



# FCC RADIO TEST REPORT

**FCC ID** : A4RGXCA6  
**Equipment** : Wireless Device  
**Model Name** : GXCA6  
**Applicant** : Google LLC  
1600 Amphitheatre Parkway,  
Mountain View, California, 94043 USA  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Feb. 26, 2020 and testing was started from Mar. 12, 2020 and completed on May 28, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

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



## Table of Contents

History of this test report ