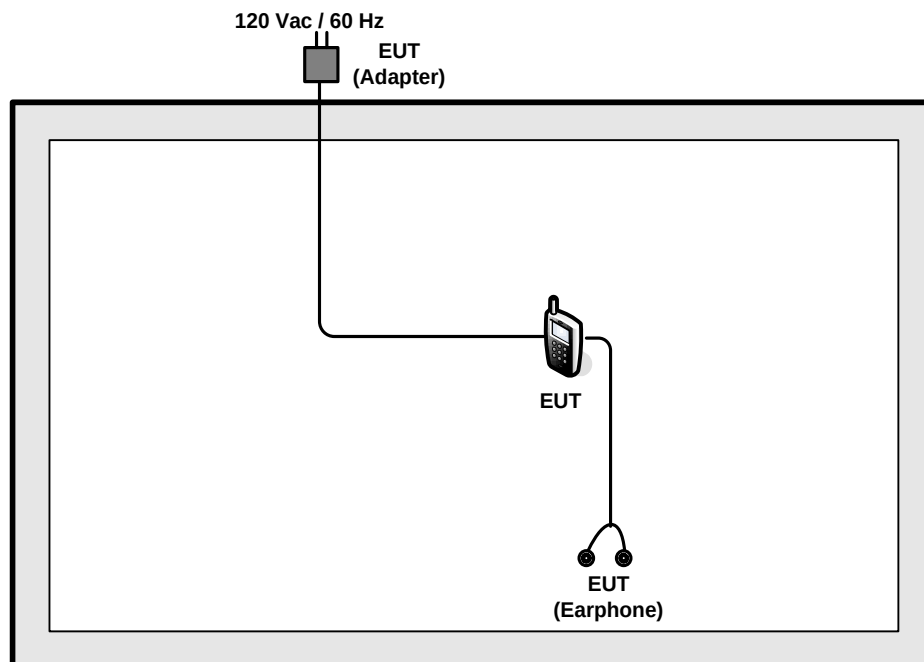
| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5600 MHz<br>and 5650-5725MHz |
|----------|--------|------------------------|-------------------------|----------------------------------------------|
|          |        | 802.11ac VHT80         | 802.11ac VHT80          | 802.11ac VHT80                               |
| L        | Low    | -                      | -                       | -                                            |
| M        | Middle | 42                     | 58                      | 106                                          |
| H        | High   | -                      | -                       | -                                            |
| Straddle |        | -                      | -                       | 138                                          |

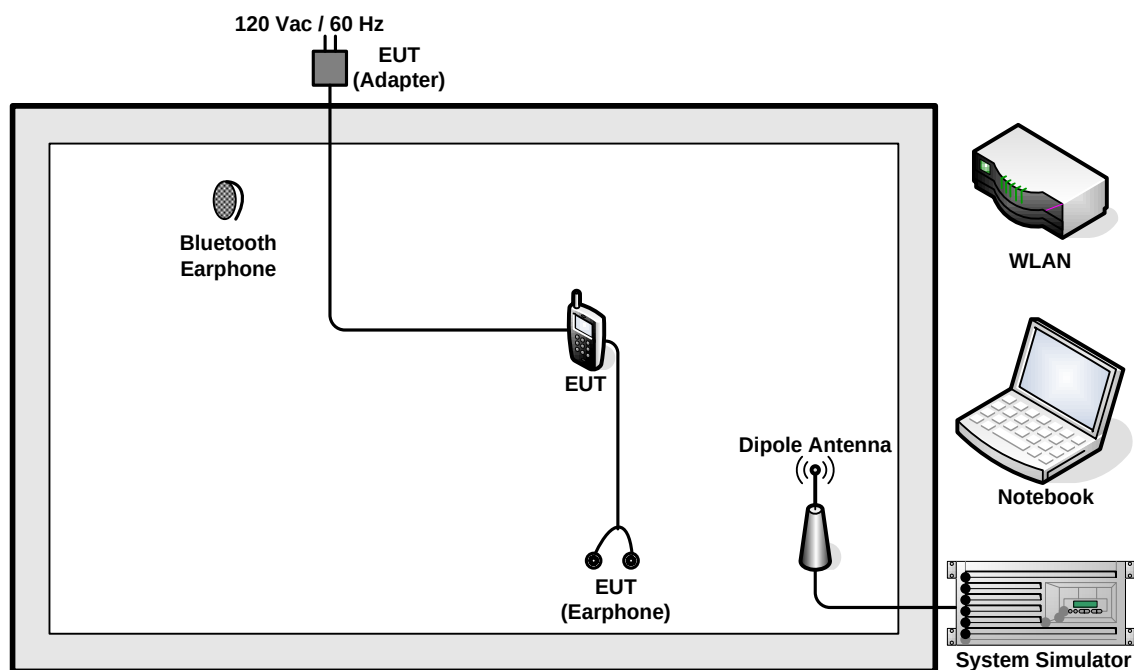
## 2.4 Connection Diagram of Test System

<WLAN Tx Mode with PMA Charger / WPC Charger>



<WLAN Tx Mode with Adapter>



**<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.   | System Simulator   | Anritsu           | MT8820C        | N/A                                          | N/A        | Unshielded, 1.8 m                                          |
| 2.   | Bluetooth Earphone | Sony Ericsson     | MW600          | PY7DDA-2029                                  | N/A        | N/A                                                        |
| 3.   | WLAN AP            | D-Link            | DIR-865L       | KA2IR865LA1                                  | N/A        | Unshielded, 1.8 m                                          |
| 4.   | 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 |
| 5.   | PMA                | Duracell Powermat | M-C 18B-518A   | N/A                                          | N/A        | N/A                                                        |
| 6.   | WPC                | Samsung           | EP-P1001EWE    | A3LEPP100IJWU                                | N/A        | N/A                                                        |
| 7.   | SD Card            | SanDisk           | MicroSD HC     | FCC DoC                                      | N/A        | N/A                                                        |



## 2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, "QRCT" installed in the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

## 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.

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

### 3 Test Result

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

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

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

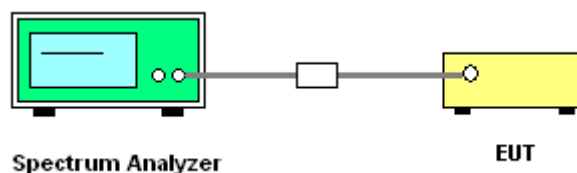
##### 3.1.2 Measuring Instruments

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.

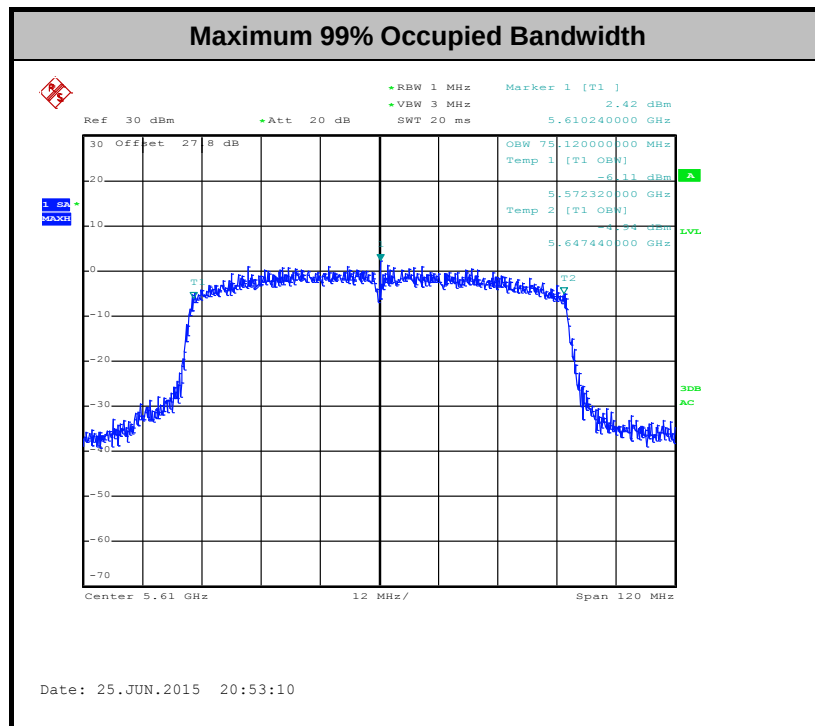
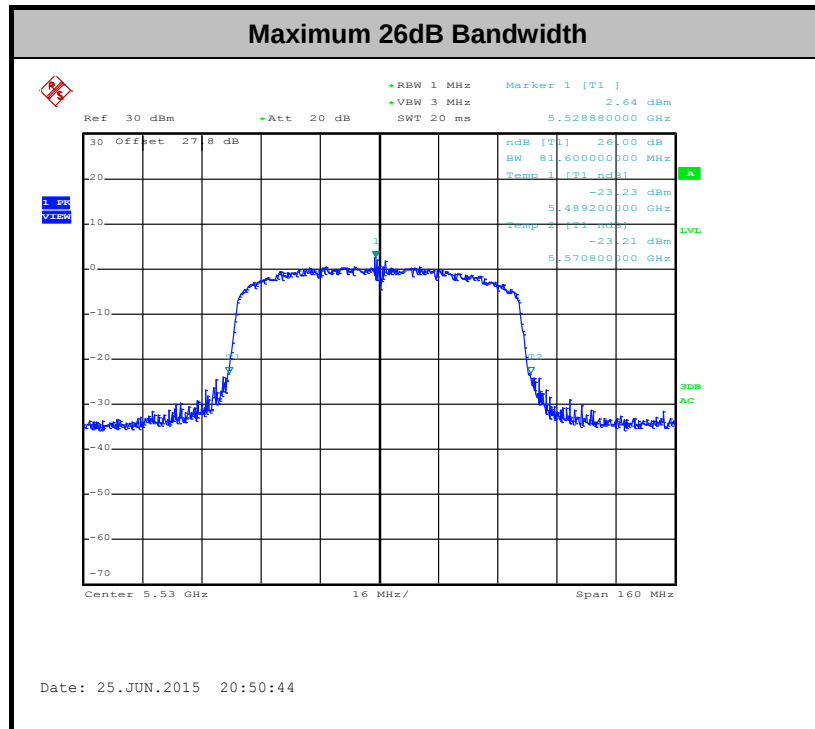
##### 3.1.4 Test Setup





### 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**

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

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.

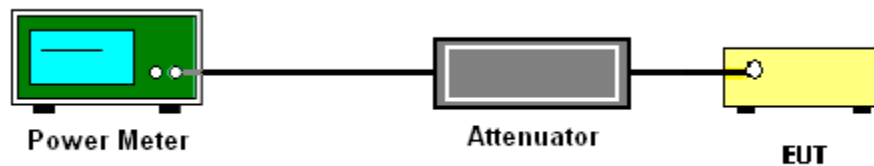
Method PM (Measurement using an RF average power meter):

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.

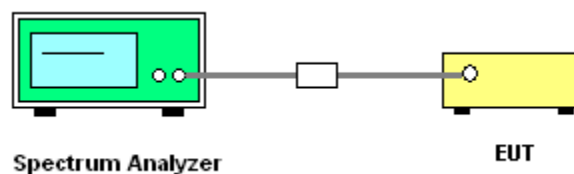
For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

### 3.2.4 Test Setup

For normal channel:



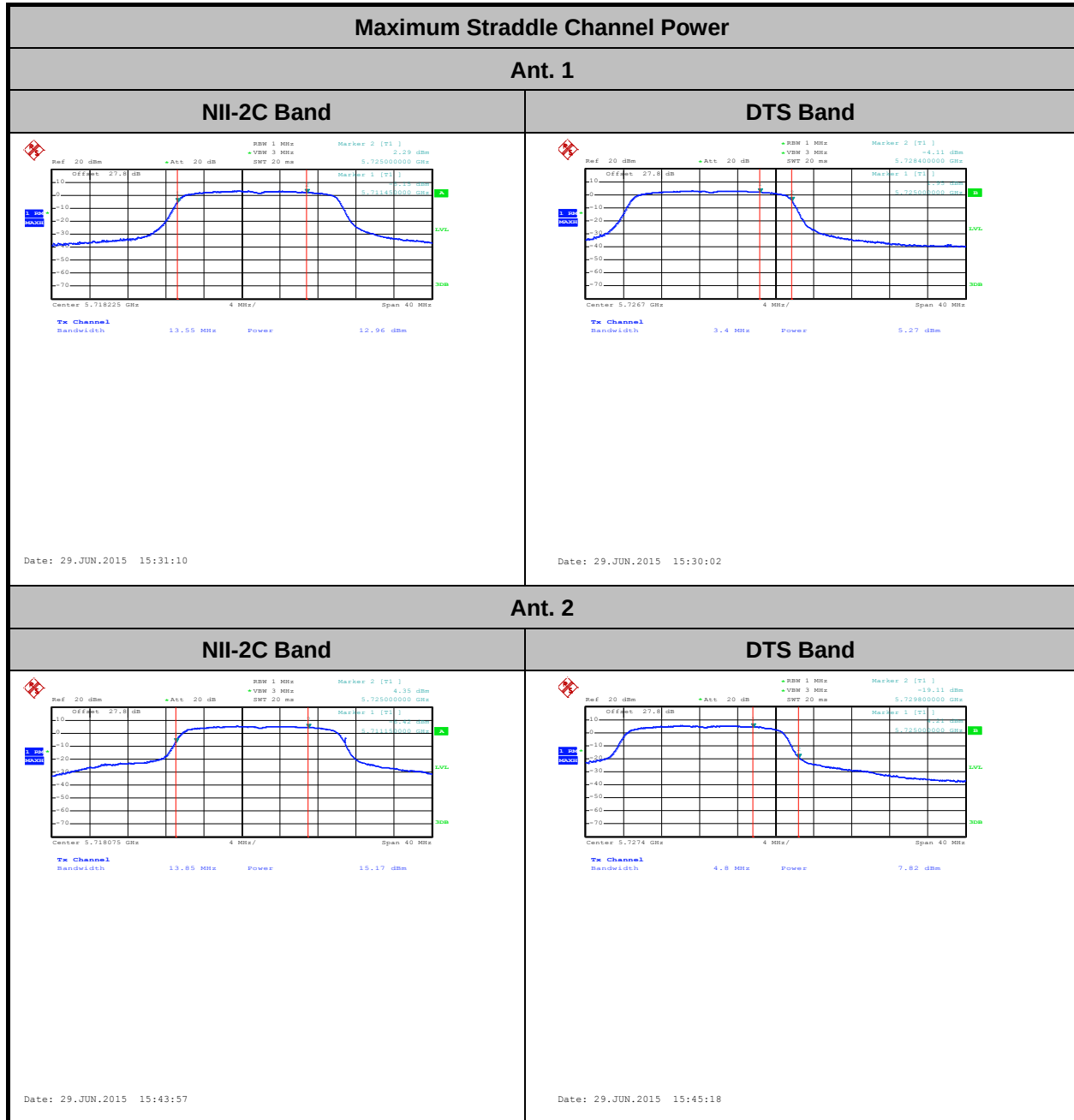
For straddle channel:





### 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

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

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).

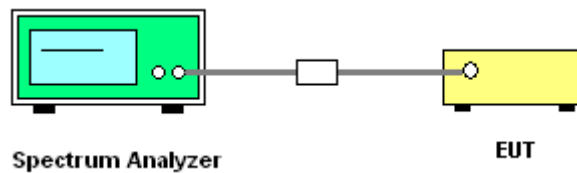
1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
  - Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 1 MHz.
  - Set VBW  $\geq$  3 MHz.
  - Number of points in sweep  $\geq$  2 Span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

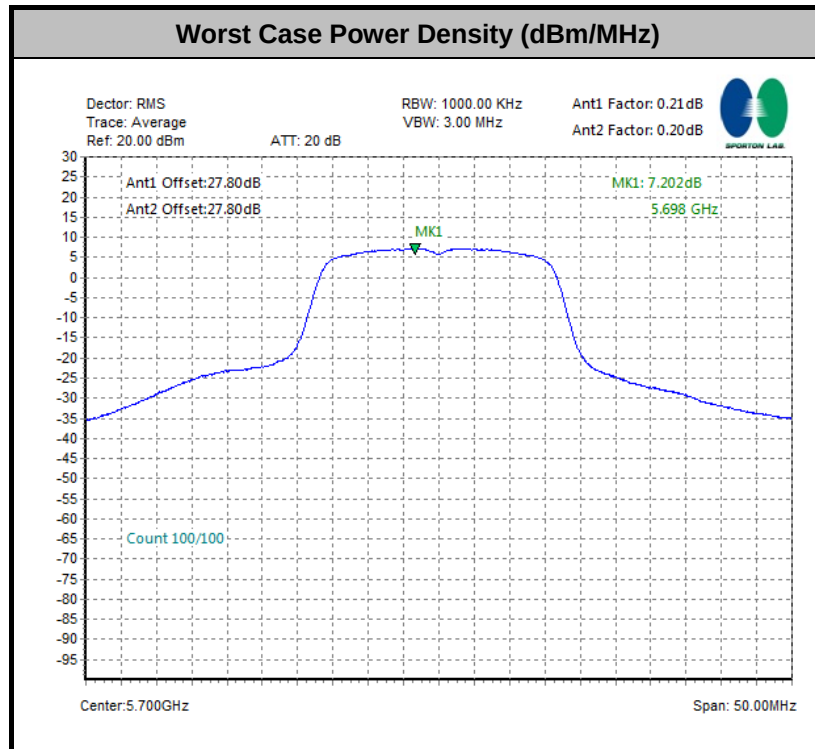
### 3.3.4 Test Setup





### 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.

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

| 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**

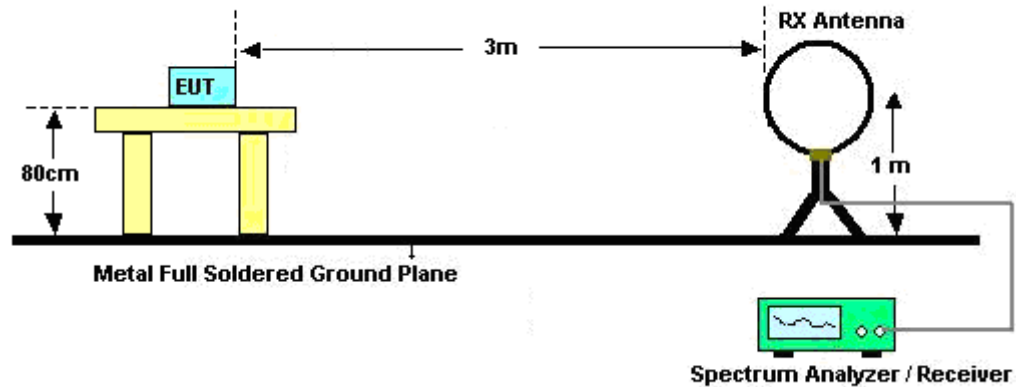
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.  
Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

| Antenna | Band                          | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting |
|---------|-------------------------------|---------------|-------|----------|-------------|
| 0+1     | 5GHz 802.11a for Ant 1        | 98.21         | -     | -        | 10Hz        |
| 0+1     | 5GHz 802.11a for Ant 2        | 98.21         | -     | -        | 10Hz        |
| 0+1     | 5GHz 802.11n HT20 for Ant 1   | 90.83         | 990   | 1.01     | 3kHz        |
| 0+1     | 5GHz 802.11n HT20 for Ant 2   | 90.83         | 990   | 1.01     | 3kHz        |
| 0+1     | 5GHz 802.11n HT40 for Ant 1   | 83            | 498   | 2.01     | 3kHz        |
| 0+1     | 5GHz 802.11n HT40 for Ant 2   | 83.84         | 498   | 2.01     | 3kHz        |
| 0+1     | 5GHz 802.11ac VHT20 for Ant 1 | 95.1          | 1940  | 0.52     | 1kHz        |
| 0+1     | 5GHz 802.11ac VHT20 for Ant 2 | 95.1          | 1940  | 0.52     | 1kHz        |
| 0+1     | 5GHz 802.11ac VHT40 for Ant 1 | 90.48         | 950   | 1.05     | 3kHz        |
| 0+1     | 5GHz 802.11ac VHT40 for Ant 2 | 91.43         | 960   | 1.04     | 3kHz        |
| 0+1     | 5GHz 802.11ac VHT80 for Ant 1 | 82.98         | 468   | 2.14     | 3kHz        |
| 0+1     | 5GHz 802.11ac VHT80 for Ant 2 | 82.98         | 468   | 2.14     | 3kHz        |

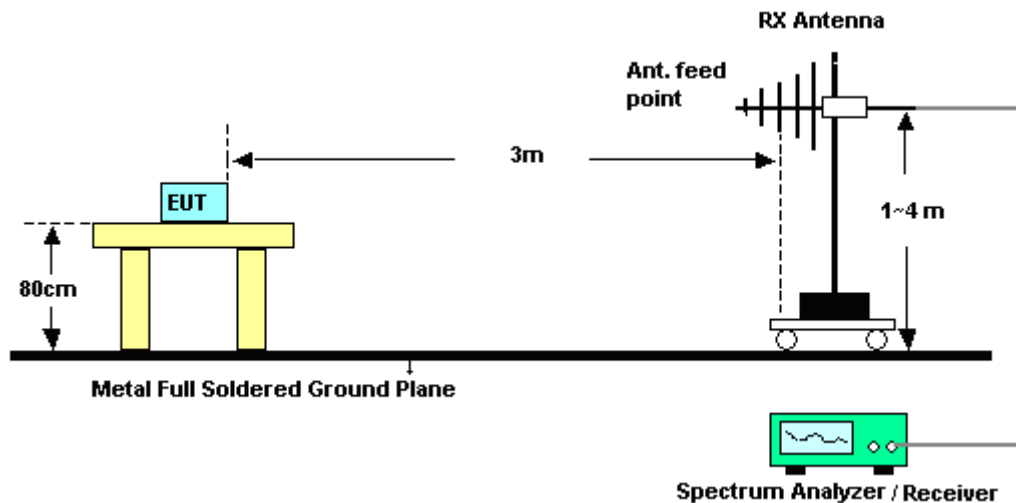
- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The antenna is a broadband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

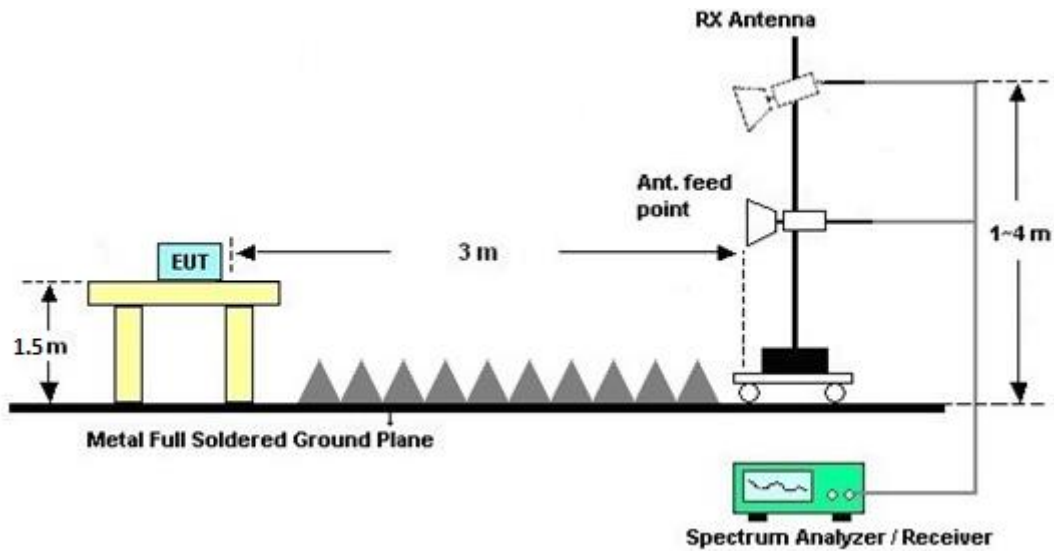
For radiated emissions below 30MHz



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 B.

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

Please refer to Appendix B.

### 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.

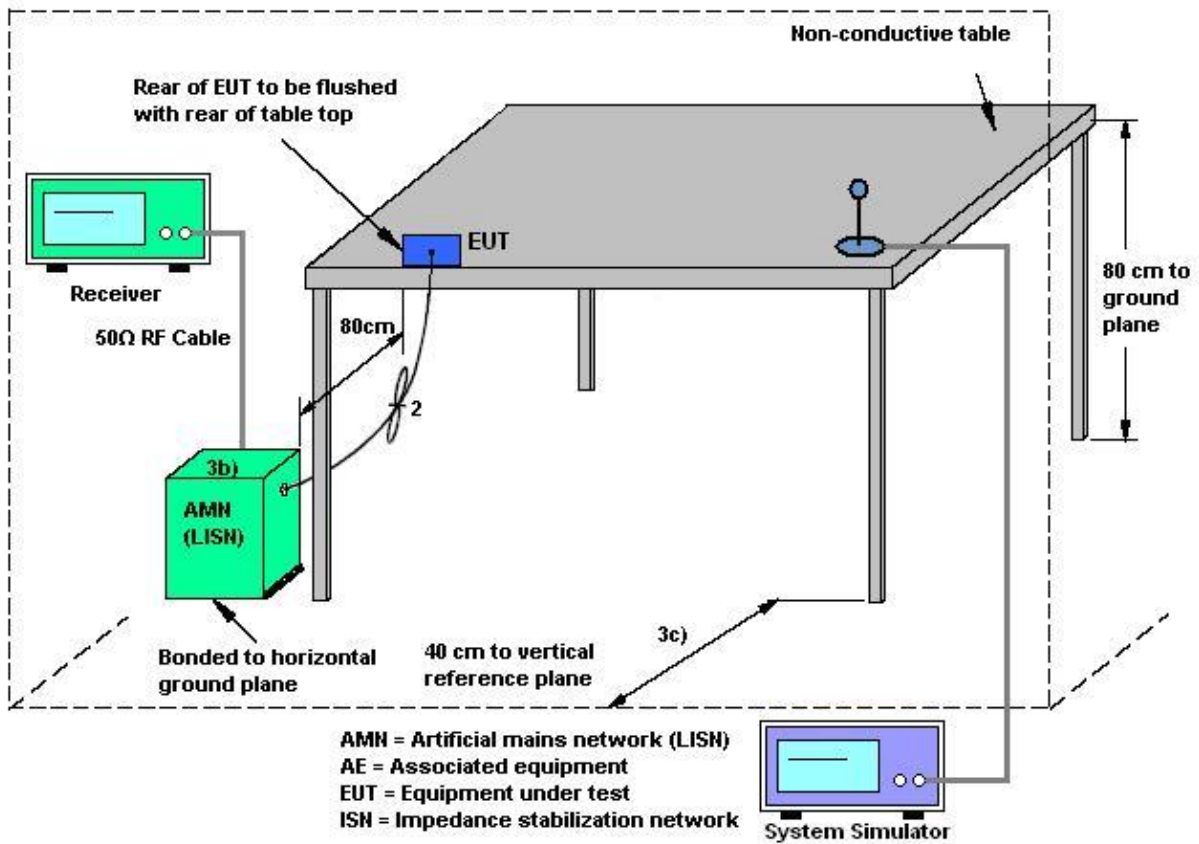
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

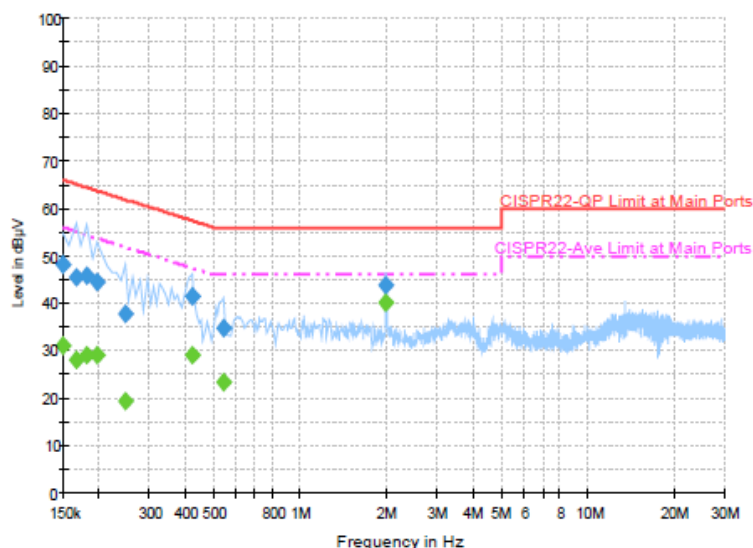
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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



### 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> | 58~59%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                              | <b>Phase :</b>             | Line    |
| <b>Function Type :</b> | GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + MP3 + Earphone + Adapter |                            |         |



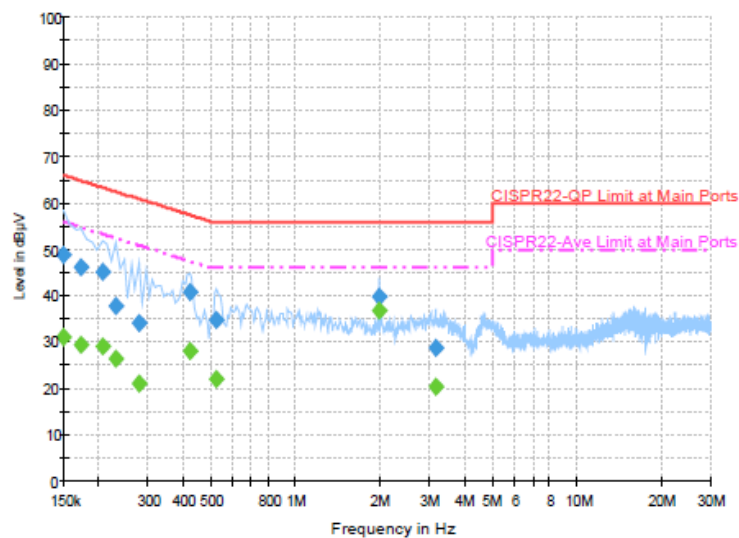
#### Final Result : QuasiPeak

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000        | 48.0             | Off    | L1   | 19.5       | 18.0        | 66.0         |
| 0.166000        | 45.6             | Off    | L1   | 19.4       | 19.6        | 65.2         |
| 0.182000        | 45.7             | Off    | L1   | 19.5       | 18.7        | 64.4         |
| 0.198000        | 44.6             | Off    | L1   | 19.4       | 19.1        | 63.7         |
| 0.246000        | 37.6             | Off    | L1   | 19.5       | 24.3        | 61.9         |
| 0.422000        | 41.5             | Off    | L1   | 19.5       | 15.9        | 57.4         |
| 0.542000        | 34.6             | Off    | L1   | 19.4       | 21.4        | 56.0         |
| 1.998000        | 44.0             | Off    | L1   | 19.7       | 12.0        | 56.0         |

#### Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 31.1           | Off    | L1   | 19.5       | 24.9        | 56.0         |
| 0.166000        | 28.2           | Off    | L1   | 19.4       | 27.0        | 55.2         |
| 0.182000        | 29.1           | Off    | L1   | 19.5       | 25.3        | 54.4         |
| 0.198000        | 29.0           | Off    | L1   | 19.4       | 24.7        | 53.7         |
| 0.246000        | 19.3           | Off    | L1   | 19.5       | 32.6        | 51.9         |
| 0.422000        | 29.1           | Off    | L1   | 19.5       | 18.3        | 47.4         |
| 0.542000        | 23.4           | Off    | L1   | 19.4       | 22.6        | 46.0         |
| 1.998000        | 40.1           | Off    | L1   | 19.7       | 5.9         | 46.0         |

|                        |                                                                            |                            |         |
|------------------------|----------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 1                                                                     | <b>Temperature :</b>       | 23~25°C |
| <b>Test Engineer :</b> | Eric Jeng                                                                  | <b>Relative Humidity :</b> | 58~59%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                              | <b>Phase :</b>             | Neutral |
| <b>Function Type :</b> | GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + MP3 + Earphone + Adapter |                            |         |


**Final Result : QuasiPeak**

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000        | 48.7             | Off    | N    | 19.5       | 17.3        | 66.0         |
| 0.174000        | 46.2             | Off    | N    | 19.5       | 18.6        | 64.8         |
| 0.206000        | 45.0             | Off    | N    | 19.4       | 18.4        | 63.4         |
| 0.230000        | 37.8             | Off    | N    | 19.6       | 24.6        | 62.4         |
| 0.278000        | 34.1             | Off    | N    | 19.4       | 26.8        | 60.9         |
| 0.422000        | 40.7             | Off    | N    | 19.5       | 16.7        | 57.4         |
| 0.526000        | 34.8             | Off    | N    | 19.4       | 21.2        | 56.0         |
| 1.998000        | 39.8             | Off    | N    | 19.7       | 16.2        | 56.0         |
| 3.150000        | 28.7             | Off    | N    | 19.7       | 27.3        | 56.0         |

**Final Result : Average**

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 31.1           | Off    | N    | 19.5       | 24.9        | 56.0         |
| 0.174000        | 29.4           | Off    | N    | 19.5       | 25.4        | 54.8         |
| 0.206000        | 29.0           | Off    | N    | 19.4       | 24.4        | 53.4         |
| 0.230000        | 26.4           | Off    | N    | 19.6       | 26.0        | 52.4         |
| 0.278000        | 21.1           | Off    | N    | 19.4       | 29.8        | 50.9         |
| 0.422000        | 28.1           | Off    | N    | 19.5       | 19.3        | 47.4         |
| 0.526000        | 22.2           | Off    | N    | 19.4       | 23.8        | 46.0         |
| 1.998000        | 36.9           | Off    | N    | 19.7       | 9.1         | 46.0         |
| 3.150000        | 20.5           | Off    | N    | 19.7       | 25.5        | 46.0         |

## 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.

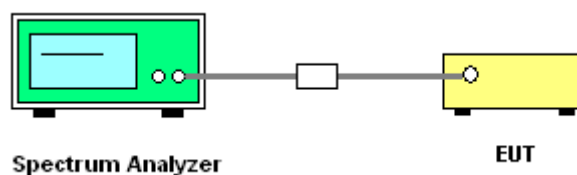
### 3.6.2 Measuring Instruments

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

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

where

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

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

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

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

The EUT supports CDD mode.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

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



|          |                |                | DG<br>for<br>Power<br>(dBi) | DG<br>for<br>PSD<br>(dBi) | Power<br>Limit<br>Reduction<br>(dB) | PSD<br>Limit<br>Reduction<br>(dB) |
|----------|----------------|----------------|-----------------------------|---------------------------|-------------------------------------|-----------------------------------|
|          | Ant 1<br>(dBi) | Ant 2<br>(dBi) |                             |                           |                                     |                                   |
| Band I   | -0.80          | -4.70          | 0.48                        | 0.48                      | 0.00                                | 0.00                              |
| Band II  | -0.80          | -4.50          | 0.56                        | 0.56                      | 0.00                                | 0.00                              |
| Band III | -0.90          | -3.70          | 0.82                        | 0.82                      | 0.00                                | 0.00                              |

*Power Limit Reduction = DG(Power) – 6dBi, ( min = 0 )*

*PSD Limit Reduction = DG(PSD) – 6dBi, ( min = 0 )*



## 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    | Jun. 10, 2015~<br>Jul. 01, 2015 | Oct. 17, 2015 | Conducted<br>(TH05-HY)   |
| Spectrum Analyzer                 | Rohde & Schwarz | FSP40                      | 100057      | 9kHz-40GHz      | Oct. 17, 2014    | Jun. 10, 2015~<br>Jul. 01, 2015 | Oct. 16, 2015 | Conducted<br>(TH05-HY)   |
| Power Sensor                      | Anritsu         | MA2411B                    | 1126017     | 300MHz~40GHz    | Oct. 18, 2014    | Jun. 10, 2015~<br>Jul. 01, 2015 | Oct. 17, 2015 | Conducted<br>(TH05-HY)   |
| Bilog Antenna                     | Schaffner       | CBL6111C                   | 2726        | 30MHz ~ 1GHz    | Sep. 27, 2014    | Jun. 19, 2015~<br>Jun. 24, 2015 | Sep. 26, 2015 | Radiation<br>(03CH07-HY) |
| Double Ridge Horn Antenna         | ESCO            | 3117                       | 00075962    | 1GHz ~ 18GHz    | Aug. 19, 2014    | Jun. 19, 2015~<br>Jun. 24, 2015 | Aug. 18, 2015 | Radiation<br>(03CH07-HY) |
| EMI Test Receiver                 | Rohde & Schwarz | ESCI 7                     | 100724      | 9kHz~7GHz       | Aug. 30, 2014    | Jun. 19, 2015~<br>Jun. 24, 2015 | Aug. 29, 2015 | Radiation<br>(03CH07-HY) |
| Loop Antenna                      | Rohde & Schwarz | HFH2-Z2                    | 100315      | 9 kHz~30 MHz    | Jul. 28, 2014    | Jun. 19, 2015~<br>Jun. 24, 2015 | Jul. 27, 2015 | Radiation<br>(03CH07-HY) |
| Horn Antenna                      | SCHWARZBECK     | BBHA 9170                  | BBHA9170584 | 18GHz- 40GHz    | Nov. 03, 2014    | Jun. 19, 2015~<br>Jun. 24, 2015 | Nov. 02, 2015 | Radiation<br>(03CH07-HY) |
| Preamplifier                      | MITEQ           | AMF-7D-0010<br>1800-30-10P | 1590075     | 1GHz ~ 18GHz    | Apr. 20, 2015    | Jun. 19, 2015~<br>Jun. 24, 2015 | Apr. 19, 2016 | Radiation<br>(03CH07-HY) |
| Preamplifier                      | COM-POWER       | PA-103A                    | 161241      | 10MHz-1000MHz   | Mar. 12, 2015    | Jun. 19, 2015~<br>Jun. 24, 2015 | Mar. 11, 2016 | Radiation<br>(03CH07-HY) |
| Preamplifier                      | Agilent         | 8449B                      | 3008A02362  | 1GHz~ 26.5GHz   | Oct. 21, 2014    | Jun. 19, 2015~<br>Jun. 24, 2015 | Oct. 20, 2015 | Radiation<br>(03CH07-HY) |
| Signal Analyzer                   | Rohde & Schwarz | FSV 30                     | 101749      | 10Hz~30GHz      | Mar. 10, 2015    | Jun. 19, 2015~<br>Jun. 24, 2015 | Mar. 09, 2016 | Radiation<br>(03CH07-HY) |
| Antenna Mast                      | Max-Full        | MFA520BS                   | N/A         | 1m~4m           | N/A              | Jun. 19, 2015~<br>Jun. 24, 2015 | N/A           | Radiation<br>(03CH07-HY) |
| Turn Table                        | ChainTek        | Chaintek 3000              | N/A         | 0~360 degree    | N/A              | Jun. 19, 2015~<br>Jun. 24, 2015 | N/A           | Radiation<br>(03CH07-HY) |
| Preamplifier                      | MITEQ           | JS44-1800400<br>0-33-8P    | 1840917     | 18GHz ~ 40GHz   | Jun. 02, 2015    | Jun. 19, 2015~<br>Jun. 24, 2015 | Jun. 01, 2016 | Radiation<br>(03CH07-HY) |
| EMI Test Receiver                 | Rohde & Schwarz | ESCS 30                    | 100356      | 9kHz ~ 2.75GHz  | Dec. 01, 2014    | Jun. 20, 2015                   | Nov. 30, 2015 | Conduction<br>(CO05-HY)  |
| LISN                              | Rohde & Schwarz | ENV216                     | 100080      | 9kHz~30MHz      | Dec. 02, 2014    | Jun. 20, 2015                   | Dec. 01, 2015 | Conduction<br>(CO05-HY)  |
| LISN<br>(for auxiliary equipment) | Rohde & Schwarz | ENV216                     | 100081      | 9kHz ~ 30MHz    | Dec. 08, 2014    | Jun. 20, 2015                   | Dec. 07, 2015 | Conduction<br>(CO05-HY)  |
| AC Power Source                   | ChainTek        | APC-1000W                  | N/A         | N/A             | N/A              | Jun. 20, 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<br>of 95% ( $U = 2Uc(y)$ ) | 2.26 |
|----------------------------------------------------------------------------|------|

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

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



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

|                |                     |                    |      |    |
|----------------|---------------------|--------------------|------|----|
| Test Engineer: | osolemio Chang      | Temperature:       | 23.8 | °C |
| Test Date:     | 2015/6/10~2015/6/30 | Relative Humidity: | 53   | %  |

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

| Band I |           |     |     |             |                     |       |                       |       |                                    |       |                                   |       |      |
|--------|-----------|-----|-----|-------------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|------|
| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | Note |
|        |           |     |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 |      |
| 11a    | 6Mbps     | 2   | 36  | 5180        | 17.05               | 19.95 | 21.20                 | 35.80 | -                                  | -     | 22.32                             | -     |      |
| 11a    | 6Mbps     | 2   | 44  | 5220        | 16.95               | 22.05 | 21.40                 | 37.25 | -                                  | -     | 22.29                             | -     |      |
| 11a    | 6Mbps     | 2   | 48  | 5240        | 16.95               | 17.65 | 21.25                 | 33.95 | -                                  | -     | 22.29                             | -     |      |
| HT20   | MCS8      | 2   | 36  | 5180        | 17.95               | 17.95 | 22.00                 | 21.75 | -                                  | -     | 22.54                             | -     |      |
| HT20   | MCS8      | 2   | 44  | 5220        | 17.90               | 17.95 | 22.15                 | 21.90 | -                                  | -     | 22.53                             | -     |      |
| HT20   | MCS8      | 2   | 48  | 5240        | 17.90               | 18.00 | 22.25                 | 21.90 | -                                  | -     | 22.53                             | -     |      |
| HT40   | MCS8      | 2   | 38  | 5190        | 36.10               | 36.10 | 41.58                 | 41.31 | -                                  | -     | 23.01                             | -     |      |
| HT40   | MCS8      | 2   | 46  | 5230        | 36.10               | 36.20 | 41.49                 | 42.03 | -                                  | -     | 23.01                             | -     |      |
| VHT20  | MCS0      | 2   | 36  | 5180        | 17.90               | 18.05 | 21.85                 | 22.25 | -                                  | -     | 22.53                             | -     |      |
| VHT20  | MCS0      | 2   | 44  | 5220        | 17.85               | 18.00 | 22.10                 | 22.25 | -                                  | -     | 22.52                             | -     |      |
| VHT20  | MCS0      | 2   | 48  | 5240        | 17.85               | 18.00 | 22.00                 | 22.05 | -                                  | -     | 22.52                             | -     |      |
| VHT40  | MCS0      | 2   | 38  | 5190        | 36.10               | 36.10 | 41.67                 | 41.22 | -                                  | -     | 23.01                             | -     |      |
| VHT40  | MCS0      | 2   | 46  | 5230        | 36.10               | 36.20 | 41.85                 | 42.39 | -                                  | -     | 23.01                             | -     |      |
| VHT80  | MCS6      | 2   | 42  | 5210        | 74.88               | 74.76 | 80.64                 | 80.80 | -                                  | -     | 23.01                             | -     |      |

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

| FCC Band I |           |     |     |             |                  |       |                               |       |       |                                 |       |          |       |  |           |
|------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|--|-----------|
| Mod.       | Data Rate | NTx | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       |  | Pass/Fail |
|            |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |  |           |
| 11a        | 6Mbps     | 2   | 36  | 5180        | 0.21             | 0.20  | 12.90                         | 13.55 | 16.25 | 24.00                           |       | 0.48     |       |  | Pass      |
| 11a        | 6Mbps     | 2   | 44  | 5220        | 0.21             | 0.20  | 12.85                         | 13.55 | 16.22 | 24.00                           |       | 0.48     |       |  | Pass      |
| 11a        | 6Mbps     | 2   | 48  | 5240        | 0.21             | 0.20  | 12.75                         | 13.55 | 16.18 | 24.00                           |       | 0.48     |       |  | Pass      |
| HT20       | MCS8      | 2   | 36  | 5180        | 0.42             | 0.42  | 12.66                         | 13.87 | 16.32 | 24.00                           |       | 0.48     |       |  | Pass      |
| HT20       | MCS8      | 2   | 44  | 5220        | 0.42             | 0.42  | 12.57                         | 13.99 | 16.35 | 24.00                           |       | 0.48     |       |  | Pass      |
| HT20       | MCS8      | 2   | 48  | 5240        | 0.42             | 0.42  | 12.48                         | 14.01 | 16.32 | 24.00                           |       | 0.48     |       |  | Pass      |
| HT40       | MCS8      | 2   | 38  | 5190        | 0.81             | 0.77  | 11.85                         | 12.88 | 15.40 | 24.00                           |       | 0.48     |       |  | Pass      |
| HT40       | MCS8      | 2   | 46  | 5230        | 0.81             | 0.77  | 12.31                         | 13.60 | 16.01 | 24.00                           |       | 0.48     |       |  | Pass      |
| VHT20      | MCS0      | 2   | 36  | 5180        | 0.22             | 0.22  | 12.56                         | 13.82 | 16.24 | 24.00                           |       | 0.48     |       |  | Pass      |
| VHT20      | MCS0      | 2   | 44  | 5220        | 0.22             | 0.22  | 12.46                         | 13.97 | 16.29 | 24.00                           |       | 0.48     |       |  | Pass      |
| VHT20      | MCS0      | 2   | 48  | 5240        | 0.22             | 0.22  | 12.31                         | 13.89 | 16.18 | 24.00                           |       | 0.48     |       |  | Pass      |
| VHT40      | MCS0      | 2   | 38  | 5190        | 0.43             | 0.39  | 10.70                         | 11.70 | 14.24 | 24.00                           |       | 0.48     |       |  | Pass      |
| VHT40      | MCS0      | 2   | 46  | 5230        | 0.43             | 0.39  | 12.17                         | 13.56 | 15.93 | 24.00                           |       | 0.48     |       |  | Pass      |
| VHT80      | MCS6      | 2   | 42  | 5210        | 0.81             | 0.81  | 9.04                          | 10.19 | 12.66 | 24.00                           |       | 0.48     |       |  | Pass      |

| IC Band I |           |     |     |             |                  |       |                               |       |       |                                |       |          |       |                           |       |            |
|-----------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|--------------------------------|-------|----------|-------|---------------------------|-------|------------|
| Mod.      | Data Rate | NTx | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | IC Conducted Power Limit (dBm) |       | DG (dBi) |       | IC EIRP Power Limit (dBm) |       | Pass /Fail |
|           |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                          | Ant 2 | Ant 1    | Ant 2 | Ant 1                     | Ant 2 |            |
| 11a       | 6Mbps     | 2   | 36  | 5180        | 0.21             | 0.20  | 12.90                         | 13.55 | 16.25 | 21.84                          |       | 0.48     |       | 22.32                     | Pass  |            |
| 11a       | 6Mbps     | 2   | 44  | 5220        | 0.21             | 0.20  | 12.85                         | 13.55 | 16.22 | 21.81                          |       | 0.48     |       | 22.29                     | Pass  |            |
| 11a       | 6Mbps     | 2   | 48  | 5240        | 0.21             | 0.20  | 12.75                         | 13.55 | 16.18 | 21.81                          |       | 0.48     |       | 22.29                     | Pass  |            |
| HT20      | MCS8      | 2   | 36  | 5180        | 0.42             | 0.42  | 12.66                         | 13.87 | 16.32 | 22.06                          |       | 0.48     |       | 22.54                     | Pass  |            |
| HT20      | MCS8      | 2   | 44  | 5220        | 0.42             | 0.42  | 12.57                         | 13.99 | 16.35 | 22.05                          |       | 0.48     |       | 22.53                     | Pass  |            |
| HT20      | MCS8      | 2   | 48  | 5240        | 0.42             | 0.42  | 12.48                         | 14.01 | 16.32 | 22.05                          |       | 0.48     |       | 22.53                     | Pass  |            |
| HT40      | MCS8      | 2   | 38  | 5190        | 0.81             | 0.77  | 11.85                         | 12.88 | 15.40 | 22.53                          |       | 0.48     |       | 23.01                     | Pass  |            |
| HT40      | MCS8      | 2   | 46  | 5230        | 0.81             | 0.77  | 12.31                         | 13.60 | 16.01 | 22.53                          |       | 0.48     |       | 23.01                     | Pass  |            |
| VHT20     | MCS0      | 2   | 36  | 5180        | 0.22             | 0.22  | 12.56                         | 13.82 | 16.24 | 22.05                          |       | 0.48     |       | 22.53                     | Pass  |            |
| VHT20     | MCS0      | 2   | 44  | 5220        | 0.22             | 0.22  | 12.46                         | 13.97 | 16.29 | 22.04                          |       | 0.48     |       | 22.52                     | Pass  |            |
| VHT20     | MCS0      | 2   | 48  | 5240        | 0.22             | 0.22  | 12.31                         | 13.89 | 16.18 | 22.04                          |       | 0.48     |       | 22.52                     | Pass  |            |
| VHT40     | MCS0      | 2   | 38  | 5190        | 0.43             | 0.39  | 10.70                         | 11.70 | 14.24 | 22.53                          |       | 0.48     |       | 23.01                     | Pass  |            |
| VHT40     | MCS0      | 2   | 46  | 5230        | 0.43             | 0.39  | 12.17                         | 13.56 | 15.93 | 22.53                          |       | 0.48     |       | 23.01                     | Pass  |            |
| VHT80     | MCS6      | 2   | 42  | 5210        | 0.81             | 0.81  | 9.04                          | 10.19 | 12.66 | 22.53                          |       | 0.48     |       | 23.01                     | Pass  |            |

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

| FCC Band I |           |     |     |             |                  |       |                                 |       |       |                             |       |          |       |      |            |
|------------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|------|------------|
| Mod.       | Data Rate | NTx | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       |      | Pass /Fail |
|            |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |      |            |
| 11a        | 6Mbps     | 2   | 36  | 5180        | 0.21             | 0.20  |                                 |       | 6.52  | 11.00                       | 0.48  |          |       | Pass |            |
| 11a        | 6Mbps     | 2   | 44  | 5220        | 0.21             | 0.20  |                                 |       | 6.81  | 11.00                       | 0.48  |          |       | Pass |            |
| 11a        | 6Mbps     | 2   | 48  | 5240        | 0.21             | 0.20  |                                 |       | 6.55  | 11.00                       | 0.48  |          |       | Pass |            |
| HT20       | MCS8      | 2   | 36  | 5180        | 0.42             | 0.42  |                                 |       | 4.15  | 11.00                       | 0.48  |          |       | Pass |            |
| HT20       | MCS8      | 2   | 44  | 5220        | 0.42             | 0.42  |                                 |       | 4.18  | 11.00                       | 0.48  |          |       | Pass |            |
| HT20       | MCS8      | 2   | 48  | 5240        | 0.42             | 0.42  |                                 |       | 4.00  | 11.00                       | 0.48  |          |       | Pass |            |
| HT40       | MCS8      | 2   | 38  | 5190        | 0.81             | 0.77  |                                 |       | 0.84  | 11.00                       | 0.48  |          |       | Pass |            |
| HT40       | MCS8      | 2   | 46  | 5230        | 0.81             | 0.77  |                                 |       | 0.19  | 11.00                       | 0.48  |          |       | Pass |            |
| VHT20      | MCS0      | 2   | 36  | 5180        | 0.22             | 0.22  |                                 |       | 4.26  | 11.00                       | 0.48  |          |       | Pass |            |
| VHT20      | MCS0      | 2   | 44  | 5220        | 0.22             | 0.22  |                                 |       | 4.22  | 11.00                       | 0.48  |          |       | Pass |            |
| VHT20      | MCS0      | 2   | 48  | 5240        | 0.22             | 0.22  |                                 |       | 4.01  | 11.00                       | 0.48  |          |       | Pass |            |
| VHT40      | MCS0      | 2   | 38  | 5190        | 0.43             | 0.39  |                                 |       | 0.03  | 11.00                       | 0.48  |          |       | Pass |            |
| VHT40      | MCS0      | 2   | 46  | 5230        | 0.43             | 0.39  |                                 |       | 0.53  | 11.00                       | 0.48  |          |       | Pass |            |
| VHT80      | MCS6      | 2   | 42  | 5210        | 0.81             | 0.81  |                                 |       | -5.06 | 11.00                       | 0.48  |          |       | Pass |            |

| IC Band I |           |     |     |             |                  |       |                                 |       |       |                             |       |          |       |                             |       |            |
|-----------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|-----------------------------|-------|------------|
| Mod.      | Data Rate | NTx | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | IC EIRP PSD Limit (dBm/MHz) |       | Pass /Fail |
|           |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 | Ant 1                       | Ant 2 |            |
| 11a       | 6Mbps     | 2   | 36  | 5180        | 0.21             | 0.20  |                                 |       | 6.52  | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |
| 11a       | 6Mbps     | 2   | 44  | 5220        | 0.21             | 0.20  |                                 |       | 6.81  | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |
| 11a       | 6Mbps     | 2   | 48  | 5240        | 0.21             | 0.20  |                                 |       | 6.55  | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |
| HT20      | MCS8      | 2   | 36  | 5180        | 0.42             | 0.42  |                                 |       | 4.15  | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |
| HT20      | MCS8      | 2   | 44  | 5220        | 0.42             | 0.42  |                                 |       | 4.18  | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |
| HT20      | MCS8      | 2   | 48  | 5240        | 0.42             | 0.42  |                                 |       | 4.00  | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |
| HT40      | MCS8      | 2   | 38  | 5190        | 0.81             | 0.77  |                                 |       | 0.84  | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |
| HT40      | MCS8      | 2   | 46  | 5230        | 0.81             | 0.77  |                                 |       | 0.19  | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |
| VHT20     | MCS0      | 2   | 36  | 5180        | 0.22             | 0.22  |                                 |       | 4.26  | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |
| VHT20     | MCS0      | 2   | 44  | 5220        | 0.22             | 0.22  |                                 |       | 4.22  | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |
| VHT20     | MCS0      | 2   | 48  | 5240        | 0.22             | 0.22  |                                 |       | 4.01  | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |
| VHT40     | MCS0      | 2   | 38  | 5190        | 0.43             | 0.39  |                                 |       | 0.03  | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |
| VHT40     | MCS0      | 2   | 46  | 5230        | 0.43             | 0.39  |                                 |       | 0.53  | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |
| VHT80     | MCS6      | 2   | 42  | 5210        | 0.81             | 0.81  |                                 |       | -5.06 | 9.52                        | 0.48  | 10       | 10    | 10                          | 10    | Pass       |

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

| Band II |           |     |     |             |                     |       |                       |       |                                    |       |                                   |       |                                      |       |      |
|---------|-----------|-----|-----|-------------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|------|
| Mod.    | Data Rate | NTx | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       | Note |
|         |           |     |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 |      |
| 11a     | 6Mbps     | 2   | 52  | 5260        | 16.95               | 18.45 | 21.20                 | 34.60 | 23.29                              |       | 29.29                             |       | 23.98                                |       |      |
| 11a     | 6Mbps     | 2   | 60  | 5300        | 17.00               | 20.70 | 22.25                 | 37.00 | 23.30                              |       | 29.30                             |       | 23.98                                |       |      |
| 11a     | 6Mbps     | 2   | 64  | 5320        | 17.00               | 18.75 | 21.80                 | 34.90 | 23.30                              |       | 29.30                             |       | 23.98                                |       |      |
| HT20    | MCS8      | 2   | 52  | 5260        | 17.95               | 18.05 | 21.90                 | 22.00 | 23.54                              |       | 29.54                             |       | 23.98                                |       |      |
| HT20    | MCS8      | 2   | 60  | 5300        | 17.90               | 18.20 | 22.10                 | 24.45 | 23.53                              |       | 29.53                             |       | 23.98                                |       |      |
| HT20    | MCS8      | 2   | 64  | 5320        | 17.95               | 18.05 | 22.25                 | 22.05 | 23.54                              |       | 29.54                             |       | 23.98                                |       |      |
| HT40    | MCS8      | 2   | 54  | 5270        | 36.00               | 36.20 | 41.85                 | 42.39 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| HT40    | MCS8      | 2   | 62  | 5310        | 36.10               | 36.30 | 41.40                 | 42.30 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT20   | MCS0      | 2   | 52  | 5260        | 17.90               | 18.05 | 22.05                 | 22.35 | 23.53                              |       | 29.53                             |       | 23.98                                |       |      |
| VHT20   | MCS0      | 2   | 60  | 5300        | 17.90               | 18.50 | 22.10                 | 25.50 | 23.53                              |       | 29.53                             |       | 23.98                                |       |      |
| VHT20   | MCS0      | 2   | 64  | 5320        | 17.85               | 18.10 | 22.00                 | 23.75 | 23.52                              |       | 29.52                             |       | 23.98                                |       |      |
| VHT40   | MCS0      | 2   | 54  | 5270        | 36.20               | 36.20 | 41.76                 | 42.93 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT40   | MCS0      | 2   | 62  | 5310        | 36.20               | 36.10 | 41.58                 | 41.85 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT80   | MCS6      | 2   | 58  | 5290        | 74.76               | 74.88 | 81.12                 | 81.12 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |

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

| FCC Band II |           |     |     |             |                  |       |                               |       |       |                                 |       |          |       |  |           |
|-------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|--|-----------|
| Mod.        | Data Rate | NTx | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       |  | Pass/Fail |
|             |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |  |           |
| 11a         | 6Mbps     | 2   | 52  | 5260        | 0.21             | 0.20  | 12.71                         | 13.52 | 16.14 | 23.98                           |       | 0.50     |       |  | Pass      |
| 11a         | 6Mbps     | 2   | 60  | 5300        | 0.21             | 0.20  | 13.45                         | 13.81 | 16.64 | 23.98                           |       | 0.50     |       |  | Pass      |
| 11a         | 6Mbps     | 2   | 64  | 5320        | 0.21             | 0.20  | 13.43                         | 13.72 | 16.59 | 23.98                           |       | 0.50     |       |  | Pass      |
| HT20        | MCS8      | 2   | 52  | 5260        | 0.42             | 0.42  | 12.60                         | 14.06 | 16.40 | 23.98                           |       | 0.50     |       |  | Pass      |
| HT20        | MCS8      | 2   | 60  | 5300        | 0.42             | 0.42  | 12.94                         | 14.29 | 16.68 | 23.98                           |       | 0.50     |       |  | Pass      |
| HT20        | MCS8      | 2   | 64  | 5320        | 0.42             | 0.42  | 12.93                         | 14.23 | 16.64 | 23.98                           |       | 0.50     |       |  | Pass      |
| HT40        | MCS8      | 2   | 54  | 5270        | 0.81             | 0.77  | 12.32                         | 13.52 | 15.97 | 23.98                           |       | 0.50     |       |  | Pass      |
| HT40        | MCS8      | 2   | 62  | 5310        | 0.81             | 0.77  | 12.35                         | 13.51 | 15.98 | 23.98                           |       | 0.50     |       |  | Pass      |
| VHT20       | MCS0      | 2   | 52  | 5260        | 0.22             | 0.22  | 12.50                         | 13.99 | 16.32 | 23.98                           |       | 0.50     |       |  | Pass      |
| VHT20       | MCS0      | 2   | 60  | 5300        | 0.22             | 0.22  | 12.89                         | 14.23 | 16.62 | 23.98                           |       | 0.50     |       |  | Pass      |
| VHT20       | MCS0      | 2   | 64  | 5320        | 0.22             | 0.22  | 12.85                         | 14.22 | 16.60 | 23.98                           |       | 0.50     |       |  | Pass      |
| VHT40       | MCS0      | 2   | 54  | 5270        | 0.43             | 0.39  | 12.23                         | 13.60 | 15.98 | 23.98                           |       | 0.50     |       |  | Pass      |
| VHT40       | MCS0      | 2   | 62  | 5310        | 0.43             | 0.39  | 12.06                         | 12.94 | 15.53 | 23.98                           |       | 0.50     |       |  | Pass      |
| VHT80       | MCS6      | 2   | 58  | 5290        | 0.81             | 0.81  | 10.95                         | 12.54 | 14.83 | 23.98                           |       | 0.50     |       |  | Pass      |

| IC Band II |           |     |     |             |                  |       |                               |       |       |                                |       |          |       |                           |       |            |
|------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|--------------------------------|-------|----------|-------|---------------------------|-------|------------|
| Mod.       | Data Rate | NTx | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | IC Conducted Power Limit (dBm) |       | DG (dBi) |       | IC EIRP Power Limit (dBm) |       | Pass /Fail |
|            |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                          | Ant 2 | Ant 1    | Ant 2 | Ant 1                     | Ant 2 |            |
| 11a        | 6Mbps     | 2   | 52  | 5260        | 0.21             | 0.20  | 12.71                         | 13.52 | 16.14 | 23.29                          |       | 0.50     |       | 29.29                     |       | Pass       |
| 11a        | 6Mbps     | 2   | 60  | 5300        | 0.21             | 0.20  | 13.45                         | 13.81 | 16.64 | 23.30                          |       | 0.50     |       | 29.30                     |       | Pass       |
| 11a        | 6Mbps     | 2   | 64  | 5320        | 0.21             | 0.20  | 13.43                         | 13.72 | 16.59 | 23.30                          |       | 0.50     |       | 29.30                     |       | Pass       |
| HT20       | MCS8      | 2   | 52  | 5260        | 0.42             | 0.42  | 12.60                         | 14.06 | 16.40 | 23.54                          |       | 0.50     |       | 29.54                     |       | Pass       |
| HT20       | MCS8      | 2   | 60  | 5300        | 0.42             | 0.42  | 12.94                         | 14.29 | 16.68 | 23.53                          |       | 0.50     |       | 29.53                     |       | Pass       |
| HT20       | MCS8      | 2   | 64  | 5320        | 0.42             | 0.42  | 12.93                         | 14.23 | 16.64 | 23.54                          |       | 0.50     |       | 29.54                     |       | Pass       |
| HT40       | MCS8      | 2   | 54  | 5270        | 0.81             | 0.77  | 12.32                         | 13.52 | 15.97 | 23.98                          |       | 0.50     |       | 30.00                     |       | Pass       |
| HT40       | MCS8      | 2   | 62  | 5310        | 0.81             | 0.77  | 12.35                         | 13.51 | 15.98 | 23.98                          |       | 0.50     |       | 30.00                     |       | Pass       |
| VHT20      | MCS0      | 2   | 52  | 5260        | 0.22             | 0.22  | 12.50                         | 13.99 | 16.32 | 23.53                          |       | 0.50     |       | 29.53                     |       | Pass       |
| VHT20      | MCS0      | 2   | 60  | 5300        | 0.22             | 0.22  | 12.89                         | 14.23 | 16.62 | 23.53                          |       | 0.50     |       | 29.53                     |       | Pass       |
| VHT20      | MCS0      | 2   | 64  | 5320        | 0.22             | 0.22  | 12.85                         | 14.22 | 16.60 | 23.52                          |       | 0.50     |       | 29.52                     |       | Pass       |
| VHT40      | MCS0      | 2   | 54  | 5270        | 0.43             | 0.39  | 12.23                         | 13.60 | 15.98 | 23.98                          |       | 0.50     |       | 30.00                     |       | Pass       |
| VHT40      | #####     | 2   | 62  | 5310        | 0.43             | 0.39  | 12.06                         | 12.94 | 15.53 | 23.98                          |       | 0.50     |       | 30.00                     |       | Pass       |
| VHT80      | MCS6      | 2   | 58  | 5290        | 0.81             | 0.81  | 10.95                         | 12.54 | 14.83 | 23.98                          |       | 0.50     |       | 30.00                     |       | Pass       |

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

| Band II |           |     |     |             |                  |       |                                 |       |       |                             |       |          |       |            |
|---------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|         |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |            |
| 11a     | 6Mbps     | 2   | 52  | 5260        | 0.21             | 0.20  |                                 |       | 6.53  | 11.00                       | 0.50  |          |       | Pass       |
| 11a     | 6Mbps     | 2   | 60  | 5300        | 0.21             | 0.20  |                                 |       | 6.50  | 11.00                       | 0.50  |          |       | Pass       |
| 11a     | 6Mbps     | 2   | 64  | 5320        | 0.21             | 0.20  |                                 |       | 6.60  | 11.00                       | 0.50  |          |       | Pass       |
| HT20    | MCS8      | 2   | 52  | 5260        | 0.42             | 0.42  |                                 |       | 4.03  | 11.00                       | 0.50  |          |       | Pass       |
| HT20    | MCS8      | 2   | 60  | 5300        | 0.42             | 0.42  |                                 |       | 4.35  | 11.00                       | 0.50  |          |       | Pass       |
| HT20    | MCS8      | 2   | 64  | 5320        | 0.42             | 0.42  |                                 |       | 4.50  | 11.00                       | 0.50  |          |       | Pass       |
| HT40    | MCS8      | 2   | 54  | 5270        | 0.81             | 0.77  |                                 |       | 0.36  | 11.00                       | 0.50  |          |       | Pass       |
| HT40    | MCS8      | 2   | 62  | 5310        | 0.81             | 0.77  |                                 |       | 0.56  | 11.00                       | 0.50  |          |       | Pass       |
| VHT20   | MCS0      | 2   | 52  | 5260        | 0.22             | 0.22  |                                 |       | 4.12  | 11.00                       | 0.50  |          |       | Pass       |
| VHT20   | MCS0      | 2   | 60  | 5300        | 0.22             | 0.22  |                                 |       | 4.43  | 11.00                       | 0.50  |          |       | Pass       |
| VHT20   | MCS0      | 2   | 64  | 5320        | 0.22             | 0.22  |                                 |       | 4.44  | 11.00                       | 0.50  |          |       | Pass       |
| VHT40   | MCS0      | 2   | 54  | 5270        | 0.43             | 0.39  |                                 |       | 0.59  | 11.00                       | 0.50  |          |       | Pass       |
| VHT40   | MCS0      | 2   | 62  | 5310        | 0.43             | 0.39  |                                 |       | 1.05  | 11.00                       | 0.50  |          |       | Pass       |
| VHT80   | MCS6      | 2   | 58  | 5290        | 0.81             | 0.81  |                                 |       | -3.82 | 11.00                       | 0.50  |          |       | Pass       |

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

| Band III |           |     |     |             |                     |       |                       |       |                                    |       |                                   |       |                                      |       |      |
|----------|-----------|-----|-----|-------------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|------|
| Mod.     | Data Rate | NTx | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       | Note |
|          |           |     |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 |      |
| 11a      | 6Mbps     | 2   | 100 | 5500        | 17.00               | 17.65 | 21.10                 | 29.40 | 23.30                              |       | 29.30                             |       | 23.98                                |       |      |
| 11a      | 6Mbps     | 2   | 116 | 5580        | 16.90               | 18.60 | 21.35                 | 35.35 | 23.28                              |       | 29.28                             |       | 23.98                                |       |      |
| 11a      | 6Mbps     | 2   | 140 | 5700        | 16.80               | 17.15 | 20.90                 | 23.65 | 23.25                              |       | 29.25                             |       | 23.98                                |       |      |
| HT20     | MCS8      | 2   | 100 | 5500        | 17.90               | 18.00 | 21.95                 | 21.75 | 23.53                              |       | 29.53                             |       | 23.98                                |       |      |
| HT20     | MCS8      | 2   | 116 | 5580        | 17.90               | 17.95 | 22.10                 | 21.75 | 23.53                              |       | 29.53                             |       | 23.98                                |       |      |
| HT20     | MCS8      | 2   | 140 | 5700        | 17.90               | 18.00 | 21.85                 | 22.10 | 23.53                              |       | 29.53                             |       | 23.98                                |       |      |
| HT40     | MCS8      | 2   | 102 | 5510        | 36.10               | 36.20 | 42.03                 | 41.58 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| HT40     | MCS8      | 2   | 110 | 5550        | 36.10               | 36.20 | 41.76                 | 41.76 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| HT40     | MCS8      | 2   | 134 | 5670        | 36.10               | 36.20 | 41.40                 | 42.21 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT20    | MCS0      | 2   | 100 | 5500        | 17.85               | 17.95 | 21.80                 | 22.10 | 23.52                              |       | 29.52                             |       | 23.98                                |       |      |
| VHT20    | MCS0      | 2   | 116 | 5580        | 17.85               | 17.90 | 21.90                 | 21.95 | 23.52                              |       | 29.52                             |       | 23.98                                |       |      |
| VHT20    | MCS0      | 2   | 140 | 5700        | 17.90               | 18.10 | 21.65                 | 22.20 | 23.53                              |       | 29.53                             |       | 23.98                                |       |      |
| VHT40    | MCS0      | 2   | 102 | 5510        | 36.10               | 36.10 | 41.85                 | 42.12 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT40    | MCS0      | 2   | 110 | 5550        | 36.10               | 36.20 | 41.94                 | 42.12 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT40    | MCS0      | 2   | 134 | 5670        | 36.10               | 36.30 | 41.67                 | 42.03 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT80    | MCS6      | 2   | 106 | 5530        | 74.52               | 74.52 | 81.60                 | 80.80 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT80    | MCS6      | 2   | 122 | 5610        | 75.12               | 74.88 | 81.44                 | 81.60 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |

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

| FCC Band III |           |     |     |             |                  |       |                               |       |       |                                 |       |          |       |           |
|--------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|-----------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | Pass/Fail |
|              |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |           |
| 11a          | 6Mbps     | 2   | 100 | 5500        | 0.21             | 0.20  | 13.53                         | 13.80 | 16.68 | 23.98                           |       | 0.82     |       | Pass      |
| 11a          | 6Mbps     | 2   | 116 | 5580        | 0.21             | 0.20  | 13.05                         | 13.45 | 16.27 | 23.98                           |       | 0.82     |       | Pass      |
| 11a          | 6Mbps     | 2   | 140 | 5700        | 0.21             | 0.20  | 12.58                         | 14.37 | 16.58 | 23.98                           |       | 0.82     |       | Pass      |
| HT20         | MCS8      | 2   | 100 | 5500        | 0.42             | 0.42  | 12.63                         | 14.17 | 16.48 | 23.98                           |       | 0.82     |       | Pass      |
| HT20         | MCS8      | 2   | 116 | 5580        | 0.42             | 0.42  | 12.32                         | 14.07 | 16.29 | 23.98                           |       | 0.82     |       | Pass      |
| HT20         | MCS8      | 2   | 140 | 5700        | 0.42             | 0.42  | 12.14                         | 14.25 | 16.33 | 23.98                           |       | 0.82     |       | Pass      |
| HT40         | MCS8      | 2   | 102 | 5510        | 0.81             | 0.77  | 9.78                          | 11.08 | 13.49 | 23.98                           |       | 0.82     |       | Pass      |
| HT40         | MCS8      | 2   | 110 | 5550        | 0.81             | 0.77  | 12.23                         | 13.70 | 16.03 | 23.98                           |       | 0.82     |       | Pass      |
| HT40         | MCS8      | 2   | 134 | 5670        | 0.81             | 0.77  | 11.74                         | 13.76 | 15.87 | 23.98                           |       | 0.82     |       | Pass      |
| VHT20        | MCS0      | 2   | 100 | 5500        | 0.22             | 0.22  | 12.59                         | 14.13 | 16.44 | 23.98                           |       | 0.82     |       | Pass      |
| VHT20        | MCS0      | 2   | 116 | 5580        | 0.22             | 0.22  | 12.20                         | 14.10 | 16.26 | 23.98                           |       | 0.82     |       | Pass      |
| VHT20        | MCS0      | 2   | 140 | 5700        | 0.22             | 0.22  | 11.92                         | 14.19 | 16.21 | 23.98                           |       | 0.82     |       | Pass      |
| VHT40        | MCS0      | 2   | 102 | 5510        | 0.43             | 0.39  | 9.66                          | 10.96 | 13.37 | 23.98                           |       | 0.82     |       | Pass      |
| VHT40        | MCS0      | 2   | 110 | 5550        | 0.43             | 0.39  | 12.10                         | 13.70 | 15.98 | 23.98                           |       | 0.82     |       | Pass      |
| VHT40        | MCS0      | 2   | 134 | 5670        | 0.43             | 0.39  | 11.75                         | 14.27 | 16.20 | 23.98                           |       | 0.82     |       | Pass      |
| VHT80        | MCS6      | 2   | 106 | 5530        | 3.15             | 3.15  | 8.83                          | 10.80 | 12.94 | 23.98                           |       | 0.82     |       | Pass      |
| VHT80        | MCS6      | 2   | 122 | 5610        | 3.15             | 3.15  | 10.82                         | 12.89 | 14.99 | 23.98                           |       | 0.82     |       | Pass      |

| IC Band III |           |     |     |             |                  |       |                               |       |       |                                |       |          |       |                           |       |            |
|-------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|--------------------------------|-------|----------|-------|---------------------------|-------|------------|
| Mod.        | Data Rate | NTx | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | IC Conducted Power Limit (dBm) |       | DG (dBi) |       | IC EIRP Power Limit (dBm) |       | Pass /Fail |
|             |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                          | Ant 2 | Ant 1    | Ant 2 | Ant 1                     | Ant 2 |            |
| 11a         | MCS0      | 2   | 100 | 5500        | 0.21             | 0.20  | 13.53                         | 13.80 | 16.68 | 23.30                          |       | 0.82     |       | 29.30                     |       | Pass       |
| 11a         | 6Mbps     | 2   | 116 | 5580        | 0.21             | 0.20  | 13.05                         | 13.45 | 16.27 | 23.28                          |       | 0.82     |       | 29.28                     |       | Pass       |
| 11a         | 6Mbps     | 2   | 140 | 5700        | 0.21             | 0.20  | 12.58                         | 14.37 | 16.58 | 23.25                          |       | 0.82     |       | 29.25                     |       | Pass       |
| HT20        | MCS8      | 2   | 100 | 5500        | 0.42             | 0.42  | 12.63                         | 14.17 | 16.48 | 23.53                          |       | 0.82     |       | 29.53                     |       | Pass       |
| HT20        | MCS8      | 2   | 116 | 5580        | 0.42             | 0.42  | 12.32                         | 14.07 | 16.29 | 23.53                          |       | 0.82     |       | 29.53                     |       | Pass       |
| HT20        | MCS8      | 2   | 140 | 5700        | 0.42             | 0.42  | 12.14                         | 14.25 | 16.33 | 23.53                          |       | 0.82     |       | 29.53                     |       | Pass       |
| HT40        | MCS8      | 2   | 102 | 5510        | 0.81             | 0.77  | 9.78                          | 11.08 | 13.49 | 23.98                          |       | 0.82     |       | 30.00                     |       | Pass       |
| HT40        | MCS8      | 2   | 110 | 5550        | 0.81             | 0.77  | 12.23                         | 13.70 | 16.03 | 23.98                          |       | 0.82     |       | 30.00                     |       | Pass       |
| HT40        | MCS8      | 2   | 134 | 5670        | 0.81             | 0.77  | 11.74                         | 13.76 | 15.87 | 23.98                          |       | 0.82     |       | 30.00                     |       | Pass       |
| VHT20       | MCS0      | 2   | 100 | 5500        | 0.22             | 0.22  | 12.59                         | 14.13 | 16.44 | 23.52                          |       | 0.82     |       | 29.52                     |       | Pass       |
| VHT20       | MCS0      | 2   | 116 | 5580        | 0.22             | 0.22  | 12.20                         | 14.10 | 16.26 | 23.52                          |       | 0.82     |       | 29.52                     |       | Pass       |
| VHT20       | MCS0      | 2   | 140 | 5700        | 0.22             | 0.22  | 11.92                         | 14.19 | 16.21 | 23.53                          |       | 0.82     |       | 29.53                     |       | Pass       |
| VHT40       | MCS0      | 2   | 102 | 5510        | 0.43             | 0.39  | 9.66                          | 10.96 | 13.37 | 23.98                          |       | 0.82     |       | 30.00                     |       | Pass       |
| VHT40       | MCS0      | 2   | 110 | 5550        | 0.43             | 0.39  | 12.10                         | 13.70 | 15.98 | 23.98                          |       | 0.82     |       | 30.00                     |       | Pass       |
| VHT40       | MCS0      | 2   | 134 | 5670        | 0.43             | 0.39  | 11.75                         | 14.27 | 16.20 | 23.98                          |       | 0.82     |       | 30.00                     |       | Pass       |
| VHT80       | MCS6      | 2   | 106 | 5530        | 3.15             | 3.15  | 10.82                         | 12.89 | 14.99 | 23.98                          |       | 0.82     |       | 30.00                     |       | Pass       |

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

| Band III |           |     |     |             |                  |       |                                 |       |       |                             |       |          |       |            |
|----------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------|
| Mod.     | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|          |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |            |
| 11a      | 6Mbps     | 2   | 100 | 5500        | 0.21             | 0.20  |                                 |       | 6.44  | 11.00                       | 0.82  |          |       | Pass       |
| 11a      | 6Mbps     | 2   | 116 | 5580        | 0.21             | 0.20  |                                 |       | 6.63  | 11.00                       | 0.82  |          |       | Pass       |
| 11a      | 6Mbps     | 2   | 140 | 5700        | 0.21             | 0.20  |                                 |       | 7.20  | 11.00                       | 0.82  |          |       | Pass       |
| HT20     | MCS8      | 2   | 100 | 5500        | 0.42             | 0.42  |                                 |       | 4.17  | 11.00                       | 0.82  |          |       | Pass       |
| HT20     | MCS8      | 2   | 116 | 5580        | 0.42             | 0.42  |                                 |       | 3.71  | 11.00                       | 0.82  |          |       | Pass       |
| HT20     | MCS8      | 2   | 140 | 5700        | 0.42             | 0.42  |                                 |       | 3.82  | 11.00                       | 0.82  |          |       | Pass       |
| HT40     | MCS8      | 2   | 102 | 5510        | 0.81             | 0.77  |                                 |       | -0.93 | 11.00                       | 0.82  |          |       | Pass       |
| HT40     | MCS8      | 2   | 110 | 5550        | 0.81             | 0.77  |                                 |       | 0.24  | 11.00                       | 0.82  |          |       | Pass       |
| HT40     | MCS8      | 2   | 134 | 5670        | 0.81             | 0.77  |                                 |       | -0.41 | 11.00                       | 0.82  |          |       | Pass       |
| VHT20    | MCS0      | 2   | 100 | 5500        | 0.22             | 0.22  |                                 |       | 4.14  | 11.00                       | 0.82  |          |       | Pass       |
| VHT20    | MCS0      | 2   | 116 | 5580        | 0.22             | 0.22  |                                 |       | 3.87  | 11.00                       | 0.82  |          |       | Pass       |
| VHT20    | MCS0      | 2   | 140 | 5700        | 0.22             | 0.22  |                                 |       | 4.07  | 11.00                       | 0.82  |          |       | Pass       |
| VHT40    | MCS0      | 2   | 102 | 5510        | 0.43             | 0.39  |                                 |       | -1.46 | 11.00                       | 0.82  |          |       | Pass       |
| VHT40    | MCS0      | 2   | 110 | 5550        | 0.43             | 0.39  |                                 |       | 0.36  | 11.00                       | 0.82  |          |       | Pass       |
| VHT40    | MCS0      | 2   | 134 | 5670        | 0.43             | 0.39  |                                 |       | -0.09 | 11.00                       | 0.82  |          |       | Pass       |
| VHT80    | MCS6      | 2   | 106 | 5530        | 0.81             | 0.81  |                                 |       | -5.16 | 11.00                       | 0.82  |          |       | Pass       |
| VHT80    | MCS6      | 2   | 122 | 5610        | 0.81             | 0.81  |                                 |       | -4.05 | 11.00                       | 0.82  |          |       | Pass       |

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

| Straddle Channel |           |                 |     |             |                     |       |                          |       |                                    |       |                                   |       |                                      |       |      |
|------------------|-----------|-----------------|-----|-------------|---------------------|-------|--------------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|------|
| Mod.             | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | Emission Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       | Note |
|                  |           |                 |     |             | Ant 1               | Ant 2 | Ant 1                    | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 |      |
| 11a              | 6Mbps     | 2               | 144 | 5720        | 16.95               | 18.65 | 21.15                    | 32.45 | -                                  |       | -                                 |       | -                                    |       |      |
|                  |           |                 |     | NII-2C      | 13.55               | 13.85 | 15.7                     | 19.4  | 22.32                              |       | 28.32                             |       | 22.96                                |       |      |
|                  |           |                 |     | NII-3       | 3.4                 | 4.8   | 5.45                     | 13.05 | 22.31                              |       | 28.31                             |       | 18.36                                |       |      |
| HT20             | MCS0      | 2               | 144 | 5720        | 17.90               | 17.90 | 21.80                    | 22.10 | -                                  |       | -                                 |       | -                                    |       |      |
|                  |           |                 |     | NII-2C      | 14.05               | 14.05 | 15.95                    | 16.05 | 22.48                              |       | 28.48                             |       | 23.03                                |       |      |
|                  |           |                 |     | NII-3       | 3.85                | 3.85  | 5.85                     | 6.05  | 22.85                              |       | 28.85                             |       | 18.67                                |       |      |
| HT40             | MCS0      | 2               | 142 | 5710        | 36.10               | 36.10 | 41.22                    | 41.94 | -                                  |       | -                                 |       | -                                    |       |      |
|                  |           |                 |     | NII-2C      | 33.1                | 33.2  | 35.52                    | 36.24 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
|                  |           |                 |     | NII-3       | 3                   | 2.9   | 5.7                      | 5.7   | 21.62                              |       | 27.62                             |       | 18.56                                |       |      |
| VHT20            | MCS0      | 2               | 144 | 5720        | 17.90               | 17.90 | 21.85                    | 21.95 | -                                  |       | -                                 |       | -                                    |       |      |
|                  |           |                 |     | NII-2C      | 14.05               | 14.05 | 16                       | 16.05 | 22.48                              |       | 28.48                             |       | 23.04                                |       |      |
|                  |           |                 |     | NII-3       | 3.85                | 3.85  | 5.85                     | 5.9   | 22.85                              |       | 28.85                             |       | 18.67                                |       |      |
| VHT40            | MCS0      | 2               | 142 | 5710        | 36.10               | 36.10 | 41.31                    | 42.39 | -                                  |       | -                                 |       | -                                    |       |      |
|                  |           |                 |     | NII-2C      | 33.1                | 33.2  | 35.52                    | 36.42 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
|                  |           |                 |     | NII-3       | 3                   | 2.9   | 5.79                     | 5.97  | 21.62                              |       | 27.62                             |       | 18.63                                |       |      |
| VHT80            | MCS0      | 2               | 138 | 5690        | 74.88               | 74.88 | 81.44                    | 81.12 | -                                  |       | -                                 |       | -                                    |       |      |
|                  |           |                 |     | NII-2C      | 72.56               | 72.56 | 75.64                    | 75.48 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
|                  |           |                 |     | NII-3       | 2.32                | 2.32  | 5.8                      | 5.64  | 20.65                              |       | 26.65                             |       | 18.51                                |       |      |

**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 |
|                      |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |  |           |
| 11a                  | 6Mbps     | 2   | 144 | 5720        | 0.21             | 0.20  | 13.64                         | 15.90 | 17.93 | -                               |       | 0.82     |       |  | -         |
|                      |           |     |     | NII-2C      | 0.21             | 0.20  | 12.96                         | 15.17 | 17.21 | 22.96                           |       | 0.82     |       |  | Pass      |
|                      |           |     |     | NII-3       | 0.21             | 0.20  | 5.27                          | 7.82  | 9.74  | 18.36                           |       | 0.82     |       |  | Pass      |
| HT20                 | MCS0      | 2   | 144 | 5720        | 0.42             | 0.42  | 13.36                         | 15.80 | 17.76 | -                               |       | 0.82     |       |  | -         |
|                      |           |     |     | NII-2C      | 0.42             | 0.42  | 12.65                         | 15.05 | 17.02 | 23.03                           |       | 0.82     |       |  | Pass      |
|                      |           |     |     | NII-3       | 0.42             | 0.42  | 5.14                          | 7.79  | 9.67  | 18.67                           |       | 0.82     |       |  | Pass      |
| HT40                 | MCS0      | 2   | 142 | 5710        | 0.81             | 0.77  | 12.62                         | 15.35 | 17.21 | -                               |       | 0.82     |       |  | -         |
|                      |           |     |     | NII-2C      | 0.81             | 0.77  | 12.41                         | 15.13 | 16.99 | 23.98                           |       | 0.82     |       |  | Pass      |
|                      |           |     |     | NII-3       | 0.81             | 0.77  | -0.58                         | 2.25  | 4.07  | 18.56                           |       | 0.82     |       |  | Pass      |
| VHT20                | MCS0      | 2   | 144 | 5720        | 0.22             | 0.22  | 13.26                         | 15.63 | 17.61 | -                               |       | 0.82     |       |  | -         |
|                      |           |     |     | NII-2C      | 0.22             | 0.22  | 12.55                         | 14.90 | 16.89 | 23.04                           |       | 0.82     |       |  | Pass      |
|                      |           |     |     | NII-3       | 0.22             | 0.22  | 5.03                          | 7.51  | 9.45  | 18.67                           |       | 0.82     |       |  | Pass      |
| VHT40                | MCS0      | 2   | 142 | 5710        | 0.43             | 0.39  | 12.55                         | 15.05 | 16.99 | -                               |       | 0.82     |       |  | -         |
|                      |           |     |     | NII-2C      | 0.43             | 0.39  | 12.34                         | 14.84 | 16.78 | 23.98                           |       | 0.82     |       |  | Pass      |
|                      |           |     |     | NII-3       | 0.43             | 0.39  | -0.61                         | 1.86  | 3.81  | 18.63                           |       | 0.82     |       |  | Pass      |
| VHT80                | MCS0      | 2   | 138 | 5690        | 0.81             | 0.81  | 11.56                         | 13.79 | 15.82 | -                               |       | 0.82     |       |  | -         |
|                      |           |     |     | NII-2C      | 0.81             | 0.81  | 11.50                         | 13.72 | 15.76 | 23.98                           |       | 0.82     |       |  | Pass      |
|                      |           |     |     | NII-3       | 0.81             | 0.81  | -7.17                         | -4.47 | -2.60 | 18.51                           |       | 0.82     |       |  | Pass      |

| IC Straddle Channel |           |     |     |             |                  |       |                               |       |       |                                |       |          |       |                           |       |            |
|---------------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|--------------------------------|-------|----------|-------|---------------------------|-------|------------|
| Mod.                | Data Rate | NTx | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | IC Conducted Power Limit (dBm) |       | DG (dBi) |       | IC EIRP Power Limit (dBm) |       | Pass /Fail |
|                     |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                          | Ant 2 | Ant 1    | Ant 2 | Ant 1                     | Ant 2 |            |
| 11a                 | 6Mbps     | 2   | 144 | 5720        | 0.21             | 0.20  | 13.64                         | 15.90 | 17.93 | -                              |       | 0.82     |       | -                         |       | -          |
|                     |           |     |     | NII-2C      | 0.21             | 0.20  | 12.96                         | 15.17 | 17.21 | 22.32                          |       | 0.82     |       | 28.32                     |       | Pass       |
|                     |           |     |     | NII-3       | 0.21             | 0.20  | 5.27                          | 7.82  | 9.74  | 22.31                          |       | 0.82     |       | 28.31                     |       | Pass       |
| HT20                | MCS0      | 2   | 144 | 5720        | 0.42             | 0.42  | 13.36                         | 15.80 | 17.76 | -                              |       | 0.82     |       | -                         |       | -          |
|                     |           |     |     | NII-2C      | 0.42             | 0.42  | 12.65                         | 15.05 | 17.02 | 22.48                          |       | 0.82     |       | 28.48                     |       | Pass       |
|                     |           |     |     | NII-3       | 0.42             | 0.42  | 5.14                          | 7.79  | 9.67  | 22.85                          |       | 0.82     |       | 28.85                     |       | Pass       |
| HT40                | MCS0      | 2   | 142 | 5710        | 0.81             | 0.77  | 12.62                         | 15.35 | 17.21 | -                              |       | 0.82     |       | -                         |       | -          |
|                     |           |     |     | NII-2C      | 0.81             | 0.77  | 12.41                         | 15.13 | 16.99 | 23.98                          |       | 0.82     |       | 30.00                     |       | Pass       |
|                     |           |     |     | NII-3       | 0.81             | 0.77  | -0.58                         | 2.25  | 4.07  | 21.62                          |       | 0.82     |       | 27.62                     |       | Pass       |
| VHT20               | MCS0      | 2   | 144 | 5720        | 0.22             | 0.22  | 13.26                         | 15.63 | 17.61 | -                              |       | 0.82     |       | -                         |       | -          |
|                     |           |     |     | NII-2C      | 0.22             | 0.22  | 12.55                         | 14.90 | 16.89 | 22.48                          |       | 0.82     |       | 28.48                     |       | Pass       |
|                     |           |     |     | NII-3       | 0.22             | 0.22  | 5.03                          | 7.51  | 9.45  | 22.85                          |       | 0.82     |       | 28.85                     |       | Pass       |
| VHT40               | MCS0      | 2   | 142 | 5710        | 0.43             | 0.39  | 12.55                         | 15.05 | 16.99 | -                              |       | 0.82     |       | -                         |       | -          |
|                     |           |     |     | NII-2C      | 0.43             | 0.39  | 12.34                         | 14.84 | 16.78 | 23.98                          |       | 0.82     |       | 30.00                     |       | Pass       |
|                     |           |     |     | NII-3       | 0.43             | 0.39  | -0.61                         | 1.86  | 3.81  | 21.62                          |       | 0.82     |       | 27.62                     |       | Pass       |
| VHT80               | MCS0      | 2   | 138 | 5690        | 0.81             | 0.81  | 11.56                         | 13.79 | 15.82 | -                              |       | 0.82     |       | -                         |       | -          |
|                     |           |     |     | NII-2C      | 0.81             | 0.81  | 11.50                         | 13.72 | 15.76 | 23.98                          |       | 0.82     |       | 30.00                     |       | Pass       |
|                     |           |     |     | NII-3       | 0.81             | 0.81  | -7.17                         | -4.47 | -2.60 | 20.65                          |       | 0.82     |       | 26.65                     |       | Pass       |

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

| Straddle Channel |           |     |     |             |                  |       |                                 |       |       |                             |       |          |       |      |            |
|------------------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|------|------------|
| Mod.             | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       |      | Pass /Fail |
|                  |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |      |            |
| 11a              | 6Mbps     | 2   | 144 | NII-2C      | 0.21             | 0.20  |                                 |       | 6.82  | 11.00                       | 0.82  |          |       | Pass |            |
|                  |           |     |     | NII-3       | 0.21             | 0.20  |                                 |       | 6.82  | 30.00                       | 0.82  |          |       | Pass |            |
| HT20             | MCS0      | 2   | 144 | NII-2C      | 0.42             | 0.42  |                                 |       | 4.23  | 11.00                       | 0.82  |          |       | Pass |            |
|                  |           |     |     | NII-3       | 0.42             | 0.42  |                                 |       | 4.23  | 30.00                       | 0.82  |          |       | Pass |            |
| HT40             | MCS0      | 2   | 142 | NII-2C      | 0.81             | 0.77  |                                 |       | 0.38  | 11.00                       | 0.82  |          |       | Pass |            |
|                  |           |     |     | NII-3       | 0.81             | 0.77  |                                 |       | 0.38  | 30.00                       | 0.82  |          |       | Pass |            |
| VHT20            | MCS0      | 2   | 144 | NII-2C      | 0.22             | 0.22  |                                 |       | 4.36  | 11.00                       | 0.82  |          |       | Pass |            |
|                  |           |     |     | NII-3       | 0.22             | 0.22  |                                 |       | 4.36  | 30.00                       | 0.82  |          |       | Pass |            |
| VHT40            | MCS0      | 2   | 142 | NII-2C      | 0.43             | 0.39  |                                 |       | 0.56  | 11.00                       | 0.82  |          |       | Pass |            |
|                  |           |     |     | NII-3       | 0.43             | 0.39  |                                 |       | 0.56  | 30.00                       | 0.82  |          |       | Pass |            |
| VHT80            | MCS0      | 2   | 138 | NII-2C      | 0.81             | 0.81  |                                 |       | -4.27 | 11.00                       | 0.82  |          |       | Pass |            |
|                  |           |     |     | NII-3       | 0.81             | 0.81  |                                 |       | -4.27 | 30.00                       | 0.82  |          |       | 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               | 3.4         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 20               | 4.35        |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 20               | 3.9         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | -30              | 3.9         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 55               | 3.9         |      |

| 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        | 5319.950               | -0.050                    | -9.40                     | 20               | 3.4         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5319.950               | -0.050                    | -9.40                     | 20               | 4.35        |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5319.950               | -0.050                    | -9.40                     | 20               | 3.9         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5319.950               | -0.050                    | -9.40                     | -30              | 3.9         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5319.950               | -0.050                    | -9.40                     | 55               | 3.9         |      |

| 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               | 3.4         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.000               | 0.000                     | 0.00                      | 20               | 4.35        |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5499.950               | -0.050                    | -9.09                     | 20               | 3.9         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.000               | 0.000                     | 0.00                      | -30              | 3.9         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.000               | 0.000                     | 0.00                      | 55               | 3.9         |      |



## Appendix B. Radiated Spurious Emission

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

### 15E Band 1 - 5150~5250MHz

#### WIFI 802.11a (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                         |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 36<br>5180MHz |      | 5146.55   | 67.54      | -6.46  | 74         | 53.87    | 34.61    | 11.55  | 32.49  | 100    | 64      | P       | H       |
|                             |      | 5150      | 47.34      | -6.66  | 54         | 33.67    | 34.61    | 11.55  | 32.49  | 100    | 64      | A       | H       |
|                             | *    | 5180      | 105.8      | -      | -          | 92.11    | 34.66    | 11.55  | 32.52  | 100    | 64      | P       | H       |
|                             | *    | 5180      | 96.65      | -      | -          | 82.96    | 34.66    | 11.55  | 32.52  | 100    | 64      | A       | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      | 5148.35   | 72.46      | -1.54  | 74         | 58.79    | 34.61    | 11.55  | 32.49  | 271    | 92      | P       | V       |
|                             |      | 5149.85   | 51.17      | -2.83  | 54         | 37.5     | 34.61    | 11.55  | 32.49  | 271    | 92      | A       | V       |
|                             | *    | 5178      | 111.27     | -      | -          | 97.58    | 34.66    | 11.55  | 32.52  | 271    | 92      | P       | V       |
|                             | *    | 5178      | 101.99     | -      | -          | 88.3     | 34.66    | 11.55  | 32.52  | 271    | 92      | A       | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 44<br>5220MHz |      | 5075.3    | 56.76      | -17.24 | 74         | 43.17    | 34.52    | 11.46  | 32.39  | 100    | 64      | P       | H       |
|                             |      | 5140.4    | 43.55      | -10.45 | 54         | 29.84    | 34.61    | 11.55  | 32.45  | 100    | 64      | A       | H       |
|                             | *    | 5220      | 105.34     | -      | -          | 91.6     | 34.7     | 11.59  | 32.55  | 100    | 64      | P       | H       |
|                             | *    | 5220      | 95.79      | -      | -          | 82.05    | 34.7     | 11.59  | 32.55  | 100    | 64      | A       | H       |
|                             |      | 5394.66   | 57.38      | -16.62 | 74         | 43.96    | 34.96    | 11.74  | 33.28  | 100    | 64      | P       | H       |
|                             |      | 5382.89   | 43.91      | -10.09 | 54         | 30.51    | 34.94    | 11.74  | 33.28  | 100    | 64      | A       | H       |
|                             |      | 5119.1    | 57.97      | -16.03 | 74         | 44.36    | 34.56    | 11.5   | 32.45  | 295    | 96      | P       | V       |
|                             |      | 5145.65   | 43.78      | -10.22 | 54         | 30.11    | 34.61    | 11.55  | 32.49  | 295    | 96      | A       | V       |
|                             | *    | 5222      | 111.25     | -      | -          | 97.58    | 34.7     | 11.62  | 32.65  | 295    | 96      | P       | V       |
|                             | *    | 5222      | 101.47     | -      | -          | 87.8     | 34.7     | 11.62  | 32.65  | 295    | 96      | A       | V       |
|                             |      | 5415.89   | 57.29      | -16.71 | 74         | 43.96    | 34.98    | 11.74  | 33.39  | 295    | 96      | P       | V       |
|                             |      | 5395.43   | 43.88      | -10.12 | 54         | 30.46    | 34.96    | 11.74  | 33.28  | 295    | 96      | A       | V       |



|                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |    |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|----|---|---|
| <b>802.11a</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5099.15 | 57.17  | -16.83 | 74 | 43.59 | 34.54 | 11.46 | 32.42 | 100 | 65 | P | H |
|                                                  |                                                                                             | 5142.35 | 43.64  | -10.36 | 54 | 29.93 | 34.61 | 11.55 | 32.45 | 100 | 65 | A | H |
|                                                  | *                                                                                           | 5240    | 105.21 | -      | -  | 91.51 | 34.73 | 11.62 | 32.65 | 100 | 65 | P | H |
|                                                  | *                                                                                           | 5240    | 95.59  | -      | -  | 81.89 | 34.73 | 11.62 | 32.65 | 100 | 65 | A | H |
|                                                  |                                                                                             | 5400.38 | 57.25  | -16.75 | 74 | 43.94 | 34.96 | 11.74 | 33.39 | 100 | 65 | P | H |
|                                                  |                                                                                             | 5386.19 | 43.99  | -10.01 | 54 | 30.59 | 34.94 | 11.74 | 33.28 | 100 | 65 | A | H |
|                                                  |                                                                                             | 5061.95 | 57.62  | -16.38 | 74 | 44.02 | 34.49 | 11.46 | 32.35 | 295 | 96 | P | V |
|                                                  |                                                                                             | 5144.45 | 43.62  | -10.38 | 54 | 29.95 | 34.61 | 11.55 | 32.49 | 295 | 96 | A | V |
|                                                  | *                                                                                           | 5240    | 111.54 | -      | -  | 97.84 | 34.73 | 11.62 | 32.65 | 295 | 96 | P | V |
|                                                  | *                                                                                           | 5240    | 101.93 | -      | -  | 88.23 | 34.73 | 11.62 | 32.65 | 295 | 96 | A | V |
|                                                  |                                                                                             | 5419.96 | 57.19  | -16.81 | 74 | 43.86 | 34.98 | 11.74 | 33.39 | 295 | 96 | P | V |
|                                                  |                                                                                             | 5379.81 | 43.87  | -10.13 | 54 | 30.5  | 34.94 | 11.71 | 33.28 | 295 | 96 | 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 802.11a (Harmonic @ 3m) (with PMA wireless charger)

| 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+2                         |                                                                                             | ( 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     | 43.43      | -30.57 | 74         | 49.78    | 37.22    | 16.34  | 59.91  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15540     | 47.15      | -26.85 | 74         | 44.33    | 40.34    | 20.36  | 57.88  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10360     | 42.85      | -31.15 | 74         | 49.2     | 37.22    | 16.34  | 59.91  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15540     | 47.76      | -26.24 | 74         | 44.94    | 40.34    | 20.36  | 57.88  | 100    | 0       | P       | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 44<br>5220MHz |                                                                                             | 10440     | 41.58      | -32.42 | 74         | 47.76    | 37.26    | 16.41  | 59.85  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15660     | 46.43      | -27.57 | 74         | 43.34    | 40.49    | 20.41  | 57.81  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10440     | 41.33      | -32.67 | 74         | 47.51    | 37.26    | 16.41  | 59.85  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15660     | 48.19      | -25.81 | 74         | 45.1     | 40.49    | 20.41  | 57.81  | 100    | 0       | P       | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 48<br>5240MHz |                                                                                             | 10480     | 42.41      | -31.59 | 74         | 48.48    | 37.29    | 16.45  | 59.81  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15720     | 48.08      | -25.92 | 74         | 44.83    | 40.57    | 20.45  | 57.77  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10480     | 41.57      | -32.43 | 74         | 47.64    | 37.29    | 16.45  | 59.81  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15720     | 48.43      | -25.57 | 74         | 45.18    | 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) (with PMA wireless charger)

| 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+2                                 |      | ( 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 |      | 5148.95   | 67.44      | -6.56  | 74         | 53.77    | 34.61    | 11.55  | 32.49  | 105    | 68      | P       | H       |
|                                     |      | 5149.85   | 45.58      | -8.42  | 54         | 31.91    | 34.61    | 11.55  | 32.49  | 105    | 68      | A       | H       |
|                                     | *    | 5180      | 105.09     | -      | -          | 91.4     | 34.66    | 11.55  | 32.52  | 105    | 68      | P       | H       |
|                                     | *    | 5180      | 94.97      | -      | -          | 81.28    | 34.66    | 11.55  | 32.52  | 105    | 68      | A       | H       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |      | 5149.1    | 71.15      | -2.85  | 74         | 57.48    | 34.61    | 11.55  | 32.49  | 296    | 79      | P       | V       |
|                                     |      | 5150      | 47.71      | -6.29  | 54         | 34.04    | 34.61    | 11.55  | 32.49  | 296    | 79      | A       | V       |
|                                     | *    | 5180      | 110.44     | -      | -          | 96.75    | 34.66    | 11.55  | 32.52  | 296    | 79      | P       | V       |
|                                     | *    | 5180      | 100.17     | -      | -          | 86.48    | 34.66    | 11.55  | 32.52  | 296    | 79      | A       | V       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5140.4    | 57.1       | -16.9  | 74         | 43.39    | 34.61    | 11.55  | 32.45  | 101    | 112     | P       | H       |
|                                     |      | 5142.2    | 44.01      | -9.99  | 54         | 30.3     | 34.61    | 11.55  | 32.45  | 101    | 112     | A       | H       |
|                                     | *    | 5220      | 105.21     | -      | -          | 91.47    | 34.7     | 11.59  | 32.55  | 101    | 112     | P       | H       |
|                                     | *    | 5220      | 94.64      | -      | -          | 80.9     | 34.7     | 11.59  | 32.55  | 101    | 112     | A       | H       |
|                                     |      | 5407.53   | 57.73      | -16.27 | 74         | 44.42    | 34.96    | 11.74  | 33.39  | 101    | 112     | P       | H       |
|                                     |      | 5402.8    | 44.35      | -9.65  | 54         | 31.04    | 34.96    | 11.74  | 33.39  | 101    | 112     | A       | H       |
|                                     |      | 5032.55   | 57.39      | -16.61 | 74         | 43.85    | 34.45    | 11.41  | 32.32  | 294    | 85      | P       | V       |
|                                     |      | 5149.85   | 44.22      | -9.78  | 54         | 30.55    | 34.61    | 11.55  | 32.49  | 294    | 85      | A       | V       |
|                                     | *    | 5220      | 110.5      | -      | -          | 96.76    | 34.7     | 11.59  | 32.55  | 294    | 85      | P       | V       |
|                                     | *    | 5220      | 99.99      | -      | -          | 86.25    | 34.7     | 11.59  | 32.55  | 294    | 85      | A       | V       |
|                                     |      | 5442.95   | 57         | -17    | 74         | 43.67    | 35.01    | 11.8   | 33.48  | 294    | 85      | P       | V       |
|                                     |      | 5385.09   | 44.34      | -9.66  | 54         | 30.94    | 34.94    | 11.74  | 33.28  | 294    | 85      | A       | V       |



|                                                                 |                                                                                             |         |        |        |    |       |       |       |       |     |    |   |   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5111    | 56.92  | -17.08 | 74 | 43.28 | 34.56 | 11.5  | 32.42 | 101 | 67 | P | H |
|                                                                 |                                                                                             | 5145.05 | 43.92  | -10.08 | 54 | 30.25 | 34.61 | 11.55 | 32.49 | 101 | 67 | A | H |
|                                                                 | *                                                                                           | 5240    | 104.8  | -      | -  | 91.1  | 34.73 | 11.62 | 32.65 | 101 | 67 | P | H |
|                                                                 | *                                                                                           | 5240    | 94.48  | -      | -  | 80.78 | 34.73 | 11.62 | 32.65 | 101 | 67 | A | H |
|                                                                 |                                                                                             | 5353.52 | 57.69  | -16.31 | 74 | 44.27 | 34.89 | 11.71 | 33.18 | 101 | 67 | P | H |
|                                                                 |                                                                                             | 5380.69 | 44.45  | -9.55  | 54 | 31.05 | 34.94 | 11.74 | 33.28 | 101 | 67 | A | H |
|                                                                 |                                                                                             | 5008.4  | 57.22  | -16.78 | 74 | 43.72 | 34.42 | 11.37 | 32.29 | 303 | 80 | P | V |
|                                                                 |                                                                                             | 5144.15 | 44.06  | -9.94  | 54 | 30.39 | 34.61 | 11.55 | 32.49 | 303 | 80 | A | V |
|                                                                 | *                                                                                           | 5240    | 110.56 | -      | -  | 96.86 | 34.73 | 11.62 | 32.65 | 303 | 80 | P | V |
|                                                                 | *                                                                                           | 5240    | 100.15 | -      | -  | 86.45 | 34.73 | 11.62 | 32.65 | 303 | 80 | A | V |
|                                                                 |                                                                                             | 5373.43 | 58.13  | -15.87 | 74 | 44.79 | 34.91 | 11.71 | 33.28 | 303 | 80 | P | V |
|                                                                 |                                                                                             | 5383.77 | 44.37  | -9.63  | 54 | 30.97 | 34.94 | 11.74 | 33.28 | 303 | 80 | 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) (with PMA wireless charger)

| 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+2                                 |                                                                                             | ( 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     | 43.2       | -30.8  | 74         | 49.55    | 37.22    | 16.34  | 59.91  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 15540     | 46.94      | -27.06 | 74         | 44.12    | 40.34    | 20.36  | 57.88  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 10360     | 44.14      | -29.86 | 74         | 50.49    | 37.22    | 16.34  | 59.91  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 15540     | 47.21      | -26.79 | 74         | 44.39    | 40.34    | 20.36  | 57.88  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |                                                                                             | 10440     | 42.63      | -31.37 | 74         | 48.81    | 37.26    | 16.41  | 59.85  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 15660     | 46.15      | -27.85 | 74         | 43.06    | 40.49    | 20.41  | 57.81  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 10440     | 42.3       | -31.7  | 74         | 48.48    | 37.26    | 16.41  | 59.85  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 15660     | 45.97      | -28.03 | 74         | 42.88    | 40.49    | 20.41  | 57.81  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |                                                                                             | 10480     | 40.95      | -33.05 | 74         | 47.02    | 37.29    | 16.45  | 59.81  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 15720     | 47.85      | -26.15 | 74         | 44.6     | 40.57    | 20.45  | 57.77  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 10480     | 41.84      | -32.16 | 74         | 47.91    | 37.29    | 16.45  | 59.81  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 15720     | 47.53      | -26.47 | 74         | 44.28    | 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) (with PMA wireless charger)

| 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+2                                 |                                                                                             | ( 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    | 65.87      | -8.13  | 74         | 52.2     | 34.61    | 11.55  | 32.49  | 297    | 194     | P       | H       |
|                                     |                                                                                             | 5149.85   | 49.12      | -4.88  | 54         | 35.45    | 34.61    | 11.55  | 32.49  | 297    | 194     | A       | H       |
|                                     | *                                                                                           | 5190      | 98.14      | -      | -          | 84.41    | 34.66    | 11.59  | 32.52  | 297    | 194     | P       | H       |
|                                     | *                                                                                           | 5190      | 88.55      | -      | -          | 74.82    | 34.66    | 11.59  | 32.52  | 297    | 194     | A       | H       |
|                                     |                                                                                             | 5389.93   | 58.79      | -15.21 | 74         | 45.39    | 34.94    | 11.74  | 33.28  | 297    | 194     | P       | H       |
|                                     |                                                                                             | 5377.39   | 45         | -9     | 54         | 31.66    | 34.91    | 11.71  | 33.28  | 297    | 194     | A       | H       |
|                                     |                                                                                             | 5150      | 71.1       | -2.9   | 74         | 57.43    | 34.61    | 11.55  | 32.49  | 266    | 284     | P       | V       |
|                                     |                                                                                             | 5149.85   | 53.4       | -0.6   | 54         | 39.73    | 34.61    | 11.55  | 32.49  | 266    | 284     | A       | V       |
|                                     | *                                                                                           | 5190      | 104.93     | -      | -          | 91.2     | 34.66    | 11.59  | 32.52  | 266    | 284     | P       | V       |
|                                     | *                                                                                           | 5190      | 95.22      | -      | -          | 81.49    | 34.66    | 11.59  | 32.52  | 266    | 284     | A       | V       |
|                                     |                                                                                             | 5400.49   | 59.2       | -14.8  | 74         | 45.89    | 34.96    | 11.74  | 33.39  | 266    | 284     | P       | V       |
|                                     |                                                                                             | 5400.27   | 45.1       | -8.9   | 54         | 31.79    | 34.96    | 11.74  | 33.39  | 266    | 284     | A       | V       |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |                                                                                             | 5145.2    | 58.36      | -15.64 | 74         | 44.69    | 34.61    | 11.55  | 32.49  | 241    | 85      | P       | H       |
|                                     |                                                                                             | 5143.55   | 44.35      | -9.65  | 54         | 30.64    | 34.61    | 11.55  | 32.45  | 241    | 85      | A       | H       |
|                                     | *                                                                                           | 5230      | 102.11     | -      | -          | 88.41    | 34.73    | 11.62  | 32.65  | 241    | 85      | P       | H       |
|                                     | *                                                                                           | 5230      | 91.57      | -      | -          | 77.87    | 34.73    | 11.62  | 32.65  | 241    | 85      | A       | H       |
|                                     |                                                                                             | 5352.2    | 58.48      | -15.52 | 74         | 45.06    | 34.89    | 11.71  | 33.18  | 241    | 85      | P       | H       |
|                                     |                                                                                             | 5384.32   | 44.92      | -9.08  | 54         | 31.52    | 34.94    | 11.74  | 33.28  | 241    | 85      | A       | H       |
|                                     |                                                                                             | 5142.35   | 62.69      | -11.31 | 74         | 48.98    | 34.61    | 11.55  | 32.45  | 290    | 88      | P       | V       |
|                                     |                                                                                             | 5140.25   | 44.66      | -9.34  | 54         | 30.95    | 34.61    | 11.55  | 32.45  | 290    | 88      | A       | V       |
|                                     | *                                                                                           | 5230      | 106.75     | -      | -          | 93.05    | 34.73    | 11.62  | 32.65  | 290    | 88      | P       | V       |
|                                     | *                                                                                           | 5230      | 96.63      | -      | -          | 82.93    | 34.73    | 11.62  | 32.65  | 290    | 88      | A       | V       |
|                                     |                                                                                             | 5393.67   | 61.11      | -12.89 | 74         | 47.71    | 34.94    | 11.74  | 33.28  | 290    | 88      | P       | V       |
|                                     |                                                                                             | 5394.11   | 44.7       | -9.3   | 54         | 31.3     | 34.94    | 11.74  | 33.28  | 290    | 88      | 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) (with PMA wireless charger)

| 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+2                                 |                                                                                             | ( 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     | 41.76      | -32.24 | 74         | 48.08  | 37.23    | 16.34  | 59.89  | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15570     | 46.9       | -27.1  | 74         | 44     | 40.38    | 20.38  | 57.86  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10380     | 42.19      | -31.81 | 74         | 48.51  | 37.23    | 16.34  | 59.89  | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15570     | 46.68      | -27.32 | 74         | 43.78  | 40.38    | 20.38  | 57.86  | 100    | 0       | P     | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |                                                                                             | 10460     | 41.77      | -32.23 | 74         | 47.93  | 37.27    | 16.41  | 59.84  | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15690     | 47.02      | -26.98 | 74         | 43.85  | 40.53    | 20.43  | 57.79  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10460     | 41.07      | -32.93 | 74         | 47.23  | 37.27    | 16.41  | 59.84  | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15690     | 46.48      | -27.52 | 74         | 43.31  | 40.53    | 20.43  | 57.79  | 100    | 0       | P     | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## 15E band 1 5150~5250MHz

## WIFI 802.11ac VHT20 (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                                   |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT20<br>CH 36<br>5180MHz |      | 5148.35   | 63.25      | -10.75 | 74         | 49.58    | 34.61    | 11.55  | 32.49  | 300    | 196     | P       | H       |
|                                       |      | 5149.85   | 44.97      | -9.03  | 54         | 31.3     | 34.61    | 11.55  | 32.49  | 300    | 196     | A       | H       |
|                                       | *    | 5178      | 103.39     | -      | -          | 89.7     | 34.66    | 11.55  | 32.52  | 300    | 196     | P       | H       |
|                                       | *    | 5178      | 93.82      | -      | -          | 80.13    | 34.66    | 11.55  | 32.52  | 300    | 196     | A       | H       |
|                                       |      | 5414.9    | 57.62      | -16.38 | 74         | 44.29    | 34.98    | 11.74  | 33.39  | 300    | 196     | P       | H       |
|                                       |      | 5417.87   | 44.17      | -9.83  | 54         | 30.84    | 34.98    | 11.74  | 33.39  | 300    | 196     | A       | H       |
|                                       |      | 5148.5    | 70.72      | -3.28  | 74         | 57.05    | 34.61    | 11.55  | 32.49  | 264    | 282     | P       | V       |
|                                       |      | 5149.85   | 47.44      | -6.56  | 54         | 33.77    | 34.61    | 11.55  | 32.49  | 264    | 282     | A       | V       |
|                                       | *    | 5182      | 109.35     | -      | -          | 95.62    | 34.66    | 11.59  | 32.52  | 264    | 282     | P       | V       |
|                                       | *    | 5182      | 99.6       | -      | -          | 85.87    | 34.66    | 11.59  | 32.52  | 264    | 282     | A       | V       |
|                                       |      | 5368.15   | 57.75      | -16.25 | 74         | 44.31    | 34.91    | 11.71  | 33.18  | 264    | 282     | P       | V       |
|                                       |      | 5379.37   | 44.25      | -9.75  | 54         | 30.88    | 34.94    | 11.71  | 33.28  | 264    | 282     | A       | V       |
| 802.11ac<br>VHT20<br>CH 44<br>5220MHz |      | 5106.05   | 57.46      | -16.54 | 74         | 43.82    | 34.56    | 11.5   | 32.42  | 300    | 220     | P       | H       |
|                                       |      | 5147.6    | 43.94      | -10.06 | 54         | 30.27    | 34.61    | 11.55  | 32.49  | 300    | 220     | A       | H       |
|                                       | *    | 5222      | 104.14     | -      | -          | 90.47    | 34.7     | 11.62  | 32.65  | 300    | 220     | P       | H       |
|                                       | *    | 5222      | 93.88      | -      | -          | 80.21    | 34.7     | 11.62  | 32.65  | 300    | 220     | A       | H       |
|                                       |      | 5410.39   | 57.84      | -16.16 | 74         | 44.53    | 34.96    | 11.74  | 33.39  | 300    | 220     | P       | H       |
|                                       |      | 5398.95   | 44.22      | -9.78  | 54         | 30.91    | 34.96    | 11.74  | 33.39  | 300    | 220     | A       | H       |
|                                       |      | 5069.75   | 57.38      | -16.62 | 74         | 43.82    | 34.49    | 11.46  | 32.39  | 275    | 284     | P       | V       |
|                                       |      | 5137.85   | 43.89      | -10.11 | 54         | 30.25    | 34.59    | 11.5   | 32.45  | 275    | 284     | A       | V       |
|                                       | *    | 5222      | 109.16     | -      | -          | 95.49    | 34.7     | 11.62  | 32.65  | 275    | 284     | P       | V       |
|                                       | *    | 5222      | 98.96      | -      | -          | 85.29    | 34.7     | 11.62  | 32.65  | 275    | 284     | A       | V       |
|                                       |      | 5404.78   | 58.14      | -15.86 | 74         | 44.83    | 34.96    | 11.74  | 33.39  | 275    | 284     | P       | V       |
|                                       |      | 5381.79   | 44.28      | -9.72  | 54         | 30.88    | 34.94    | 11.74  | 33.28  | 275    | 284     | A       | V       |



|                                                                               |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><br><b>VHT20</b><br><br><b>CH 48</b><br><br><b>5240MHz</b> |                                                                                             | 5079.65 | 57.14  | -16.86 | 74 | 43.55 | 34.52 | 11.46 | 32.39 | 300 | 194 | P | H |
|                                                                               |                                                                                             | 5143.1  | 43.84  | -10.16 | 54 | 30.13 | 34.61 | 11.55 | 32.45 | 300 | 194 | A | H |
|                                                                               | *                                                                                           | 5239    | 104.34 | -      | -  | 90.64 | 34.73 | 11.62 | 32.65 | 300 | 194 | P | H |
|                                                                               | *                                                                                           | 5239    | 94.47  | -      | -  | 80.77 | 34.73 | 11.62 | 32.65 | 300 | 194 | A | H |
|                                                                               |                                                                                             | 5376.84 | 57.69  | -16.31 | 74 | 44.35 | 34.91 | 11.71 | 33.28 | 300 | 194 | P | H |
|                                                                               |                                                                                             | 5369.8  | 44.27  | -9.73  | 54 | 30.83 | 34.91 | 11.71 | 33.18 | 300 | 194 | A | H |
|                                                                               |                                                                                             | 5133.5  | 57.64  | -16.36 | 74 | 44    | 34.59 | 11.5  | 32.45 | 275 | 284 | P | V |
|                                                                               |                                                                                             | 5135    | 43.96  | -10.04 | 54 | 30.32 | 34.59 | 11.5  | 32.45 | 275 | 284 | A | V |
|                                                                               | *                                                                                           | 5240    | 109.07 | -      | -  | 95.37 | 34.73 | 11.62 | 32.65 | 275 | 284 | P | V |
|                                                                               | *                                                                                           | 5240    | 99.23  | -      | -  | 85.53 | 34.73 | 11.62 | 32.65 | 275 | 284 | A | V |
|                                                                               |                                                                                             | 5378.93 | 57.13  | -16.87 | 74 | 43.76 | 34.94 | 11.71 | 33.28 | 275 | 284 | P | V |
|                                                                               |                                                                                             | 5387.51 | 44.3   | -9.7   | 54 | 30.9  | 34.94 | 11.74 | 33.28 | 275 | 284 | 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 802.11ac VHT20 (Harmonic @ 3m) (with PMA wireless charger)

| 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+2                                   |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT20<br>CH 36<br>5180MHz |                                                                                             | 10360     | 42.7       | -31.3  | 74         | 49.05    | 37.22    | 16.34  | 59.91  | 100    | 0       | P       | H       |
|                                       |                                                                                             | 15540     | 45.94      | -28.06 | 74         | 43.12    | 40.34    | 20.36  | 57.88  | 100    | 0       | P       | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             | 10360     | 43.97      | -30.03 | 74         | 50.32    | 37.22    | 16.34  | 59.91  | 100    | 0       | P       | V       |
|                                       |                                                                                             | 15540     | 46.81      | -27.19 | 74         | 43.99    | 40.34    | 20.36  | 57.88  | 100    | 0       | P       | V       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11ac<br>VHT20<br>CH 44<br>5220MHz |                                                                                             | 10440     | 42.77      | -31.23 | 74         | 48.95    | 37.26    | 16.41  | 59.85  | 100    | 0       | P       | H       |
|                                       |                                                                                             | 15660     | 47.31      | -26.69 | 74         | 44.22    | 40.49    | 20.41  | 57.81  | 100    | 0       | P       | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             | 10440     | 43.88      | -30.12 | 74         | 50.06    | 37.26    | 16.41  | 59.85  | 100    | 0       | P       | V       |
|                                       |                                                                                             | 15660     | 46.32      | -27.68 | 74         | 43.23    | 40.49    | 20.41  | 57.81  | 100    | 0       | P       | V       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11ac<br>VHT20<br>CH 48<br>5240MHz |                                                                                             | 10480     | 41.68      | -32.32 | 74         | 47.75    | 37.29    | 16.45  | 59.81  | 100    | 0       | P       | H       |
|                                       |                                                                                             | 15720     | 47.6       | -26.4  | 74         | 44.35    | 40.57    | 20.45  | 57.77  | 100    | 0       | P       | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             | 10480     | 43.89      | -30.11 | 74         | 49.96    | 37.29    | 16.45  | 59.81  | 100    | 0       | P       | V       |
|                                       |                                                                                             | 15720     | 47.31      | -26.69 | 74         | 44.06    | 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 802.11ac VHT40 (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                                                                                         |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT40<br>CH 38<br>5190MHz                                                       |      | 5150      | 64.74      | -9.26  | 74         | 51.07    | 34.61    | 11.55  | 32.49  | 218    | 84      | P       | H       |
|                                                                                             |      | 5149.7    | 49.22      | -4.78  | 54         | 35.55    | 34.61    | 11.55  | 32.49  | 218    | 84      | A       | H       |
|                                                                                             | *    | 5190      | 100.88     | -      | -          | 87.15    | 34.66    | 11.59  | 32.52  | 218    | 84      | P       | H       |
|                                                                                             | *    | 5190      | 92.58      | -      | -          | 78.85    | 34.66    | 11.59  | 32.52  | 218    | 84      | A       | H       |
|                                                                                             |      | 5384.65   | 57.94      | -16.06 | 74         | 44.54    | 34.94    | 11.74  | 33.28  | 218    | 84      | P       | H       |
|                                                                                             |      | 5365.84   | 44.64      | -9.36  | 54         | 31.2     | 34.91    | 11.71  | 33.18  | 218    | 84      | A       | H       |
|                                                                                             |      | 5149.1    | 71.28      | -2.72  | 74         | 57.61    | 34.61    | 11.55  | 32.49  | 279    | 77      | P       | V       |
|                                                                                             |      | 5150      | 53.29      | -0.71  | 54         | 39.62    | 34.61    | 11.55  | 32.49  | 279    | 77      | A       | V       |
|                                                                                             | *    | 5190      | 106.15     | -      | -          | 92.42    | 34.66    | 11.59  | 32.52  | 279    | 77      | P       | V       |
|                                                                                             | *    | 5190      | 95.9       | -      | -          | 82.17    | 34.66    | 11.59  | 32.52  | 279    | 77      | A       | V       |
|                                                                                             |      | 5358.36   | 58.15      | -15.85 | 74         | 44.73    | 34.89    | 11.71  | 33.18  | 279    | 77      | P       | V       |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz                                                       |      | 5392.79   | 44.7       | -9.3   | 54         | 31.3     | 34.94    | 11.74  | 33.28  | 279    | 77      | A       | V       |
|                                                                                             |      | 5146.55   | 57.84      | -16.16 | 74         | 44.17    | 34.61    | 11.55  | 32.49  | 242    | 83      | P       | H       |
|                                                                                             |      | 5149.1    | 44.36      | -9.64  | 54         | 30.69    | 34.61    | 11.55  | 32.49  | 242    | 83      | A       | H       |
|                                                                                             | *    | 5230      | 102.5      | -      | -          | 88.8     | 34.73    | 11.62  | 32.65  | 242    | 83      | P       | H       |
|                                                                                             | *    | 5230      | 92.04      | -      | -          | 78.34    | 34.73    | 11.62  | 32.65  | 242    | 83      | A       | H       |
|                                                                                             |      | 5385.2    | 58.36      | -15.64 | 74         | 44.96    | 34.94    | 11.74  | 33.28  | 242    | 83      | P       | H       |
|                                                                                             |      | 5379.48   | 44.72      | -9.28  | 54         | 31.35    | 34.94    | 11.71  | 33.28  | 242    | 83      | A       | H       |
|                                                                                             |      | 5142.2    | 63.72      | -10.28 | 74         | 50.01    | 34.61    | 11.55  | 32.45  | 275    | 90      | P       | V       |
|                                                                                             |      | 5148.5    | 44.77      | -9.23  | 54         | 31.1     | 34.61    | 11.55  | 32.49  | 275    | 90      | A       | V       |
|                                                                                             | *    | 5230      | 107.02     | -      | -          | 93.32    | 34.73    | 11.62  | 32.65  | 275    | 90      | P       | V       |
|                                                                                             | *    | 5230      | 96.86      | -      | -          | 83.16    | 34.73    | 11.62  | 32.65  | 275    | 90      | A       | V       |
| Remark                                                                                      |      | 5379.7    | 62.34      | -11.66 | 74         | 48.97    | 34.94    | 11.71  | 33.28  | 275    | 90      | P       | V       |
|                                                                                             |      | 5393.23   | 44.88      | -9.12  | 54         | 31.48    | 34.94    | 11.74  | 33.28  | 275    | 90      | A       | V       |
| 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 VHT40 (Harmonic @ 3m) (with PMA wireless charger)

| 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+2                                   |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac<br>VHT40<br>CH 38<br>5190MHz |                                                                                             | 10380     | 42.86      | -31.14 | 74         | 49.18  | 37.23    | 16.34  | 59.89  | 100    | 0       | P     | H     |
|                                       |                                                                                             | 15570     | 46.41      | -27.59 | 74         | 43.51  | 40.38    | 20.38  | 57.86  | 100    | 0       | P     | H     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                                             | 10380     | 42.45      | -31.55 | 74         | 48.77  | 37.23    | 16.34  | 59.89  | 100    | 0       | P     | V     |
|                                       |                                                                                             | 15570     | 47.52      | -26.48 | 74         | 44.62  | 40.38    | 20.38  | 57.86  | 100    | 0       | P     | V     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz |                                                                                             | 10460     | 41.72      | -32.28 | 74         | 47.88  | 37.27    | 16.41  | 59.84  | 100    | 0       | P     | H     |
|                                       |                                                                                             | 15690     | 46.79      | -27.21 | 74         | 43.62  | 40.53    | 20.43  | 57.79  | 100    | 0       | P     | H     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                                             | 10460     | 42.53      | -31.47 | 74         | 48.69  | 37.27    | 16.41  | 59.84  | 100    | 0       | P     | V     |
|                                       |                                                                                             | 15690     | 46.45      | -27.55 | 74         | 43.28  | 40.53    | 20.43  | 57.79  | 100    | 0       | P     | V     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## 15E band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                                   |                                                                                             | ( 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 |                                                                                             | 5143.55   | 60.87      | -13.13 | 74         | 47.16  | 34.61    | 11.55  | 32.45  | 101    | 112     | P     | H     |
|                                       |                                                                                             | 5148.35   | 48.73      | -5.27  | 54         | 35.06  | 34.61    | 11.55  | 32.49  | 101    | 112     | A     | H     |
|                                       | *                                                                                           | 5209      | 95.22      | -      | -          | 81.48  | 34.7     | 11.59  | 32.55  | 101    | 112     | P     | H     |
|                                       | *                                                                                           | 5209      | 85.75      | -      | -          | 72.01  | 34.7     | 11.59  | 32.55  | 101    | 112     | A     | H     |
|                                       |                                                                                             | 5358.58   | 58.61      | -15.39 | 74         | 45.19  | 34.89    | 11.71  | 33.18  | 101    | 112     | P     | H     |
|                                       |                                                                                             | 5363.97   | 45.09      | -8.91  | 54         | 31.65  | 34.91    | 11.71  | 33.18  | 101    | 112     | A     | H     |
|                                       |                                                                                             | 5148.65   | 66.02      | -7.98  | 74         | 52.35  | 34.61    | 11.55  | 32.49  | 262    | 283     | P     | V     |
|                                       |                                                                                             | 5150      | 53.23      | -0.77  | 54         | 39.56  | 34.61    | 11.55  | 32.49  | 262    | 283     | A     | V     |
|                                       | *                                                                                           | 5212      | 100.97     | -      | -          | 87.23  | 34.7     | 11.59  | 32.55  | 262    | 283     | P     | V     |
|                                       | *                                                                                           | 5212      | 90.37      | -      | -          | 76.63  | 34.7     | 11.59  | 32.55  | 262    | 283     | A     | V     |
|                                       |                                                                                             | 5395.43   | 58.41      | -15.59 | 74         | 44.99  | 34.96    | 11.74  | 33.28  | 262    | 283     | P     | V     |
|                                       |                                                                                             | 5370.13   | 45.63      | -8.37  | 54         | 32.19  | 34.91    | 11.71  | 33.18  | 262    | 283     | 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) (with PMA wireless charger)**

| 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+2                                   |                                                              | ( 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     | 41.83      | -32.17 | 74         | 48.08  | 37.25    | 16.37  | 59.87  | 100    | 0       | P     | H     |
|                                       |                                                              | 15630     | 45.59      | -28.41 | 74         | 42.53  | 40.47    | 20.41  | 57.82  | 100    | 0       | P     | H     |
|                                       |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                              | 10420     | 42.34      | -31.66 | 74         | 48.59  | 37.25    | 16.37  | 59.87  | 100    | 0       | P     | V     |
|                                       |                                                              | 15630     | 45.78      | -28.22 | 74         | 42.72  | 40.47    | 20.41  | 57.82  | 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 802.11a (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                         |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5120.3    | 56.63      | -17.37 | 74         | 43.02    | 34.56    | 11.5   | 32.45  | 100    | 67      | P       | H       |
|                             |      | 5143.7    | 43.51      | -10.49 | 54         | 29.8     | 34.61    | 11.55  | 32.45  | 100    | 67      | A       | H       |
|                             | *    | 5261      | 105.17     | -      | -          | 91.51    | 34.77    | 11.65  | 32.76  | 100    | 67      | P       | H       |
|                             | *    | 5261      | 95.9       | -      | -          | 82.24    | 34.77    | 11.65  | 32.76  | 100    | 67      | A       | H       |
|                             |      | 5370.35   | 57.2       | -16.8  | 74         | 43.76    | 34.91    | 11.71  | 33.18  | 100    | 67      | P       | H       |
|                             |      | 5384.43   | 43.86      | -10.14 | 54         | 30.46    | 34.94    | 11.74  | 33.28  | 100    | 67      | A       | H       |
|                             |      | 5005.55   | 57.3       | -16.7  | 74         | 43.8     | 34.42    | 11.37  | 32.29  | 264    | 97      | P       | V       |
|                             |      | 5148.95   | 43.46      | -10.54 | 54         | 29.79    | 34.61    | 11.55  | 32.49  | 264    | 97      | A       | V       |
|                             | *    | 5260      | 111.77     | -      | -          | 98.14    | 34.77    | 11.62  | 32.76  | 264    | 97      | P       | V       |
|                             | *    | 5260      | 102.44     | -      | -          | 88.81    | 34.77    | 11.62  | 32.76  | 264    | 97      | A       | V       |
|                             |      | 5382.89   | 57.46      | -16.54 | 74         | 44.06    | 34.94    | 11.74  | 33.28  | 264    | 97      | P       | V       |
|                             |      | 5394.11   | 44.01      | -9.99  | 54         | 30.61    | 34.94    | 11.74  | 33.28  | 264    | 97      | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5123.15   | 57.01      | -16.99 | 74         | 43.37    | 34.59    | 11.5   | 32.45  | 100    | 66      | P       | H       |
|                             |      | 5145.5    | 43.51      | -10.49 | 54         | 29.84    | 34.61    | 11.55  | 32.49  | 100    | 66      | A       | H       |
|                             | *    | 5299      | 105.48     | -      | -          | 91.98    | 34.82    | 11.65  | 32.97  | 100    | 66      | P       | H       |
|                             | *    | 5299      | 95.68      | -      | -          | 82.18    | 34.82    | 11.65  | 32.97  | 100    | 66      | A       | H       |
|                             |      | 5351.1    | 61.15      | -12.85 | 74         | 47.73    | 34.89    | 11.71  | 33.18  | 100    | 66      | P       | H       |
|                             |      | 5352.64   | 44.03      | -9.97  | 54         | 30.61    | 34.89    | 11.71  | 33.18  | 100    | 66      | A       | H       |
|                             |      | 5021.3    | 57.42      | -16.58 | 74         | 43.88    | 34.45    | 11.41  | 32.32  | 264    | 97      | P       | V       |
|                             |      | 5007.2    | 43.55      | -10.45 | 54         | 30.05    | 34.42    | 11.37  | 32.29  | 264    | 97      | A       | V       |
|                             | *    | 5302      | 111.39     | -      | -          | 97.86    | 34.82    | 11.68  | 32.97  | 264    | 97      | P       | V       |
|                             | *    | 5302      | 102.27     | -      | -          | 88.74    | 34.82    | 11.68  | 32.97  | 264    | 97      | A       | V       |
|                             |      | 5350.55   | 67.83      | -6.17  | 74         | 54.41    | 34.89    | 11.71  | 33.18  | 264    | 97      | P       | V       |
|                             |      | 5351.76   | 45.48      | -8.52  | 54         | 32.06    | 34.89    | 11.71  | 33.18  | 264    | 97      | A       | V       |



|                                                  |                                                                                             |         |        |       |    |       |       |       |       |     |    |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|----|-------|-------|-------|-------|-----|----|---|---|
| <b>802.11a</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 105.32 | -     | -  | 91.77 | 34.84 | 11.68 | 32.97 | 100 | 66 | P | H |
|                                                  | *                                                                                           | 5320    | 95.89  | -     | -  | 82.34 | 34.84 | 11.68 | 32.97 | 100 | 66 | A | H |
|                                                  |                                                                                             | 5350.99 | 69.38  | -4.62 | 74 | 55.96 | 34.89 | 11.71 | 33.18 | 100 | 66 | P | H |
|                                                  |                                                                                             | 5350.33 | 46.71  | -7.29 | 54 | 33.29 | 34.89 | 11.71 | 33.18 | 100 | 66 | A | H |
|                                                  |                                                                                             |         |        |       |    |       |       |       |       |     |    |   | H |
|                                                  |                                                                                             |         |        |       |    |       |       |       |       |     |    |   | H |
|                                                  | *                                                                                           | 5323    | 112.08 | -     | -  | 98.64 | 34.84 | 11.68 | 33.08 | 258 | 94 | P | V |
|                                                  | *                                                                                           | 5323    | 102.47 | -     | -  | 89.03 | 34.84 | 11.68 | 33.08 | 258 | 94 | A | V |
|                                                  |                                                                                             | 5350.33 | 72.35  | -1.65 | 74 | 58.93 | 34.89 | 11.71 | 33.18 | 258 | 94 | P | V |
|                                                  |                                                                                             | 5350.11 | 50.83  | -3.17 | 54 | 37.41 | 34.89 | 11.71 | 33.18 | 258 | 94 | 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) (with PMA wireless charger)

| 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+2                         |                                                                                             | ( 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     | 41.35      | -32.65 | 74         | 47.32    | 37.32    | 16.49  | 59.78  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15780     | 47.83      | -26.17 | 74         | 44.47    | 40.63    | 20.46  | 57.73  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10520     | 41.03      | -32.97 | 74         | 47       | 37.32    | 16.49  | 59.78  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15780     | 47.83      | -26.17 | 74         | 44.47    | 40.63    | 20.46  | 57.73  | 100    | 0       | P       | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 60<br>5300MHz |                                                                                             | 10600     | 41.13      | -32.87 | 74         | 46.81    | 37.42    | 16.56  | 59.66  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15900     | 47.5       | -26.5  | 74         | 43.86    | 40.78    | 20.52  | 57.66  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10600     | 40.97      | -33.03 | 74         | 46.65    | 37.42    | 16.56  | 59.66  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15900     | 47.74      | -26.26 | 74         | 44.1     | 40.78    | 20.52  | 57.66  | 100    | 0       | P       | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 64<br>5320MHz |                                                                                             | 10640     | 40.4       | -33.6  | 74         | 45.94    | 37.47    | 16.6   | 59.61  | 100    | 0       | P       | H       |
|                             |                                                                                             | 15960     | 47         | -27    | 74         | 43.21    | 40.86    | 20.55  | 57.62  | 100    | 0       | P       | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |                                                                                             | 10640     | 40.09      | -33.91 | 74         | 45.63    | 37.47    | 16.6   | 59.61  | 100    | 0       | P       | V       |
|                             |                                                                                             | 15960     | 46.41      | -27.59 | 74         | 42.62    | 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) (with PMA wireless charger)

| 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+2                                 |      | ( 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 |      | 5383.28   | 57.3       | -16.7  | 74         | 43.9     | 34.94    | 11.74  | 33.28  | 216    | 85      | P       | H       |
|                                     |      | 5406      | 44.26      | -9.74  | 54         | 30.95    | 34.96    | 11.74  | 33.39  | 216    | 85      | A       | H       |
|                                     | *    | 5260      | 105.79     | -      | -          | 92.16    | 34.77    | 11.62  | 32.76  | 216    | 85      | P       | H       |
|                                     | *    | 5260      | 95.69      | -      | -          | 82.06    | 34.77    | 11.62  | 32.76  | 216    | 85      | A       | H       |
|                                     |      | 5740.6    | 56.76      | -17.24 | 74         | 43.36    | 35.24    | 12.33  | 34.17  | 216    | 85      | P       | H       |
|                                     |      | 5746.6    | 44.04      | -9.96  | 54         | 30.64    | 35.24    | 12.33  | 34.17  | 216    | 85      | A       | H       |
|                                     |      | 5434.64   | 58.15      | -15.85 | 74         | 44.82    | 35.01    | 11.8   | 33.48  | 305    | 85      | P       | V       |
|                                     |      | 5395.12   | 44.31      | -9.69  | 54         | 30.89    | 34.96    | 11.74  | 33.28  | 305    | 85      | A       | V       |
|                                     | *    | 5260      | 110.59     | -      | -          | 96.96    | 34.77    | 11.62  | 32.76  | 305    | 85      | P       | V       |
|                                     | *    | 5260      | 100.26     | -      | -          | 86.63    | 34.77    | 11.62  | 32.76  | 305    | 85      | A       | V       |
|                                     |      | 5762.6    | 57.7       | -16.3  | 74         | 44.31    | 35.26    | 12.33  | 34.2   | 305    | 85      | P       | V       |
|                                     |      | 5755.96   | 44         | -10    | 54         | 30.61    | 35.26    | 12.33  | 34.2   | 305    | 85      | A       | V       |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5383.28   | 57.26      | -16.74 | 74         | 43.86    | 34.94    | 11.74  | 33.28  | 237    | 85      | P       | H       |
|                                     |      | 5354.48   | 44.41      | -9.59  | 54         | 30.99    | 34.89    | 11.71  | 33.18  | 237    | 85      | A       | H       |
|                                     | *    | 5300      | 105.94     | -      | -          | 92.44    | 34.82    | 11.65  | 32.97  | 237    | 85      | P       | H       |
|                                     | *    | 5300      | 95.39      | -      | -          | 81.89    | 34.82    | 11.65  | 32.97  | 237    | 85      | A       | H       |
|                                     |      | 5760.76   | 57.29      | -16.71 | 74         | 43.9     | 35.26    | 12.33  | 34.2   | 237    | 85      | P       | H       |
|                                     |      | 5753.96   | 44.05      | -9.95  | 54         | 30.63    | 35.26    | 12.33  | 34.17  | 237    | 85      | A       | H       |
|                                     |      | 5351.92   | 59.24      | -14.76 | 74         | 45.82    | 34.89    | 11.71  | 33.18  | 282    | 80      | P       | V       |
|                                     |      | 5351.76   | 44.93      | -9.07  | 54         | 31.51    | 34.89    | 11.71  | 33.18  | 282    | 80      | A       | V       |
|                                     | *    | 5300      | 110.3      | -      | -          | 96.8     | 34.82    | 11.65  | 32.97  | 282    | 80      | P       | V       |
|                                     | *    | 5300      | 100.22     | -      | -          | 86.72    | 34.82    | 11.65  | 32.97  | 282    | 80      | A       | V       |
|                                     |      | 5729.48   | 57.75      | -16.25 | 74         | 44.41    | 35.23    | 12.26  | 34.15  | 282    | 80      | P       | V       |
|                                     |      | 5752.12   | 43.98      | -10.02 | 54         | 30.56    | 35.26    | 12.33  | 34.17  | 282    | 80      | A       | V       |



|                                                                 |                                                                                             |         |        |       |    |       |       |       |       |     |    |   |   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|----|-------|-------|-------|-------|-----|----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 106.47 | -     | -  | 92.92 | 34.84 | 11.68 | 32.97 | 234 | 86 | P | H |
|                                                                 | *                                                                                           | 5320    | 96.03  | -     | -  | 82.48 | 34.84 | 11.68 | 32.97 | 234 | 86 | A | H |
|                                                                 |                                                                                             | 5358.25 | 65.28  | -8.72 | 74 | 51.86 | 34.89 | 11.71 | 33.18 | 234 | 86 | P | H |
|                                                                 |                                                                                             | 5350.77 | 46.25  | -7.75 | 54 | 32.83 | 34.89 | 11.71 | 33.18 | 234 | 86 | A | H |
|                                                                 |                                                                                             |         |        |       |    |       |       |       |       |     |    |   | H |
|                                                                 |                                                                                             |         |        |       |    |       |       |       |       |     |    |   | H |
|                                                                 | *                                                                                           | 5320    | 111.14 | -     | -  | 97.59 | 34.84 | 11.68 | 32.97 | 267 | 94 | P | V |
|                                                                 | *                                                                                           | 5320    | 100.67 | -     | -  | 87.12 | 34.84 | 11.68 | 32.97 | 267 | 94 | A | V |
|                                                                 |                                                                                             | 5352.42 | 69.62  | -4.38 | 74 | 56.2  | 34.89 | 11.71 | 33.18 | 267 | 94 | P | V |
|                                                                 |                                                                                             | 5350    | 48.82  | -5.18 | 54 | 35.4  | 34.89 | 11.71 | 33.18 | 267 | 94 | 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) (with PMA wireless charger)

| 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+2                                 |                                                                                             | ( 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     | 42.39      | -31.61 | 74         | 48.36    | 37.32    | 16.49  | 59.78  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 15780     | 47.01      | -26.99 | 74         | 43.65    | 40.63    | 20.46  | 57.73  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 10520     | 41.95      | -32.05 | 74         | 47.92    | 37.32    | 16.49  | 59.78  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 15780     | 48.07      | -25.93 | 74         | 44.71    | 40.63    | 20.46  | 57.73  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |                                                                                             | 10600     | 41.21      | -32.79 | 74         | 46.89    | 37.42    | 16.56  | 59.66  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 15900     | 47.25      | -26.75 | 74         | 43.61    | 40.78    | 20.52  | 57.66  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 10600     | 40.75      | -33.25 | 74         | 46.43    | 37.42    | 16.56  | 59.66  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 15900     | 47.29      | -26.71 | 74         | 43.65    | 40.78    | 20.52  | 57.66  | 100    | 0       | P       | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |                                                                                             | 10640     | 42.5       | -31.5  | 74         | 48.04    | 37.47    | 16.6   | 59.61  | 100    | 0       | P       | H       |
|                                     |                                                                                             | 15960     | 46.97      | -27.03 | 74         | 43.18    | 40.86    | 20.55  | 57.62  | 100    | 0       | P       | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |                                                                                             | 10640     | 42.44      | -31.56 | 74         | 47.98    | 37.47    | 16.6   | 59.61  | 100    | 0       | P       | V       |
|                                     |                                                                                             | 15960     | 47.35      | -26.65 | 74         | 43.56    | 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) (with PMA wireless charger)

| 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+2                                 |                                                                                             | ( 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 |                                                                                             | 5127.2    | 57.04      | -16.96 | 74         | 43.4   | 34.59    | 11.5   | 32.45  | 223    | 83      | P     | H     |
|                                     |                                                                                             | 5144.45   | 44.26      | -9.74  | 54         | 30.59  | 34.61    | 11.55  | 32.49  | 223    | 83      | A     | H     |
|                                     | *                                                                                           | 5270      | 102.57     | -      | -          | 88.91  | 34.77    | 11.65  | 32.76  | 223    | 83      | P     | H     |
|                                     | *                                                                                           | 5270      | 92.14      | -      | -          | 78.48  | 34.77    | 11.65  | 32.76  | 223    | 83      | A     | H     |
|                                     |                                                                                             | 5354.84   | 60.61      | -13.39 | 74         | 47.19  | 34.89    | 11.71  | 33.18  | 223    | 83      | P     | H     |
|                                     |                                                                                             | 5399.17   | 44.8       | -9.2   | 54         | 31.49  | 34.96    | 11.74  | 33.39  | 223    | 83      | A     | H     |
|                                     |                                                                                             | 5126.75   | 59.5       | -14.5  | 74         | 45.86  | 34.59    | 11.5   | 32.45  | 285    | 91      | P     | V     |
|                                     |                                                                                             | 5118.95   | 44.23      | -9.77  | 54         | 30.62  | 34.56    | 11.5   | 32.45  | 285    | 91      | A     | V     |
|                                     | *                                                                                           | 5270      | 107.28     | -      | -          | 93.62  | 34.77    | 11.65  | 32.76  | 285    | 91      | P     | V     |
|                                     | *                                                                                           | 5270      | 97.19      | -      | -          | 83.53  | 34.77    | 11.65  | 32.76  | 285    | 91      | A     | V     |
|                                     |                                                                                             | 5363.2    | 62.38      | -11.62 | 74         | 48.94  | 34.91    | 11.71  | 33.18  | 285    | 91      | P     | V     |
|                                     |                                                                                             | 5350      | 44.95      | -9.05  | 54         | 31.53  | 34.89    | 11.71  | 33.18  | 285    | 91      | A     | V     |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |                                                                                             | 5090      | 56.89      | -17.11 | 74         | 43.28  | 34.54    | 11.46  | 32.39  | 294    | 194     | P     | H     |
|                                     |                                                                                             | 5143.25   | 44.72      | -9.28  | 54         | 31.01  | 34.61    | 11.55  | 32.45  | 294    | 194     | A     | H     |
|                                     | *                                                                                           | 5310      | 101.2      | -      | -          | 87.65  | 34.84    | 11.68  | 32.97  | 294    | 194     | P     | H     |
|                                     | *                                                                                           | 5310      | 90.45      | -      | -          | 76.9   | 34.84    | 11.68  | 32.97  | 294    | 194     | A     | H     |
|                                     |                                                                                             | 5351.54   | 69.12      | -4.88  | 74         | 55.7   | 34.89    | 11.71  | 33.18  | 294    | 194     | P     | H     |
|                                     |                                                                                             | 5350.22   | 49.9       | -4.1   | 54         | 36.48  | 34.89    | 11.71  | 33.18  | 294    | 194     | A     | H     |
|                                     |                                                                                             | 5089.4    | 57.44      | -16.56 | 74         | 43.83  | 34.54    | 11.46  | 32.39  | 266    | 290     | P     | V     |
|                                     |                                                                                             | 5145.05   | 44.89      | -9.11  | 54         | 31.22  | 34.61    | 11.55  | 32.49  | 266    | 290     | A     | V     |
|                                     | *                                                                                           | 5310      | 104.79     | -      | -          | 91.24  | 34.84    | 11.68  | 32.97  | 266    | 290     | P     | V     |
|                                     | *                                                                                           | 5310      | 95.39      | -      | -          | 81.84  | 34.84    | 11.68  | 32.97  | 266    | 290     | A     | V     |
|                                     |                                                                                             | 5351.65   | 68.6       | -5.4   | 74         | 55.18  | 34.89    | 11.71  | 33.18  | 266    | 290     | P     | V     |
|                                     |                                                                                             | 5350.11   | 51.79      | -2.21  | 54         | 38.37  | 34.89    | 11.71  | 33.18  | 266    | 290     | 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) (with PMA wireless charger)

| 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+2                                 |                                                                                             | ( 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     | 42.95      | -31.05 | 74         | 48.87  | 37.34    | 16.49  | 59.75  | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15810     | 46.83      | -27.17 | 74         | 43.39  | 40.67    | 20.48  | 57.71  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10540     | 42.13      | -31.87 | 74         | 48.05  | 37.34    | 16.49  | 59.75  | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15810     | 47.27      | -26.73 | 74         | 43.83  | 40.67    | 20.48  | 57.71  | 100    | 0       | P     | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |                                                                                             | 10620     | 41         | -33    | 74         | 46.63  | 37.44    | 16.56  | 59.63  | 100    | 0       | P     | H     |
|                                     |                                                                                             | 15930     | 47.24      | -26.76 | 74         | 43.53  | 40.82    | 20.53  | 57.64  | 100    | 0       | P     | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                     |                                                                                             | 10620     | 40.86      | -33.14 | 74         | 46.49  | 37.44    | 16.56  | 59.63  | 100    | 0       | P     | V     |
|                                     |                                                                                             | 15930     | 47.29      | -26.71 | 74         | 43.58  | 40.82    | 20.53  | 57.64  | 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 802.11ac VHT20 (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                                   |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT20<br>CH 52<br>5260MHz |      | 5091.05   | 57.24      | -16.76 | 74         | 43.63    | 34.54    | 11.46  | 32.39  | 300    | 194     | P       | H       |
|                                       |      | 5133.8    | 43.93      | -10.07 | 54         | 30.29    | 34.59    | 11.5   | 32.45  | 300    | 194     | A       | H       |
|                                       | *    | 5258      | 104.59     | -      | -          | 90.98    | 34.75    | 11.62  | 32.76  | 300    | 194     | P       | H       |
|                                       | *    | 5258      | 94.77      | -      | -          | 81.16    | 34.75    | 11.62  | 32.76  | 300    | 194     | A       | H       |
|                                       |      | 5436.46   | 57.82      | -16.18 | 74         | 44.49    | 35.01    | 11.8   | 33.48  | 300    | 194     | P       | H       |
|                                       |      | 5407.09   | 44.3       | -9.7   | 54         | 30.99    | 34.96    | 11.74  | 33.39  | 300    | 194     | A       | H       |
|                                       |      | 5142.95   | 57.15      | -16.85 | 74         | 43.44    | 34.61    | 11.55  | 32.45  | 209    | 285     | P       | V       |
|                                       |      | 5143.7    | 43.83      | -10.17 | 54         | 30.12    | 34.61    | 11.55  | 32.45  | 209    | 285     | A       | V       |
|                                       | *    | 5260      | 109.6      | -      | -          | 95.97    | 34.77    | 11.62  | 32.76  | 209    | 285     | P       | V       |
|                                       | *    | 5260      | 100.33     | -      | -          | 86.7     | 34.77    | 11.62  | 32.76  | 209    | 285     | A       | V       |
|                                       |      | 5383      | 57.46      | -16.54 | 74         | 44.06    | 34.94    | 11.74  | 33.28  | 209    | 285     | P       | V       |
| 802.11ac<br>VHT20<br>CH 60<br>5300MHz |      | 5097.2    | 57.74      | -16.26 | 74         | 44.16    | 34.54    | 11.46  | 32.42  | 274    | 195     | P       | H       |
|                                       |      | 5123.15   | 43.84      | -10.16 | 54         | 30.2     | 34.59    | 11.5   | 32.45  | 274    | 195     | A       | H       |
|                                       | *    | 5299      | 105.78     | -      | -          | 92.28    | 34.82    | 11.65  | 32.97  | 274    | 195     | P       | H       |
|                                       | *    | 5299      | 95.81      | -      | -          | 82.31    | 34.82    | 11.65  | 32.97  | 274    | 195     | A       | H       |
|                                       |      | 5356.16   | 58.48      | -15.52 | 74         | 45.06    | 34.89    | 11.71  | 33.18  | 274    | 195     | P       | H       |
|                                       |      | 5352.53   | 44.49      | -9.51  | 54         | 31.07    | 34.89    | 11.71  | 33.18  | 274    | 195     | A       | H       |
|                                       |      | 5115.5    | 56.91      | -17.09 | 74         | 43.27    | 34.56    | 11.5   | 32.42  | 222    | 285     | P       | V       |
|                                       |      | 5132.9    | 43.81      | -10.19 | 54         | 30.17    | 34.59    | 11.5   | 32.45  | 222    | 285     | A       | V       |
|                                       | *    | 5300      | 110.44     | -      | -          | 96.94    | 34.82    | 11.65  | 32.97  | 222    | 285     | P       | V       |
|                                       | *    | 5300      | 100.91     | -      | -          | 87.41    | 34.82    | 11.65  | 32.97  | 222    | 285     | A       | V       |
|                                       |      | 5351.1    | 61.53      | -12.47 | 74         | 48.11    | 34.89    | 11.71  | 33.18  | 222    | 285     | P       | V       |
|                                       |      | 5350.88   | 44.8       | -9.2   | 54         | 31.38    | 34.89    | 11.71  | 33.18  | 222    | 285     | A       | V       |



|                                                                   |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 64</b><br><b>5320MHz</b> |                                                                                             | 5000.6  | 57.1   | -16.9  | 74 | 43.62 | 34.4  | 11.37 | 32.29 | 274 | 195 | P | H |
|                                                                   |                                                                                             | 5143.55 | 44.01  | -9.99  | 54 | 30.3  | 34.61 | 11.55 | 32.45 | 274 | 195 | A | H |
|                                                                   | *                                                                                           | 5319    | 106.07 | -      | -  | 92.52 | 34.84 | 11.68 | 32.97 | 274 | 195 | P | H |
|                                                                   | *                                                                                           | 5319    | 96.02  | -      | -  | 82.47 | 34.84 | 11.68 | 32.97 | 274 | 195 | A | H |
|                                                                   |                                                                                             | 5350.66 | 69.3   | -4.7   | 74 | 55.88 | 34.89 | 11.71 | 33.18 | 274 | 195 | P | H |
|                                                                   |                                                                                             | 5350.22 | 46.39  | -7.61  | 54 | 32.97 | 34.89 | 11.71 | 33.18 | 274 | 195 | A | H |
|                                                                   |                                                                                             | 5144    | 57.64  | -16.36 | 74 | 43.97 | 34.61 | 11.55 | 32.49 | 266 | 291 | P | V |
|                                                                   |                                                                                             | 5141    | 43.87  | -10.13 | 54 | 30.16 | 34.61 | 11.55 | 32.45 | 266 | 291 | A | V |
|                                                                   | *                                                                                           | 5320    | 109.93 | -      | -  | 96.38 | 34.84 | 11.68 | 32.97 | 266 | 291 | P | V |
|                                                                   | *                                                                                           | 5320    | 100.16 | -      | -  | 86.61 | 34.84 | 11.68 | 32.97 | 266 | 291 | A | V |
|                                                                   |                                                                                             | 5351.43 | 70.99  | -3.01  | 74 | 57.57 | 34.89 | 11.71 | 33.18 | 266 | 291 | P | V |
|                                                                   |                                                                                             | 5350.99 | 47.48  | -6.52  | 54 | 34.06 | 34.89 | 11.71 | 33.18 | 266 | 291 | A | 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 802.11ac VHT20 (Harmonic @ 3m) (with PMA wireless charger)

| 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+2                                   |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT20<br>CH 52<br>5260MHz |                                                                                             | 10520     | 42.81      | -31.19 | 74         | 48.78    | 37.32    | 16.49  | 59.78  | 100    | 0       | P       | H       |
|                                       |                                                                                             | 15780     | 48.23      | -25.77 | 74         | 44.87    | 40.63    | 20.46  | 57.73  | 100    | 0       | P       | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             | 10520     | 44.33      | -29.67 | 74         | 50.3     | 37.32    | 16.49  | 59.78  | 100    | 0       | P       | V       |
|                                       |                                                                                             | 15780     | 47.49      | -26.51 | 74         | 44.13    | 40.63    | 20.46  | 57.73  | 100    | 0       | P       | V       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11ac<br>VHT20<br>CH 60<br>5300MHz |                                                                                             | 10600     | 41.45      | -32.55 | 74         | 47.13    | 37.42    | 16.56  | 59.66  | 100    | 0       | P       | H       |
|                                       |                                                                                             | 15900     | 47.5       | -26.5  | 74         | 43.86    | 40.78    | 20.52  | 57.66  | 100    | 0       | P       | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             | 10600     | 41         | -33    | 74         | 46.68    | 37.42    | 16.56  | 59.66  | 100    | 0       | P       | V       |
|                                       |                                                                                             | 15900     | 47.36      | -26.64 | 74         | 43.72    | 40.78    | 20.52  | 57.66  | 100    | 0       | P       | V       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11ac<br>VHT20<br>CH 64<br>5320MHz |                                                                                             | 10640     | 40.94      | -33.06 | 74         | 46.48    | 37.47    | 16.6   | 59.61  | 100    | 0       | P       | H       |
|                                       |                                                                                             | 15960     | 47.48      | -26.52 | 74         | 43.69    | 40.86    | 20.55  | 57.62  | 100    | 0       | P       | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |                                                                                             | 10640     | 43.53      | -30.47 | 74         | 49.07    | 37.47    | 16.6   | 59.61  | 100    | 0       | P       | V       |
|                                       |                                                                                             | 15960     | 46.56      | -27.44 | 74         | 42.77    | 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 802.11ac VHT40 (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                                   |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac<br>VHT40<br>CH 54<br>5270MHz |                                                                                             | 5078      | 57.26      | -16.74 | 74         | 43.67  | 34.52    | 11.46  | 32.39  | 224    | 84      | P     | H     |
|                                       |                                                                                             | 5132.15   | 44.29      | -9.71  | 54         | 30.65  | 34.59    | 11.5   | 32.45  | 224    | 84      | A     | H     |
|                                       | *                                                                                           | 5270      | 102.74     | -      | -          | 89.08  | 34.77    | 11.65  | 32.76  | 224    | 84      | P     | H     |
|                                       | *                                                                                           | 5270      | 92.5       | -      | -          | 78.84  | 34.77    | 11.65  | 32.76  | 224    | 84      | A     | H     |
|                                       |                                                                                             | 5354.51   | 61.65      | -12.35 | 74         | 48.23  | 34.89    | 11.71  | 33.18  | 224    | 84      | P     | H     |
|                                       |                                                                                             | 5350.22   | 44.68      | -9.32  | 54         | 31.26  | 34.89    | 11.71  | 33.18  | 224    | 84      | A     | H     |
|                                       |                                                                                             | 5146.85   | 59.15      | -14.85 | 74         | 45.48  | 34.61    | 11.55  | 32.49  | 284    | 94      | P     | V     |
|                                       |                                                                                             | 5147.6    | 44.36      | -9.64  | 54         | 30.69  | 34.61    | 11.55  | 32.49  | 284    | 94      | A     | V     |
|                                       | *                                                                                           | 5270      | 107.34     | -      | -          | 93.68  | 34.77    | 11.65  | 32.76  | 284    | 94      | P     | V     |
|                                       | *                                                                                           | 5270      | 97.23      | -      | -          | 83.57  | 34.77    | 11.65  | 32.76  | 284    | 94      | A     | V     |
|                                       |                                                                                             | 5369.47   | 63.44      | -10.56 | 74         | 50     | 34.91    | 11.71  | 33.18  | 284    | 94      | P     | V     |
| 802.11ac<br>VHT40<br>CH 62<br>5310MHz |                                                                                             | 5092.1    | 57.3       | -16.7  | 74         | 43.69  | 34.54    | 11.46  | 32.39  | 217    | 85      | P     | H     |
|                                       |                                                                                             | 5144      | 44.23      | -9.77  | 54         | 30.56  | 34.61    | 11.55  | 32.49  | 217    | 85      | A     | H     |
|                                       | *                                                                                           | 5310      | 102.21     | -      | -          | 88.66  | 34.84    | 11.68  | 32.97  | 217    | 85      | P     | H     |
|                                       | *                                                                                           | 5310      | 92.06      | -      | -          | 78.51  | 34.84    | 11.68  | 32.97  | 217    | 85      | A     | H     |
|                                       |                                                                                             | 5356.71   | 68.59      | -5.41  | 74         | 55.17  | 34.89    | 11.71  | 33.18  | 217    | 85      | P     | H     |
|                                       |                                                                                             | 5350.66   | 49.99      | -4.01  | 54         | 36.57  | 34.89    | 11.71  | 33.18  | 217    | 85      | A     | H     |
|                                       |                                                                                             | 5007.2    | 58.5       | -15.5  | 74         | 45     | 34.42    | 11.37  | 32.29  | 296    | 87      | P     | V     |
|                                       |                                                                                             | 5147.15   | 44.51      | -9.49  | 54         | 30.84  | 34.61    | 11.55  | 32.49  | 296    | 87      | A     | V     |
|                                       | *                                                                                           | 5310      | 107.42     | -      | -          | 93.87  | 34.84    | 11.68  | 32.97  | 296    | 87      | P     | V     |
|                                       | *                                                                                           | 5310      | 96.78      | -      | -          | 83.23  | 34.84    | 11.68  | 32.97  | 296    | 87      | A     | V     |
|                                       |                                                                                             | 5356.49   | 71.15      | -2.85  | 74         | 57.73  | 34.89    | 11.71  | 33.18  | 296    | 87      | P     | V     |
|                                       |                                                                                             | 5350.11   | 53.4       | -0.6   | 54         | 39.98  | 34.89    | 11.71  | 33.18  | 296    | 87      | 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 VHT40 (Harmonic @ 3m) (with PMA wireless charger)

| 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+2                                   |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac<br>VHT40<br>CH 54<br>5270MHz |                                                                                             | 10540     | 41.88      | -32.12 | 74         | 47.8   | 37.34    | 16.49  | 59.75  | 100    | 0       | P     | H     |
|                                       |                                                                                             | 15810     | 47         | -27    | 74         | 43.56  | 40.67    | 20.48  | 57.71  | 100    | 0       | P     | H     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                                             | 10540     | 42.47      | -31.53 | 74         | 48.39  | 37.34    | 16.49  | 59.75  | 100    | 0       | P     | V     |
|                                       |                                                                                             | 15810     | 47.09      | -26.91 | 74         | 43.65  | 40.67    | 20.48  | 57.71  | 100    | 0       | P     | V     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11ac<br>VHT40<br>CH 62<br>5310MHz |                                                                                             | 10620     | 41.1       | -32.9  | 74         | 46.73  | 37.44    | 16.56  | 59.63  | 100    | 0       | P     | H     |
|                                       |                                                                                             | 15930     | 47.53      | -26.47 | 74         | 43.82  | 40.82    | 20.53  | 57.64  | 100    | 0       | P     | H     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                                                             | 10620     | 40.82      | -33.18 | 74         | 46.45  | 37.44    | 16.56  | 59.63  | 100    | 0       | P     | V     |
|                                       |                                                                                             | 15930     | 46.28      | -27.72 | 74         | 42.57  | 40.82    | 20.53  | 57.64  | 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 802.11ac VHT80 (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                                   |                                                                                             | ( 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 |                                                                                             | 5120.45   | 57.37      | -16.63 | 74         | 43.76    | 34.56    | 11.5   | 32.45  | 100    | 115     | P       | H       |
|                                       |                                                                                             | 5148.65   | 44.88      | -9.12  | 54         | 31.21    | 34.61    | 11.55  | 32.49  | 100    | 115     | A       | H       |
|                                       | *                                                                                           | 5290      | 97.31      | -      | -          | 83.72    | 34.8     | 11.65  | 32.86  | 100    | 115     | P       | H       |
|                                       | *                                                                                           | 5290      | 87.81      | -      | -          | 74.22    | 34.8     | 11.65  | 32.86  | 100    | 115     | A       | H       |
|                                       |                                                                                             | 5360.12   | 63.33      | -10.67 | 74         | 49.91    | 34.89    | 11.71  | 33.18  | 100    | 115     | P       | H       |
|                                       |                                                                                             | 5355.94   | 47.75      | -6.25  | 54         | 34.33    | 34.89    | 11.71  | 33.18  | 100    | 115     | A       | H       |
|                                       |                                                                                             | 5064.95   | 57.12      | -16.88 | 74         | 43.52    | 34.49    | 11.46  | 32.35  | 273    | 287     | P       | V       |
|                                       |                                                                                             | 5140.7    | 44.81      | -9.19  | 54         | 31.1     | 34.61    | 11.55  | 32.45  | 273    | 287     | A       | V       |
|                                       | *                                                                                           | 5290      | 101.96     | -      | -          | 88.37    | 34.8     | 11.65  | 32.86  | 273    | 287     | P       | V       |
|                                       | *                                                                                           | 5290      | 92.44      | -      | -          | 78.85    | 34.8     | 11.65  | 32.86  | 273    | 287     | A       | V       |
|                                       |                                                                                             | 5358.14   | 65.25      | -8.75  | 74         | 51.83    | 34.89    | 11.71  | 33.18  | 273    | 287     | P       | V       |
|                                       |                                                                                             | 5352.2    | 49.1       | -4.9   | 54         | 35.68    | 34.89    | 11.71  | 33.18  | 273    | 287     | 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) (with PMA wireless charger)**

| 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+2                                   |                                                              | ( 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     | 41.3       | -32.7  | 74         | 47.06  | 37.4     | 16.52  | 59.68  | 100    | 0       | P     | H     |
|                                       |                                                              | 15870     | 48.22      | -25.78 | 74         | 44.61  | 40.76    | 20.52  | 57.67  | 100    | 0       | P     | H     |
|                                       |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                              | 10580     | 41.62      | -32.38 | 74         | 47.38  | 37.4     | 16.52  | 59.68  | 100    | 0       | P     | V     |
|                                       |                                                              | 15870     | 48         | -26    | 74         | 44.39  | 40.76    | 20.52  | 57.67  | 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 3 - 5470~5725MHz

## WIFI 802.11a (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                          |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5464.24   | 66.78      | -7.22  | 74         | 53.44    | 35.05    | 11.86  | 33.57  | 100    | 68      | P       | H       |
|                              |      | 5470      | 48.77      | -5.23  | 54         | 35.43    | 35.05    | 11.86  | 33.57  | 100    | 68      | A       | H       |
|                              | *    | 5500      | 104.33     | -      | -          | 91.03    | 35.1     | 11.86  | 33.66  | 100    | 68      | P       | H       |
|                              | *    | 5500      | 95.06      | -      | -          | 81.76    | 35.1     | 11.86  | 33.66  | 100    | 68      | A       | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      | 5461.68   | 72.2       | -1.8   | 74         | 58.88    | 35.03    | 11.86  | 33.57  | 256    | 94      | P       | V       |
|                              |      | 5470      | 53.32      | -0.68  | 54         | 39.98    | 35.05    | 11.86  | 33.57  | 256    | 94      | A       | V       |
|                              | *    | 5502      | 111.7      | -      | -          | 98.42    | 35.1     | 11.92  | 33.74  | 256    | 94      | P       | V       |
|                              | *    | 5502      | 101.69     | -      | -          | 88.41    | 35.1     | 11.92  | 33.74  | 256    | 94      | A       | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 116<br>5580MHz |      | 5390.8    | 56.44      | -17.56 | 74         | 43.04    | 34.94    | 11.74  | 33.28  | 100    | 114     | P       | H       |
|                              |      | 5390.8    | 43.8       | -10.2  | 54         | 30.4     | 34.94    | 11.74  | 33.28  | 100    | 114     | A       | H       |
|                              | *    | 5582      | 105.48     | -      | -          | 92.3     | 35.15    | 12.04  | 34.01  | 100    | 114     | P       | H       |
|                              | *    | 5582      | 96.63      | -      | -          | 83.45    | 35.15    | 12.04  | 34.01  | 100    | 114     | A       | H       |
|                              |      | 5745.72   | 56.77      | -17.23 | 74         | 43.37    | 35.24    | 12.33  | 34.17  | 100    | 114     | P       | H       |
|                              |      | 5756.28   | 43.51      | -10.49 | 54         | 30.12    | 35.26    | 12.33  | 34.2   | 100    | 114     | A       | H       |
|                              |      | 5430.48   | 57.09      | -16.91 | 74         | 43.76    | 35.01    | 11.8   | 33.48  | 227    | 101     | P       | V       |
|                              |      | 5395.44   | 43.96      | -10.04 | 54         | 30.54    | 34.96    | 11.74  | 33.28  | 227    | 101     | A       | V       |
|                              | *    | 5579      | 110.19     | -      | -          | 97.08    | 35.14    | 11.98  | 34.01  | 227    | 101     | P       | V       |
|                              | *    | 5579      | 100.63     | -      | -          | 87.52    | 35.14    | 11.98  | 34.01  | 227    | 101     | A       | V       |
|                              |      | 5763.32   | 57.05      | -16.95 | 74         | 43.66    | 35.26    | 12.33  | 34.2   | 227    | 101     | P       | V       |
|                              |      | 5761.64   | 43.52      | -10.48 | 54         | 30.13    | 35.26    | 12.33  | 34.2   | 227    | 101     | A       | V       |



|                                       |                                                                                             |         |        |       |    |       |       |       |       |     |    |   |   |
|---------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|----|-------|-------|-------|-------|-----|----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *                                                                                           | 5700    | 102.33 | -     | -  | 89.06 | 35.21 | 12.18 | 34.12 | 100 | 66 | P | H |
|                                       | *                                                                                           | 5700    | 93.09  | -     | -  | 79.82 | 35.21 | 12.18 | 34.12 | 100 | 66 | A | H |
|                                       |                                                                                             | 5725.48 | 67.86  | -6.14 | 74 | 54.52 | 35.23 | 12.26 | 34.15 | 100 | 66 | P | H |
|                                       |                                                                                             | 5725    | 46.76  | -7.24 | 54 | 33.42 | 35.23 | 12.26 | 34.15 | 100 | 66 | A | H |
|                                       |                                                                                             |         |        |       |    |       |       |       |       |     |    |   | H |
|                                       |                                                                                             |         |        |       |    |       |       |       |       |     |    |   | H |
|                                       | *                                                                                           | 5700    | 109.16 | -     | -  | 95.89 | 35.21 | 12.18 | 34.12 | 224 | 95 | P | V |
|                                       | *                                                                                           | 5700    | 99.5   | -     | -  | 86.23 | 35.21 | 12.18 | 34.12 | 224 | 95 | A | V |
|                                       |                                                                                             | 5725.4  | 73.35  | -0.65 | 74 | 60.01 | 35.23 | 12.26 | 34.15 | 224 | 95 | P | V |
|                                       |                                                                                             | 5726.6  | 52.3   | -1.7  | 54 | 38.96 | 35.23 | 12.26 | 34.15 | 224 | 95 | 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) (with PMA wireless charger)

| 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+2                          |                                                                                             | ( 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     | 45.95      | -28.05 | 74         | 50.21    | 37.9     | 16.94  | 59.1   | 100    | 0       | P       | H       |
|                              |                                                                                             | 16500     | 48.82      | -25.18 | 74         | 43.34    | 41.4     | 20.88  | 56.8   | 100    | 0       | P       | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             | 11000     | 46.66      | -27.34 | 74         | 50.92    | 37.9     | 16.94  | 59.1   | 100    | 0       | P       | V       |
|                              |                                                                                             | 16500     | 49.49      | -24.51 | 74         | 44.01    | 41.4     | 20.88  | 56.8   | 100    | 0       | P       | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 116<br>5580MHz |                                                                                             | 11160     | 45.14      | -28.86 | 74         | 48.73    | 38       | 17.08  | 58.67  | 100    | 0       | P       | H       |
|                              |                                                                                             | 16740     | 48.4       | -25.6  | 74         | 42.09    | 41.88    | 21.04  | 56.61  | 100    | 0       | P       | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             | 11160     | 47.06      | -26.94 | 74         | 50.65    | 38       | 17.08  | 58.67  | 100    | 0       | P       | V       |
|                              |                                                                                             | 16740     | 48.42      | -25.58 | 74         | 42.11    | 41.88    | 21.04  | 56.61  | 100    | 0       | P       | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 140<br>5700MHz |                                                                                             | 11400     | 45.31      | -28.69 | 74         | 47.92    | 38.14    | 17.31  | 58.06  | 100    | 0       | P       | H       |
|                              |                                                                                             | 17100     | 50.16      | -23.84 | 74         | 43.03    | 42.32    | 21.27  | 56.46  | 100    | 0       | P       | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |                                                                                             | 11400     | 46.3       | -27.7  | 74         | 48.91    | 38.14    | 17.31  | 58.06  | 100    | 0       | P       | V       |
|                              |                                                                                             | 17100     | 49.72      | -24.28 | 74         | 42.59    | 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) (with PMA wireless charger)

| 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+2                                  |      | ( 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 |      | 5464.88   | 66.36      | -7.64  | 74         | 53.02  | 35.05    | 11.86  | 33.57  | 275    | 60      | P     | H     |
|                                      |      | 5469.84   | 45.43      | -8.57  | 54         | 32.09  | 35.05    | 11.86  | 33.57  | 275    | 60      | A     | H     |
|                                      | *    | 5500      | 105.28     | -      | -          | 91.98  | 35.1     | 11.86  | 33.66  | 275    | 60      | P     | H     |
|                                      | *    | 5500      | 94.76      | -      | -          | 81.46  | 35.1     | 11.86  | 33.66  | 275    | 60      | A     | H     |
|                                      |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |      |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |      | 5469.68   | 71.83      | -2.17  | 74         | 58.49  | 35.05    | 11.86  | 33.57  | 309    | 99      | P     | V     |
|                                      |      | 5470      | 47.69      | -6.31  | 54         | 34.35  | 35.05    | 11.86  | 33.57  | 309    | 99      | A     | V     |
|                                      | *    | 5500      | 110.36     | -      | -          | 97.06  | 35.1     | 11.86  | 33.66  | 309    | 99      | P     | V     |
|                                      | *    | 5500      | 100.21     | -      | -          | 86.91  | 35.1     | 11.86  | 33.66  | 309    | 99      | A     | V     |
|                                      |      |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                      |      |           |            |        |            |        |          |        |        |        |         |       | V     |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5410.96   | 57.42      | -16.58 | 74         | 44.11  | 34.96    | 11.74  | 33.39  | 218    | 84      | P     | H     |
|                                      |      | 5383.6    | 44.31      | -9.69  | 54         | 30.91  | 34.94    | 11.74  | 33.28  | 218    | 84      | A     | H     |
|                                      | *    | 5580      | 105.54     | -      | -          | 92.43  | 35.14    | 11.98  | 34.01  | 218    | 84      | P     | H     |
|                                      | *    | 5580      | 95.12      | -      | -          | 82.01  | 35.14    | 11.98  | 34.01  | 218    | 84      | A     | H     |
|                                      |      | 5741.96   | 57.61      | -16.39 | 74         | 44.21  | 35.24    | 12.33  | 34.17  | 218    | 84      | P     | H     |
|                                      |      | 5726.36   | 43.99      | -10.01 | 54         | 30.65  | 35.23    | 12.26  | 34.15  | 218    | 84      | A     | H     |
|                                      |      | 5354.32   | 57.77      | -16.23 | 74         | 44.35  | 34.89    | 11.71  | 33.18  | 318    | 102     | P     | V     |
|                                      |      | 5385.36   | 44.25      | -9.75  | 54         | 30.85  | 34.94    | 11.74  | 33.28  | 318    | 102     | A     | V     |
|                                      | *    | 5580      | 110.46     | -      | -          | 97.35  | 35.14    | 11.98  | 34.01  | 318    | 102     | P     | V     |
|                                      | *    | 5580      | 100.14     | -      | -          | 87.03  | 35.14    | 11.98  | 34.01  | 318    | 102     | A     | V     |
|                                      |      | 5761.48   | 57         | -17    | 74         | 43.61  | 35.26    | 12.33  | 34.2   | 318    | 102     | P     | V     |
|                                      |      | 5765      | 44.1       | -9.9   | 54         | 30.71  | 35.26    | 12.33  | 34.2   | 318    | 102     | A     | V     |



|                                                                  |                                                                                             |         |        |       |    |       |       |       |       |     |    |   |   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|----|-------|-------|-------|-------|-----|----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 140</b><br><b>5700MHz</b> | *                                                                                           | 5700    | 105.43 | -     | -  | 92.16 | 35.21 | 12.18 | 34.12 | 102 | 88 | P | H |
|                                                                  | *                                                                                           | 5700    | 95.17  | -     | -  | 81.9  | 35.21 | 12.18 | 34.12 | 102 | 88 | A | H |
|                                                                  |                                                                                             | 5725.64 | 67.96  | -6.04 | 74 | 54.62 | 35.23 | 12.26 | 34.15 | 102 | 88 | P | H |
|                                                                  |                                                                                             | 5725.08 | 46.31  | -7.69 | 54 | 32.97 | 35.23 | 12.26 | 34.15 | 102 | 88 | A | H |
|                                                                  |                                                                                             |         |        |       |    |       |       |       |       |     |    |   | H |
|                                                                  |                                                                                             |         |        |       |    |       |       |       |       |     |    |   | H |
|                                                                  | *                                                                                           | 5700    | 110.41 | -     | -  | 97.14 | 35.21 | 12.18 | 34.12 | 270 | 77 | P | V |
|                                                                  | *                                                                                           | 5700    | 100.32 | -     | -  | 87.05 | 35.21 | 12.18 | 34.12 | 270 | 77 | A | V |
|                                                                  |                                                                                             | 5726.44 | 73.43  | -0.57 | 74 | 60.09 | 35.23 | 12.26 | 34.15 | 270 | 77 | P | V |
|                                                                  |                                                                                             | 5725.08 | 50.53  | -3.47 | 54 | 37.19 | 35.23 | 12.26 | 34.15 | 270 | 77 | 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) (with PMA wireless charger)

| 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+2                                  |                                                                                             | ( 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     | 43.28      | -30.72 | 74         | 47.54    | 37.9     | 16.94  | 59.1   | 100    | 0       | P       | H       |
|                                      |                                                                                             | 16500     | 47.65      | -26.35 | 74         | 42.17    | 41.4     | 20.88  | 56.8   | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11000     | 44.02      | -29.98 | 74         | 48.28    | 37.9     | 16.94  | 59.1   | 100    | 0       | P       | V       |
|                                      |                                                                                             | 16500     | 48.15      | -25.85 | 74         | 42.67    | 41.4     | 20.88  | 56.8   | 100    | 0       | P       | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |                                                                                             | 11160     | 43.63      | -30.37 | 74         | 47.22    | 38       | 17.08  | 58.67  | 100    | 0       | P       | H       |
|                                      |                                                                                             | 16740     | 48.62      | -25.38 | 74         | 42.31    | 41.88    | 21.04  | 56.61  | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11160     | 43.57      | -30.43 | 74         | 47.16    | 38       | 17.08  | 58.67  | 100    | 0       | P       | V       |
|                                      |                                                                                             | 16740     | 48.03      | -25.97 | 74         | 41.72    | 41.88    | 21.04  | 56.61  | 100    | 0       | P       | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |                                                                                             | 11400     | 45.68      | -28.32 | 74         | 48.29    | 38.14    | 17.31  | 58.06  | 100    | 0       | P       | H       |
|                                      |                                                                                             | 17100     | 49.76      | -24.24 | 74         | 42.63    | 42.32    | 21.27  | 56.46  | 100    | 0       | P       | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |                                                                                             | 11400     | 46.12      | -27.88 | 74         | 48.73    | 38.14    | 17.31  | 58.06  | 100    | 0       | P       | V       |
|                                      |                                                                                             | 17100     | 49.45      | -24.55 | 74         | 42.32    | 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) (with PMA wireless charger)

| 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+2                                  |      | ( 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 |      | 5464.24   | 66.77      | -7.23  | 74         | 53.43    | 35.05    | 11.86  | 33.57  | 294    | 196     | P       | H       |
|                                      |      | 5470      | 49.11      | -4.89  | 54         | 35.77    | 35.05    | 11.86  | 33.57  | 294    | 196     | A       | H       |
|                                      | *    | 5510      | 98.84      | -      | -          | 85.56    | 35.1     | 11.92  | 33.74  | 294    | 196     | P       | H       |
|                                      | *    | 5510      | 89.27      | -      | -          | 75.99    | 35.1     | 11.92  | 33.74  | 294    | 196     | A       | H       |
|                                      |      | 5755.72   | 57.68      | -16.32 | 74         | 44.26    | 35.26    | 12.33  | 34.17  | 294    | 196     | P       | H       |
|                                      |      | 5764.44   | 44.61      | -9.39  | 54         | 31.22    | 35.26    | 12.33  | 34.2   | 294    | 196     | A       | H       |
|                                      |      | 5467.12   | 69.31      | -4.69  | 74         | 55.97    | 35.05    | 11.86  | 33.57  | 266    | 288     | P       | V       |
|                                      |      | 5469.84   | 53.47      | -0.53  | 54         | 40.13    | 35.05    | 11.86  | 33.57  | 266    | 288     | A       | V       |
|                                      | *    | 5510      | 103.36     | -      | -          | 90.08    | 35.1     | 11.92  | 33.74  | 266    | 288     | P       | V       |
|                                      | *    | 5510      | 94.5       | -      | -          | 81.22    | 35.1     | 11.92  | 33.74  | 266    | 288     | A       | V       |
|                                      |      | 5747.32   | 57.44      | -16.56 | 74         | 44.04    | 35.24    | 12.33  | 34.17  | 266    | 288     | P       | V       |
|                                      |      | 5755      | 44.72      | -9.28  | 54         | 31.3     | 35.26    | 12.33  | 34.17  | 266    | 288     | A       | V       |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |      | 5469.2    | 60.34      | -13.66 | 74         | 47       | 35.05    | 11.86  | 33.57  | 284    | 198     | P       | H       |
|                                      |      | 5358      | 45.02      | -8.98  | 54         | 31.6     | 34.89    | 11.71  | 33.18  | 284    | 198     | A       | H       |
|                                      | *    | 5550      | 101.27     | -      | -          | 87.99    | 35.13    | 11.98  | 33.83  | 284    | 198     | P       | H       |
|                                      | *    | 5550      | 90.73      | -      | -          | 77.45    | 35.13    | 11.98  | 33.83  | 284    | 198     | A       | H       |
|                                      |      | 5725.16   | 57.61      | -16.39 | 74         | 44.27    | 35.23    | 12.26  | 34.15  | 284    | 198     | P       | H       |
|                                      |      | 5732.76   | 44.66      | -9.34  | 54         | 31.34    | 35.23    | 12.26  | 34.17  | 284    | 198     | A       | H       |
|                                      |      | 5466.96   | 61.96      | -12.04 | 74         | 48.62    | 35.05    | 11.86  | 33.57  | 229    | 282     | P       | V       |
|                                      |      | 5386      | 44.9       | -9.1   | 54         | 31.5     | 34.94    | 11.74  | 33.28  | 229    | 282     | A       | V       |
|                                      | *    | 5550      | 105.38     | -      | -          | 92.1     | 35.13    | 11.98  | 33.83  | 229    | 282     | P       | V       |
|                                      | *    | 5550      | 95.46      | -      | -          | 82.18    | 35.13    | 11.98  | 33.83  | 229    | 282     | A       | V       |
|                                      |      | 5753      | 58.92      | -15.08 | 74         | 45.5     | 35.26    | 12.33  | 34.17  | 229    | 282     | P       | V       |
|                                      |      | 5739.32   | 44.93      | -9.07  | 54         | 31.6     | 35.24    | 12.26  | 34.17  | 229    | 282     | A       | V       |



|                                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT40</b><br><b>CH 134</b><br><b>5670MHz</b> |                                                                                             | 5381.04 | 58.12  | -15.88 | 74 | 44.72 | 34.94 | 11.74 | 33.28 | 236 | 221 | P | H |
|                                                                  |                                                                                             | 5374    | 44.99  | -9.01  | 54 | 31.65 | 34.91 | 11.71 | 33.28 | 236 | 221 | A | H |
|                                                                  | *                                                                                           | 5670    | 102.52 | -      | -  | 89.23 | 35.2  | 12.18 | 34.09 | 236 | 221 | P | H |
|                                                                  | *                                                                                           | 5670    | 92.1   | -      | -  | 78.81 | 35.2  | 12.18 | 34.09 | 236 | 221 | A | H |
|                                                                  |                                                                                             | 5729.72 | 65.95  | -8.05  | 74 | 52.61 | 35.23 | 12.26 | 34.15 | 236 | 221 | P | H |
|                                                                  |                                                                                             | 5725.56 | 47.44  | -6.56  | 54 | 34.1  | 35.23 | 12.26 | 34.15 | 236 | 221 | A | H |
|                                                                  |                                                                                             | 5440.4  | 58.31  | -15.69 | 74 | 44.98 | 35.01 | 11.8  | 33.48 | 263 | 282 | P | V |
|                                                                  |                                                                                             | 5368.4  | 45.2   | -8.8   | 54 | 31.76 | 34.91 | 11.71 | 33.18 | 263 | 282 | A | V |
|                                                                  | *                                                                                           | 5670    | 105.52 | -      | -  | 92.23 | 35.2  | 12.18 | 34.09 | 263 | 282 | P | V |
|                                                                  | *                                                                                           | 5670    | 95.07  | -      | -  | 81.78 | 35.2  | 12.18 | 34.09 | 263 | 282 | A | V |
|                                                                  |                                                                                             | 5729.08 | 65.83  | -8.17  | 74 | 52.49 | 35.23 | 12.26 | 34.15 | 263 | 282 | P | V |
|                                                                  |                                                                                             | 5726.12 | 47.01  | -6.99  | 54 | 33.67 | 35.23 | 12.26 | 34.15 | 263 | 282 | 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) (with PMA wireless charger)

| 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+2                                  |                                                                                             | ( 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     | 44.13      | -29.87 | 74         | 48.34    | 37.91    | 16.94  | 59.06  | 100    | 0       | P     | H     |
|                                      |                                                                                             | 16530     | 47.23      | -26.77 | 74         | 41.62    | 41.47    | 20.91  | 56.77  | 100    | 0       | P     | H     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                                                             | 11020     | 44.08      | -29.92 | 74         | 48.29    | 37.91    | 16.94  | 59.06  | 100    | 0       | P     | V     |
|                                      |                                                                                             | 16530     | 47.38      | -26.62 | 74         | 41.77    | 41.47    | 20.91  | 56.77  | 100    | 0       | P     | V     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | V     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | V     |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |                                                                                             | 11100     | 43.84      | -30.16 | 74         | 47.71    | 37.96    | 17.01  | 58.84  | 100    | 0       | P     | H     |
|                                      |                                                                                             | 16650     | 48.69      | -25.31 | 74         | 42.67    | 41.71    | 20.99  | 56.68  | 100    | 0       | P     | H     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                                                             | 11100     | 43.12      | -30.88 | 74         | 46.99    | 37.96    | 17.01  | 58.84  | 100    | 0       | P     | V     |
|                                      |                                                                                             | 16650     | 47.98      | -26.02 | 74         | 41.96    | 41.71    | 20.99  | 56.68  | 100    | 0       | P     | V     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | V     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | V     |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |                                                                                             | 11340     | 45.16      | -28.84 | 74         | 48.06    | 38.1     | 17.23  | 58.23  | 100    | 0       | P     | H     |
|                                      |                                                                                             | 17010     | 50         | -24    | 74         | 42.8     | 42.39    | 21.22  | 56.41  | 100    | 0       | P     | H     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                                                             | 11340     | 46.17      | -27.83 | 74         | 49.07    | 38.1     | 17.23  | 58.23  | 100    | 0       | P     | V     |
|                                      |                                                                                             | 17010     | 49.9       | -24.1  | 74         | 42.7     | 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 VHT20 (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                                    |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT20<br>CH 100<br>5500MHz |      | 5461.2    | 66.36      | -7.64  | 74         | 53.04    | 35.03    | 11.86  | 33.57  | 300    | 194     | P       | H       |
|                                        |      | 5470      | 45.53      | -8.47  | 54         | 32.19    | 35.05    | 11.86  | 33.57  | 300    | 194     | A       | H       |
|                                        | *    | 5499      | 105.02     | -      | -          | 91.72    | 35.1     | 11.86  | 33.66  | 300    | 194     | P       | H       |
|                                        | *    | 5499      | 95.46      | -      | -          | 82.16    | 35.1     | 11.86  | 33.66  | 300    | 194     | A       | H       |
|                                        |      | 5729.32   | 57.22      | -16.78 | 74         | 43.88    | 35.23    | 12.26  | 34.15  | 300    | 194     | P       | H       |
|                                        |      | 5749.96   | 43.99      | -10.01 | 54         | 30.59    | 35.24    | 12.33  | 34.17  | 300    | 194     | A       | H       |
|                                        |      | 5464.24   | 69.55      | -4.45  | 74         | 56.21    | 35.05    | 11.86  | 33.57  | 263    | 288     | P       | V       |
|                                        |      | 5469.68   | 48.06      | -5.94  | 54         | 34.72    | 35.05    | 11.86  | 33.57  | 263    | 288     | A       | V       |
|                                        | *    | 5500      | 110.26     | -      | -          | 96.96    | 35.1     | 11.86  | 33.66  | 263    | 288     | P       | V       |
|                                        | *    | 5500      | 100.38     | -      | -          | 87.08    | 35.1     | 11.86  | 33.66  | 263    | 288     | A       | V       |
|                                        |      | 5760.6    | 57.05      | -16.95 | 74         | 43.66    | 35.26    | 12.33  | 34.2   | 263    | 288     | P       | V       |
| 802.11ac<br>VHT20<br>CH 116<br>5580MHz |      | 5735.96   | 44.02      | -9.98  | 54         | 30.69    | 35.24    | 12.26  | 34.17  | 263    | 288     | A       | V       |
|                                        |      | 5380.88   | 57.4       | -16.6  | 74         | 44       | 34.94    | 11.74  | 33.28  | 300    | 223     | P       | H       |
|                                        |      | 5369.2    | 44.13      | -9.87  | 54         | 30.69    | 34.91    | 11.71  | 33.18  | 300    | 223     | A       | H       |
|                                        | *    | 5580      | 104.68     | -      | -          | 91.57    | 35.14    | 11.98  | 34.01  | 300    | 223     | P       | H       |
|                                        | *    | 5580      | 95.34      | -      | -          | 82.23    | 35.14    | 11.98  | 34.01  | 300    | 223     | A       | H       |
|                                        |      | 5738.92   | 57.54      | -16.46 | 74         | 44.21    | 35.24    | 12.26  | 34.17  | 300    | 223     | P       | H       |
|                                        |      | 5765      | 44.05      | -9.95  | 54         | 30.66    | 35.26    | 12.33  | 34.2   | 300    | 223     | A       | H       |
|                                        |      | 5392.24   | 57.67      | -16.33 | 74         | 44.27    | 34.94    | 11.74  | 33.28  | 263    | 275     | P       | V       |
|                                        |      | 5386.32   | 44.34      | -9.66  | 54         | 30.94    | 34.94    | 11.74  | 33.28  | 263    | 275     | A       | V       |
|                                        | *    | 5582      | 110.5      | -      | -          | 97.32    | 35.15    | 12.04  | 34.01  | 263    | 275     | P       | V       |
|                                        | *    | 5582      | 100.15     | -      | -          | 86.97    | 35.15    | 12.04  | 34.01  | 263    | 275     | A       | V       |
|                                        |      | 5751.96   | 57.43      | -16.57 | 74         | 44.01    | 35.26    | 12.33  | 34.17  | 263    | 275     | P       | V       |
|                                        |      | 5753.64   | 43.99      | -10.01 | 54         | 30.57    | 35.26    | 12.33  | 34.17  | 263    | 275     | A       | V       |



|                                                                    |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 140</b><br><b>5700MHz</b> |                                                                                             | 5375.76 | 57.32  | -16.68 | 74 | 43.98 | 34.91 | 11.71 | 33.28 | 249 | 223 | P | H |
|                                                                    |                                                                                             | 5391.76 | 44.19  | -9.81  | 54 | 30.79 | 34.94 | 11.74 | 33.28 | 249 | 223 | A | H |
|                                                                    | *                                                                                           | 5700    | 107.02 | -      | -  | 93.75 | 35.21 | 12.18 | 34.12 | 249 | 223 | P | H |
|                                                                    | *                                                                                           | 5700    | 96.45  | -      | -  | 83.18 | 35.21 | 12.18 | 34.12 | 249 | 223 | A | H |
|                                                                    |                                                                                             | 5726.04 | 71.35  | -2.65  | 74 | 58.01 | 35.23 | 12.26 | 34.15 | 249 | 223 | P | H |
|                                                                    |                                                                                             | 5725    | 48.71  | -5.29  | 54 | 35.37 | 35.23 | 12.26 | 34.15 | 249 | 223 | A | H |
|                                                                    |                                                                                             | 5408.24 | 57.63  | -16.37 | 74 | 44.32 | 34.96 | 11.74 | 33.39 | 218 | 292 | P | V |
|                                                                    |                                                                                             | 5414.32 | 44.16  | -9.84  | 54 | 30.83 | 34.98 | 11.74 | 33.39 | 218 | 292 | A | V |
|                                                                    | *                                                                                           | 5698    | 109.51 | -      | -  | 96.24 | 35.21 | 12.18 | 34.12 | 218 | 292 | P | V |
|                                                                    | *                                                                                           | 5698    | 99.62  | -      | -  | 86.35 | 35.21 | 12.18 | 34.12 | 218 | 292 | A | V |
|                                                                    |                                                                                             | 5726.84 | 72.96  | -1.04  | 74 | 59.62 | 35.23 | 12.26 | 34.15 | 218 | 292 | P | V |
|                                                                    |                                                                                             | 5725.08 | 52.4   | -1.6   | 54 | 39.06 | 35.23 | 12.26 | 34.15 | 218 | 292 | 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 802.11ac VHT20 (Harmonic @ 3m) (with PMA wireless charger)

| 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+2                                    |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT20<br>CH 100<br>5500MHz |                                                                                             | 11000     | 46.09      | -27.91 | 74         | 50.35    | 37.9     | 16.94  | 59.1   | 100    | 0       | P       | H       |
|                                        |                                                                                             | 16500     | 47.86      | -26.14 | 74         | 42.38    | 41.4     | 20.88  | 56.8   | 100    | 0       | P       | H       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |                                                                                             | 11000     | 45.23      | -28.77 | 74         | 49.49    | 37.9     | 16.94  | 59.1   | 100    | 0       | P       | V       |
|                                        |                                                                                             | 16500     | 47.93      | -26.07 | 74         | 42.45    | 41.4     | 20.88  | 56.8   | 100    | 0       | P       | V       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11ac<br>VHT20<br>CH 116<br>5580MHz |                                                                                             | 11160     | 44.1       | -29.9  | 74         | 47.69    | 38       | 17.08  | 58.67  | 100    | 0       | P       | H       |
|                                        |                                                                                             | 16740     | 48.66      | -25.34 | 74         | 42.35    | 41.88    | 21.04  | 56.61  | 100    | 0       | P       | H       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |                                                                                             | 11160     | 43.51      | -30.49 | 74         | 47.1     | 38       | 17.08  | 58.67  | 100    | 0       | P       | V       |
|                                        |                                                                                             | 16740     | 48.97      | -25.03 | 74         | 42.66    | 41.88    | 21.04  | 56.61  | 100    | 0       | P       | V       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11ac<br>VHT20<br>CH 140<br>5700MHz |                                                                                             | 11400     | 44.17      | -29.83 | 74         | 46.78    | 38.14    | 17.31  | 58.06  | 100    | 0       | P       | H       |
|                                        |                                                                                             | 17100     | 49.57      | -24.43 | 74         | 42.44    | 42.32    | 21.27  | 56.46  | 100    | 0       | P       | H       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |                                                                                             | 11400     | 44.54      | -29.46 | 74         | 47.15    | 38.14    | 17.31  | 58.06  | 100    | 0       | P       | V       |
|                                        |                                                                                             | 17100     | 49.49      | -24.51 | 74         | 42.36    | 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 802.11ac VHT40 (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                                    |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT40<br>CH 102<br>5510MHz |      | 5470      | 67.34      | -6.66  | 74         | 54       | 35.05    | 11.86  | 33.57  | 269    | 60      | P       | H       |
|                                        |      | 5470      | 49.54      | -4.46  | 54         | 36.2     | 35.05    | 11.86  | 33.57  | 269    | 60      | A       | H       |
|                                        | *    | 5510      | 100.64     | -      | -          | 87.36    | 35.1     | 11.92  | 33.74  | 269    | 60      | P       | H       |
|                                        | *    | 5510      | 90.37      | -      | -          | 77.09    | 35.1     | 11.92  | 33.74  | 269    | 60      | A       | H       |
|                                        |      | 5761.56   | 56.81      | -17.19 | 74         | 43.42    | 35.26    | 12.33  | 34.2   | 269    | 60      | P       | H       |
|                                        |      | 5754.84   | 44.55      | -9.45  | 54         | 31.13    | 35.26    | 12.33  | 34.17  | 269    | 60      | A       | H       |
|                                        |      | 5462.96   | 67.33      | -6.67  | 74         | 53.99    | 35.05    | 11.86  | 33.57  | 309    | 100     | P       | V       |
|                                        |      | 5470      | 52.55      | -1.45  | 54         | 39.21    | 35.05    | 11.86  | 33.57  | 309    | 100     | A       | V       |
|                                        | *    | 5510      | 104.92     | -      | -          | 91.64    | 35.1     | 11.92  | 33.74  | 309    | 100     | P       | V       |
|                                        | *    | 5510      | 94.81      | -      | -          | 81.53    | 35.1     | 11.92  | 33.74  | 309    | 100     | A       | V       |
|                                        |      | 5733.24   | 57.72      | -16.28 | 74         | 44.4     | 35.23    | 12.26  | 34.17  | 309    | 100     | P       | V       |
| 802.11ac<br>VHT40<br>CH 110<br>5550MHz |      | 5762.28   | 44.41      | -9.59  | 54         | 31.02    | 35.26    | 12.33  | 34.2   | 309    | 100     | A       | V       |
|                                        |      | 5469.2    | 59.6       | -14.4  | 74         | 46.26    | 35.05    | 11.86  | 33.57  | 239    | 58      | P       | H       |
|                                        |      | 5412.72   | 44.69      | -9.31  | 54         | 31.36    | 34.98    | 11.74  | 33.39  | 239    | 58      | A       | H       |
|                                        | *    | 5550      | 102.55     | -      | -          | 89.27    | 35.13    | 11.98  | 33.83  | 239    | 58      | P       | H       |
|                                        | *    | 5550      | 92.5       | -      | -          | 79.22    | 35.13    | 11.98  | 33.83  | 239    | 58      | A       | H       |
|                                        |      | 5759.08   | 57.36      | -16.64 | 74         | 43.97    | 35.26    | 12.33  | 34.2   | 239    | 58      | P       | H       |
|                                        |      | 5725.08   | 44.42      | -9.58  | 54         | 31.08    | 35.23    | 12.26  | 34.15  | 239    | 58      | A       | H       |
|                                        |      | 5445.04   | 63.06      | -10.94 | 74         | 49.73    | 35.01    | 11.8   | 33.48  | 274    | 77      | P       | V       |
|                                        |      | 5394.8    | 44.77      | -9.23  | 54         | 31.35    | 34.96    | 11.74  | 33.28  | 274    | 77      | A       | V       |
|                                        | *    | 5550      | 106.94     | -      | -          | 93.66    | 35.13    | 11.98  | 33.83  | 274    | 77      | P       | V       |
|                                        | *    | 5550      | 96.66      | -      | -          | 83.38    | 35.13    | 11.98  | 33.83  | 274    | 77      | A       | V       |
|                                        |      | 5728.2    | 58.22      | -15.78 | 74         | 44.88    | 35.23    | 12.26  | 34.15  | 274    | 77      | P       | V       |
|                                        |      | 5732.52   | 44.51      | -9.49  | 54         | 31.19    | 35.23    | 12.26  | 34.17  | 274    | 77      | A       | V       |



|                                                                    |                                                                                             |         |        |        |    |       |       |       |       |     |    |   |   |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|----|---|---|
| <b>802.11ac</b><br><b>VHT40</b><br><b>CH 134</b><br><b>5670MHz</b> |                                                                                             | 5385.52 | 57.43  | -16.57 | 74 | 44.03 | 34.94 | 11.74 | 33.28 | 254 | 59 | P | H |
|                                                                    |                                                                                             | 5392.72 | 44.68  | -9.32  | 54 | 31.28 | 34.94 | 11.74 | 33.28 | 254 | 59 | A | H |
|                                                                    | *                                                                                           | 5670    | 102.36 | -      | -  | 89.07 | 35.2  | 12.18 | 34.09 | 254 | 59 | P | H |
|                                                                    | *                                                                                           | 5670    | 92.2   | -      | -  | 78.91 | 35.2  | 12.18 | 34.09 | 254 | 59 | A | H |
|                                                                    |                                                                                             | 5726.36 | 62.49  | -11.51 | 74 | 49.15 | 35.23 | 12.26 | 34.15 | 254 | 59 | P | H |
|                                                                    |                                                                                             | 5725.64 | 46.36  | -7.64  | 54 | 33.02 | 35.23 | 12.26 | 34.15 | 254 | 59 | A | H |
|                                                                    |                                                                                             | 5462    | 59.5   | -14.5  | 74 | 46.18 | 35.03 | 11.86 | 33.57 | 276 | 77 | P | V |
|                                                                    |                                                                                             | 5394.48 | 44.66  | -9.34  | 54 | 31.26 | 34.94 | 11.74 | 33.28 | 276 | 77 | A | V |
|                                                                    | *                                                                                           | 5670    | 107.65 | -      | -  | 94.36 | 35.2  | 12.18 | 34.09 | 276 | 77 | P | V |
|                                                                    | *                                                                                           | 5670    | 97.5   | -      | -  | 84.21 | 35.2  | 12.18 | 34.09 | 276 | 77 | A | V |
|                                                                    |                                                                                             | 5725.96 | 66.48  | -7.52  | 74 | 53.14 | 35.23 | 12.26 | 34.15 | 276 | 77 | P | V |
|                                                                    |                                                                                             | 5725.08 | 49.86  | -4.14  | 54 | 36.52 | 35.23 | 12.26 | 34.15 | 276 | 77 | 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 802.11ac VHT40 (Harmonic @ 3m) (with PMA wireless charger)

| 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+2                                    |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac<br>VHT40<br>CH 102<br>5510MHz |                                                                                             | 11020     | 44.78      | -29.22 | 74         | 48.99    | 37.91    | 16.94  | 59.06  | 100    | 0       | P     | H     |
|                                        |                                                                                             | 16530     | 47.02      | -26.98 | 74         | 41.41    | 41.47    | 20.91  | 56.77  | 100    | 0       | P     | H     |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                        |                                                                                             | 11020     | 45.82      | -28.18 | 74         | 50.03    | 37.91    | 16.94  | 59.06  | 100    | 0       | P     | V     |
|                                        |                                                                                             | 16530     | 47.18      | -26.82 | 74         | 41.57    | 41.47    | 20.91  | 56.77  | 100    | 0       | P     | V     |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | V     |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | V     |
| 802.11ac<br>VHT40<br>CH 110<br>5550MHz |                                                                                             | 11100     | 44.96      | -29.04 | 74         | 48.83    | 37.96    | 17.01  | 58.84  | 100    | 0       | P     | H     |
|                                        |                                                                                             | 16650     | 48.28      | -25.72 | 74         | 42.26    | 41.71    | 20.99  | 56.68  | 100    | 0       | P     | H     |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                        |                                                                                             | 11100     | 45.62      | -28.38 | 74         | 49.49    | 37.96    | 17.01  | 58.84  | 100    | 0       | P     | V     |
|                                        |                                                                                             | 16650     | 48.05      | -25.95 | 74         | 42.03    | 41.71    | 20.99  | 56.68  | 100    | 0       | P     | V     |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | V     |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | V     |
| 802.11ac<br>VHT40<br>CH 134<br>5670MHz |                                                                                             | 11340     | 44.71      | -29.29 | 74         | 47.61    | 38.1     | 17.23  | 58.23  | 100    | 0       | P     | H     |
|                                        |                                                                                             | 17010     | 49.38      | -24.62 | 74         | 42.18    | 42.39    | 21.22  | 56.41  | 100    | 0       | P     | H     |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                        |                                                                                             | 11340     | 44.82      | -29.18 | 74         | 47.72    | 38.1     | 17.23  | 58.23  | 100    | 0       | P     | V     |
|                                        |                                                                                             | 17010     | 49.61      | -24.39 | 74         | 42.41    | 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) (with PMA wireless charger)

| 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+2                                    |                                                                                             | ( 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   | 60.93      | -13.07 | 74         | 47.59  | 35.05    | 11.86  | 33.57  | 100    | 121     | P     | H     |
|                                        |                                                                                             | 5464.56   | 46.44      | -7.56  | 54         | 33.1   | 35.05    | 11.86  | 33.57  | 100    | 121     | A     | H     |
|                                        | *                                                                                           | 5530      | 95.46      | -      | -          | 82.26  | 35.11    | 11.92  | 33.83  | 100    | 121     | P     | H     |
|                                        | *                                                                                           | 5530      | 86.28      | -      | -          | 73.08  | 35.11    | 11.92  | 33.83  | 100    | 121     | A     | H     |
|                                        |                                                                                             | 5758.92   | 57.47      | -16.53 | 74         | 44.08  | 35.26    | 12.33  | 34.2   | 100    | 121     | P     | H     |
|                                        |                                                                                             | 5751.56   | 45.04      | -8.96  | 54         | 31.62  | 35.26    | 12.33  | 34.17  | 100    | 121     | A     | H     |
|                                        |                                                                                             | 5462      | 64.11      | -9.89  | 74         | 50.79  | 35.03    | 11.86  | 33.57  | 265    | 288     | P     | V     |
|                                        |                                                                                             | 5468.72   | 50.8       | -3.2   | 54         | 37.46  | 35.05    | 11.86  | 33.57  | 265    | 288     | A     | V     |
|                                        | *                                                                                           | 5530      | 100.27     | -      | -          | 87.07  | 35.11    | 11.92  | 33.83  | 265    | 288     | P     | V     |
|                                        | *                                                                                           | 5530      | 90.82      | -      | -          | 77.62  | 35.11    | 11.92  | 33.83  | 265    | 288     | A     | V     |
|                                        |                                                                                             | 5740.44   | 57.51      | -16.49 | 74         | 44.11  | 35.24    | 12.33  | 34.17  | 265    | 288     | P     | V     |
|                                        |                                                                                             | 5739.88   | 44.92      | -9.08  | 54         | 31.59  | 35.24    | 12.26  | 34.17  | 265    | 288     | A     | V     |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 5404.88   | 57.64      | -16.36 | 74         | 44.33  | 34.96    | 11.74  | 33.39  | 100    | 120     | P     | H     |
|                                        |                                                                                             | 5398.8    | 45.08      | -8.92  | 54         | 31.77  | 34.96    | 11.74  | 33.39  | 100    | 120     | A     | H     |
|                                        | *                                                                                           | 5609      | 98.08      | -      | -          | 84.92  | 35.16    | 12.04  | 34.04  | 100    | 120     | P     | H     |
|                                        | *                                                                                           | 5609      | 88.69      | -      | -          | 75.53  | 35.16    | 12.04  | 34.04  | 100    | 120     | A     | H     |
|                                        |                                                                                             | 5727.24   | 58.06      | -15.94 | 74         | 44.72  | 35.23    | 12.26  | 34.15  | 100    | 120     | P     | H     |
|                                        |                                                                                             | 5729.16   | 45.75      | -8.25  | 54         | 32.41  | 35.23    | 12.26  | 34.15  | 100    | 120     | A     | H     |
|                                        |                                                                                             | 5410.8    | 58.6       | -15.4  | 74         | 45.29  | 34.96    | 11.74  | 33.39  | 270    | 275     | P     | V     |
|                                        |                                                                                             | 5382.8    | 45.23      | -8.77  | 54         | 31.83  | 34.94    | 11.74  | 33.28  | 270    | 275     | A     | V     |
|                                        | *                                                                                           | 5610      | 101.82     | -      | -          | 88.66  | 35.16    | 12.04  | 34.04  | 270    | 275     | P     | V     |
|                                        | *                                                                                           | 5610      | 92.66      | -      | -          | 79.5   | 35.16    | 12.04  | 34.04  | 270    | 275     | A     | V     |
|                                        |                                                                                             | 5761.24   | 57.6       | -16.4  | 74         | 44.21  | 35.26    | 12.33  | 34.2   | 270    | 275     | P     | V     |
|                                        |                                                                                             | 5754.44   | 45.01      | -8.99  | 54         | 31.59  | 35.26    | 12.33  | 34.17  | 270    | 275     | 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) (with PMA wireless charger)

| 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+2                                    |                                                                                             | ( 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     | 43.57      | -30.43 | 74         | 47.59    | 37.94    | 16.97  | 58.93  | 100    | 0       | P       | H       |
|                                        |                                                                                             | 16590     | 48.07      | -25.93 | 74         | 42.27    | 41.57    | 20.96  | 56.73  | 100    | 0       | P       | H       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |                                                                                             | 11060     | 43.34      | -30.66 | 74         | 47.36    | 37.94    | 16.97  | 58.93  | 100    | 0       | P       | V       |
|                                        |                                                                                             | 16590     | 47.21      | -26.79 | 74         | 41.41    | 41.57    | 20.96  | 56.73  | 100    | 0       | P       | V       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 11220     | 43.83      | -30.17 | 74         | 47.22    | 38.03    | 17.12  | 58.54  | 100    | 0       | P       | H       |
|                                        |                                                                                             | 16830     | 50.35      | -23.65 | 74         | 43.71    | 42.06    | 21.12  | 56.54  | 100    | 0       | P       | H       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |                                                                                             | 11220     | 44.92      | -29.08 | 74         | 48.31    | 38.03    | 17.12  | 58.54  | 100    | 0       | P       | V       |
|                                        |                                                                                             | 16830     | 49.97      | -24.03 | 74         | 43.33    | 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) (with PMA wireless charger)

| 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+2                          |                                                              | ( 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      | 107.52     | -      | -          | 94.18  | 35.23    | 12.26  | 34.15  | 100    | 264     | P     | H     |
|                              | *                                                            | 5720      | 98.47      | -      | -          | 85.13  | 35.23    | 12.26  | 34.15  | 100    | 264     | A     | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              | *                                                            | 5722      | 111.76     | -      | -          | 98.42  | 35.23    | 12.26  | 34.15  | 205    | 292     | P     | V     |
|                              | *                                                            | 5722      | 101.54     | -      | -          | 88.2   | 35.23    | 12.26  | 34.15  | 205    | 292     | A     | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                       | 1. No other spurious found.                                  |           |            |        |            |        |          |        |        |        |         |       |       |
|                              | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |


**15E band 3 - Straddle Channel**
**WIFI 802.11a (Harmonic @ 3m) (with PMA wireless charger)**

| 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+2                          |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a<br>CH 144<br>5720MHz |                                                                                             | 11439     | 46.39      | -27.61 | 74         | 48.85  | 38.16    | 17.35  | 57.97  | 100    | 0       | P     | H     |
|                              |                                                                                             | 17160     | 49.81      | -24.19 | 74         | 42.72  | 42.27    | 21.32  | 56.5   | 100    | 0       | P     | H     |
|                              |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                                                             | 11439     | 48.16      | -25.84 | 74         | 50.62  | 38.16    | 17.35  | 57.97  | 100    | 0       | P     | V     |
|                              |                                                                                             | 17160     | 49.37      | -24.63 | 74         | 42.28  | 42.27    | 21.32  | 56.5   | 100    | 0       | P     | V     |
|                              |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## 15E band 3 - Straddle Channel

## WIFI 802.11n HT20 (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                                  |                                                              | ( 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      | 105.61     | -      | -          | 92.27  | 35.23    | 12.26  | 34.15  | 100    | 264     | P     | H     |
|                                      | *                                                            | 5720      | 94.48      | -      | -          | 81.14  | 35.23    | 12.26  | 34.15  | 100    | 264     | A     | H     |
|                                      |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      | *                                                            | 5720      | 108.24     | -      | -          | 94.9   | 35.23    | 12.26  | 34.15  | 205    | 292     | P     | V     |
|                                      | *                                                            | 5720      | 97.91      | -      | -          | 84.57  | 35.23    | 12.26  | 34.15  | 205    | 292     | A     | V     |
|                                      |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                      |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                      |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                      |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                      |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                      |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                               | 1. No other spurious found.                                  |           |            |        |            |        |          |        |        |        |         |       |       |
|                                      | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |


**15E band 3 - Straddle Channel**
**WIFI 802.11n HT20 (Harmonic @ 3m) (with PMA wireless charger)**

| 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+2                                  |                                                                                             | ( 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     | 43.95      | -30.05 | 74         | 46.41  | 38.16    | 17.35  | 57.97  | 100    | 0       | P     | H     |
|                                      |                                                                                             | 17160     | 50.02      | -23.98 | 74         | 42.93  | 42.27    | 21.32  | 56.5   | 100    | 0       | P     | H     |
|                                      |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |                                                                                             | 11440     | 42.83      | -31.17 | 74         | 45.29  | 38.16    | 17.35  | 57.97  | 100    | 0       | P     | V     |
|                                      |                                                                                             | 17160     | 49.98      | -24.02 | 74         | 42.89  | 42.27    | 21.32  | 56.5   | 100    | 0       | P     | V     |
|                                      |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                      |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## 15E band 3 - Straddle Channel

## WIFI 802.11n HT40 (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                                  |                                                              | ( 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      | 101.76     | -      | -          | 88.43    | 35.22    | 12.26  | 34.15  | 102    | 264     | P     | H     |
|                                      | *                                                            | 5710      | 91.11      | -      | -          | 77.78    | 35.22    | 12.26  | 34.15  | 102    | 264     | A     | H     |
|                                      |                                                              |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                              |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                              |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                              |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      | *                                                            | 5710      | 105.3      | -      | -          | 91.97    | 35.22    | 12.26  | 34.15  | 205    | 292     | P     | V     |
|                                      | *                                                            | 5710      | 94.16      | -      | -          | 80.83    | 35.22    | 12.26  | 34.15  | 205    | 292     | A     | V     |
|                                      |                                                              |           |            |        |            |          |          |        |        |        |         |       | V     |
|                                      |                                                              |           |            |        |            |          |          |        |        |        |         |       | V     |
|                                      |                                                              |           |            |        |            |          |          |        |        |        |         |       | V     |
|                                      |                                                              |           |            |        |            |          |          |        |        |        |         |       | V     |
| Remark                               | 1. No other spurious found.                                  |           |            |        |            |          |          |        |        |        |         |       |       |
|                                      | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |       |       |


**15E band 3 - Straddle Channel**
**WIFI 802.11n HT40 (Harmonic @ 3m) (with PMA wireless charger)**

| 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+2                                  |                                                                                             | ( 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     | 44.55      | -29.45 | 74         | 47.11    | 38.15    | 17.31  | 58.02  | 100    | 0       | P     | H     |
|                                      |                                                                                             | 17130     | 50.98      | -23.02 | 74         | 43.87    | 42.29    | 21.3   | 56.48  | 100    | 0       | P     | H     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                                                             | 11420     | 44.44      | -29.56 | 74         | 47       | 38.15    | 17.31  | 58.02  | 100    | 0       | P     | V     |
|                                      |                                                                                             | 17130     | 50.17      | -23.83 | 74         | 43.06    | 42.29    | 21.3   | 56.48  | 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 802.11ac VHT20 (Band Edge @ 3m) (with PMA wireless charger)**

| 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+2                                    |                                                              | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac<br>VHT20<br>CH 144<br>5720MHz | *                                                            | 5720      | 106.22     | -      | -          | 92.88  | 35.23    | 12.26  | 34.15  | 100    | 264     | P     | H     |
|                                        | *                                                            | 5720      | 96.97      | -      | -          | 83.63  | 35.23    | 12.26  | 34.15  | 100    | 264     | A     | H     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        | *                                                            | 5720      | 109.89     | -      | -          | 96.55  | 35.23    | 12.26  | 34.15  | 205    | 292     | P     | V     |
|                                        | *                                                            | 5720      | 100.47     | -      | -          | 87.13  | 35.23    | 12.26  | 34.15  | 205    | 292     | A     | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                                 | 1. No other spurious found.                                  |           |            |        |            |        |          |        |        |        |         |       |       |
|                                        | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |


**15E band 3 - Straddle Channel**
**WIFI 802.11ac VHT20 (Harmonic @ 3m) (with PMA wireless charger)**

| 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+2                                    |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac<br>VHT20<br>CH 144<br>5720MHz |                                                                                             | 11440     | 44.56      | -29.44 | 74         | 47.02  | 38.16    | 17.35  | 57.97  | 100    | 0       | P     | H     |
|                                        |                                                                                             | 17160     | 48.98      | -25.02 | 74         | 41.89  | 42.27    | 21.32  | 56.5   | 100    | 0       | P     | H     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                                                             | 11440     | 46.39      | -27.61 | 74         | 48.85  | 38.16    | 17.35  | 57.97  | 100    | 0       | P     | V     |
|                                        |                                                                                             | 17160     | 50.27      | -23.73 | 74         | 43.18  | 42.27    | 21.32  | 56.5   | 100    | 0       | P     | V     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## 15E band 3 - Straddle Channel

## WIFI 802.11ac VHT40 (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                                    |                                                              | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT40<br>CH 142<br>5710MHz | *                                                            | 5720      | 102.7      | -      | -          | 89.36    | 35.23    | 12.26  | 34.15  | 100    | 264     | P       | H       |
|                                        | *                                                            | 5720      | 93.46      | -      | -          | 80.12    | 35.23    | 12.26  | 34.15  | 100    | 264     | A       | H       |
|                                        |                                                              |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |                                                              |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |                                                              |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |                                                              |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        | *                                                            | 5720      | 106.37     | -      | -          | 93.03    | 35.23    | 12.26  | 34.15  | 205    | 292     | P       | V       |
|                                        | *                                                            | 5720      | 96.4       | -      | -          | 83.06    | 35.23    | 12.26  | 34.15  | 205    | 292     | A       | V       |
|                                        |                                                              |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                        |                                                              |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                        |                                                              |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                        |                                                              |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                                 | 1. No other spurious found.                                  |           |            |        |            |          |          |        |        |        |         |         |         |
|                                        | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 15E band 3 - Straddle Channel

## WIFI 802.11ac VHT40 (Harmonic @ 3m) (with PMA wireless charger)

| 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+2                                    |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac<br>VHT40<br>CH 142<br>5710MHz |                                                                                             | 11420     | 44.56      | -29.44 | 74         | 47.12    | 38.15    | 17.31  | 58.02  | 100    | 0       | P     | H     |
|                                        |                                                                                             | 17130     | 50.38      | -23.62 | 74         | 43.27    | 42.29    | 21.3   | 56.48  | 100    | 0       | P     | H     |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                        |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                        |                                                                                             | 11420     | 45.11      | -28.89 | 74         | 47.67    | 38.15    | 17.31  | 58.02  | 100    | 0       | P     | V     |
|                                        |                                                                                             | 17130     | 50.56      | -23.44 | 74         | 43.45    | 42.29    | 21.3   | 56.48  | 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 802.11ac VHT80 (Band Edge @ 3m) (with PMA wireless charger)

| 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+2                                    |                                                              | ( 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      | 98.4       | -      | -          | 85.13  | 35.21    | 12.18  | 34.12  | 100    | 264     | P     | H     |
|                                        | *                                                            | 5690      | 88.16      | -      | -          | 74.89  | 35.21    | 12.18  | 34.12  | 100    | 264     | A     | H     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        | *                                                            | 5690      | 101.18     | -      | -          | 87.91  | 35.21    | 12.18  | 34.12  | 205    | 297     | P     | V     |
|                                        | *                                                            | 5690      | 91.88      | -      | -          | 78.61  | 35.21    | 12.18  | 34.12  | 205    | 297     | A     | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                                 | 1. No other spurious found.                                  |           |            |        |            |        |          |        |        |        |         |       |       |
|                                        | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |


**15E band 3 - Straddle Channel**
**WIFI 802.11ac VHT80 (Harmonic @ 3m) (with PMA wireless charger)**

| 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+2                                    |                                                                                             | ( 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     | 45.12      | -28.88 | 74         | 47.82  | 38.13    | 17.27  | 58.1   | 100    | 0       | P     | H     |
|                                        |                                                                                             | 17070     | 49.41      | -24.59 | 74         | 42.23  | 42.35    | 21.27  | 56.44  | 100    | 0       | P     | H     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                                                             |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                                                             | 11380     | 44.73      | -29.27 | 74         | 47.43  | 38.13    | 17.27  | 58.1   | 100    | 0       | P     | V     |
|                                        |                                                                                             | 17070     | 49.98      | -24.02 | 74         | 42.8   | 42.35    | 21.27  | 56.44  | 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 Emission below 1GHz

**WIFI 802.11n HT40 (LF @ 3m) (with PMA wireless charger)**

[illegible]



## 15E band 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Band Edge @ 3m) (with WPC wireless charger)

| 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+2                                  |                                                                                             | ( 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 |                                                                                             | 5469.2    | 62.79      | -11.21 | 74         | 49.45    | 35.05    | 11.86  | 33.57  | 100    | 260     | P       | H       |
|                                      |                                                                                             | 5470      | 45.82      | -8.18  | 54         | 32.48    | 35.05    | 11.86  | 33.57  | 100    | 260     | A       | H       |
|                                      | *                                                                                           | 5510      | 98.1       | -      | -          | 84.82    | 35.1     | 11.92  | 33.74  | 100    | 260     | P       | H       |
|                                      | *                                                                                           | 5510      | 88.81      | -      | -          | 75.53    | 35.1     | 11.92  | 33.74  | 100    | 260     | A       | H       |
|                                      |                                                                                             | 5761.48   | 56.83      | -17.17 | 74         | 43.44    | 35.26    | 12.33  | 34.2   | 100    | 260     | P       | H       |
|                                      |                                                                                             | 5742.6    | 43.87      | -10.13 | 54         | 30.47    | 35.24    | 12.33  | 34.17  | 100    | 260     | A       | H       |
|                                      |                                                                                             | 5469.36   | 69.07      | -4.93  | 74         | 55.73    | 35.05    | 11.86  | 33.57  | 279    | 90      | P       | V       |
|                                      |                                                                                             | 5469.84   | 51.89      | -2.11  | 54         | 38.55    | 35.05    | 11.86  | 33.57  | 279    | 90      | A       | V       |
|                                      | *                                                                                           | 5510      | 103.2      | -      | -          | 89.92    | 35.1     | 11.92  | 33.74  | 279    | 90      | P       | V       |
|                                      | *                                                                                           | 5510      | 93.8       | -      | -          | 80.52    | 35.1     | 11.92  | 33.74  | 279    | 90      | A       | V       |
|                                      |                                                                                             | 5749.96   | 56.92      | -17.08 | 74         | 43.52    | 35.24    | 12.33  | 34.17  | 279    | 90      | P       | V       |
|                                      |                                                                                             | 5753.96   | 43.82      | -10.18 | 54         | 30.4     | 35.26    | 12.33  | 34.17  | 279    | 90      | 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 802.11n HT40 (Harmonic @ 3m) (with WPC wireless charger)

| 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+2                                  |                                                                                             | ( 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     | 43.33      | -30.67 | 74         | 47.54    | 37.91    | 16.94  | 59.06  | 100    | 0       | P     | H     |
|                                      |                                                                                             | 16530     | 47.04      | -26.96 | 74         | 41.43    | 41.47    | 20.91  | 56.77  | 100    | 0       | P     | H     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                                                             | 11020     | 44.84      | -29.16 | 74         | 47.53    | 37.91    | 16.94  | 57.54  | 100    | 0       | P     | V     |
|                                      |                                                                                             | 16530     | 48.21      | -25.79 | 74         | 41.81    | 41.47    | 20.91  | 55.98  | 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

## 15E Emission below 1GHz

## WIFI 802.11n HT40 (LF @ 3m) (with WPC wireless charger)

| 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+2                   |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>HT40<br>LF |                                                                            | 45.39     | 19.76      | -20.24 | 40         | 39.04  | 10.15    | 1.77   | 31.2   | 177    | 145     | P     | H     |
|                       |                                                                            | 79.14     | 15.15      | -24.85 | 40         | 37.32  | 6.97     | 2.06   | 31.2   |        |         | P     | H     |
|                       |                                                                            | 100.47    | 16.19      | -27.31 | 43.5       | 34.49  | 10.42    | 2.38   | 31.1   |        |         | P     | H     |
|                       |                                                                            | 449.8     | 19.74      | -26.26 | 46         | 29.56  | 17.3     | 3.63   | 30.75  |        |         | P     | H     |
|                       |                                                                            | 705.3     | 25.56      | -20.44 | 46         | 30.75  | 20.8     | 4.41   | 30.4   |        |         | P     | H     |
|                       |                                                                            | 982.5     | 29.69      | -24.31 | 54         | 29.98  | 24.95    | 5.03   | 30.27  |        |         | P     | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            | 45.93     | 26.56      | -13.44 | 40         | 45.84  | 10.15    | 1.77   | 31.2   | 100    | 245     | P     | V     |
|                       |                                                                            | 77.25     | 20.66      | -19.34 | 40         | 42.9   | 6.9      | 2.06   | 31.2   |        |         | P     | V     |
|                       |                                                                            | 98.04     | 21.32      | -22.18 | 43.5       | 40.44  | 9.92     | 2.06   | 31.1   |        |         | P     | V     |
|                       |                                                                            | 607.3     | 23.59      | -22.41 | 46         | 30.29  | 19.81    | 4.08   | 30.59  |        |         | P     | V     |
|                       |                                                                            | 815.2     | 27.01      | -18.99 | 46         | 30.37  | 22.35    | 4.62   | 30.33  |        |         | P     | V     |
|                       |                                                                            | 911.1     | 27.89      | -18.11 | 46         | 29.86  | 23.55    | 4.8    | 30.32  |        |         | P     | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



## 15E band 3 - 5470~5725MHz

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

| 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+2                                  |                                                                                             | ( 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 |                                                                                             | 5469.52   | 67.28      | -6.72  | 74         | 53.94    | 35.05    | 11.86  | 33.57  | 100    | 68      | P       | H       |
|                                      |                                                                                             | 5470      | 51.05      | -2.95  | 54         | 37.71    | 35.05    | 11.86  | 33.57  | 100    | 68      | A       | H       |
|                                      | *                                                                                           | 5510      | 99.58      | -      | -          | 86.3     | 35.1     | 11.92  | 33.74  | 100    | 68      | P       | H       |
|                                      | *                                                                                           | 5510      | 89.41      | -      | -          | 76.13    | 35.1     | 11.92  | 33.74  | 100    | 68      | A       | H       |
|                                      |                                                                                             | 5730.04   | 56.61      | -17.39 | 74         | 43.27    | 35.23    | 12.26  | 34.15  | 100    | 68      | P       | H       |
|                                      |                                                                                             | 5744.12   | 44.04      | -9.96  | 54         | 30.64    | 35.24    | 12.33  | 34.17  | 100    | 68      | A       | H       |
|                                      |                                                                                             | 5469.36   | 69.9       | -4.1   | 74         | 56.56    | 35.05    | 11.86  | 33.57  | 284    | 93      | P       | V       |
|                                      |                                                                                             | 5470      | 53.35      | -0.65  | 54         | 40.01    | 35.05    | 11.86  | 33.57  | 284    | 93      | A       | V       |
|                                      | *                                                                                           | 5510      | 103.03     | -      | -          | 89.75    | 35.1     | 11.92  | 33.74  | 284    | 93      | P       | V       |
|                                      | *                                                                                           | 5510      | 92.34      | -      | -          | 79.06    | 35.1     | 11.92  | 33.74  | 284    | 93      | A       | V       |
|                                      |                                                                                             | 5725.56   | 56.78      | -17.22 | 74         | 43.44    | 35.23    | 12.26  | 34.15  | 284    | 93      | P       | V       |
|                                      |                                                                                             | 5740.04   | 44.18      | -9.82  | 54         | 30.78    | 35.24    | 12.33  | 34.17  | 284    | 93      | 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 802.11n HT40 (Harmonic @ 3m) (with adapter)**

| 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+2                                  |                                                                                             | ( 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     | 44.6       | -29.4  | 74         | 48.81    | 37.91    | 16.94  | 59.06  | 100    | 0       | P     | H     |
|                                      |                                                                                             | 16530     | 47.2       | -26.8  | 74         | 41.59    | 41.47    | 20.91  | 56.77  | 100    | 0       | P     | H     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                                                             |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |                                                                                             | 11020     | 46.39      | -27.61 | 74         | 50.6     | 37.91    | 16.94  | 59.06  | 100    | 0       | P     | V     |
|                                      |                                                                                             | 16530     | 48.29      | -25.71 | 74         | 42.68    | 41.47    | 20.91  | 56.77  | 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 Emission below 1GHz

**WIFI 802.11n HT40 (LF @ 3m) (with adapter)**

| 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+2                   |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>HT40<br>LF |                                                                            | 141.24    | 27.93      | -15.57 | 43.5       | 44.92  | 11.5     | 2.61   | 31.1   | 154    | 84      | P     | H     |
|                       |                                                                            | 218.46    | 22.74      | -23.26 | 46         | 41.79  | 9.28     | 2.69   | 31.02  |        |         | P     | H     |
|                       |                                                                            | 242.76    | 22.54      | -23.46 | 46         | 38.98  | 11.6     | 2.96   | 31     |        |         | P     | H     |
|                       |                                                                            | 333.6     | 24.48      | -21.52 | 46         | 38.29  | 13.91    | 3.28   | 31     |        |         | P     | H     |
|                       |                                                                            | 445.6     | 23.44      | -22.56 | 46         | 33.39  | 17.15    | 3.63   | 30.73  |        |         | P     | H     |
|                       |                                                                            | 923.7     | 28.29      | -17.71 | 46         | 29.75  | 24.09    | 4.8    | 30.35  |        |         | P     | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            | 43.5      | 23.84      | -16.16 | 40         | 42.07  | 11.2     | 1.77   | 31.2   | 100    | 254     | P     | V     |
|                       |                                                                            | 138.81    | 21.12      | -22.38 | 43.5       | 38.34  | 11.5     | 2.38   | 31.1   |        |         | P     | V     |
|                       |                                                                            | 220.35    | 21.37      | -24.63 | 46         | 40.11  | 9.3      | 2.96   | 31     |        |         | P     | V     |
|                       |                                                                            | 452.6     | 22.74      | -23.26 | 46         | 32.54  | 17.33    | 3.63   | 30.76  |        |         | P     | V     |
|                       |                                                                            | 766.2     | 25.49      | -20.51 | 46         | 29.28  | 22.1     | 4.48   | 30.37  |        |         | P     | V     |
|                       |                                                                            | 996.5     | 28.66      | -25.34 | 54         | 29.17  | 24.68    | 5.03   | 30.22  |        |         | P     | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark                | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



**Note symbol**

|     |                                                                                                                                                                        |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency 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+2     |      | ( 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”.**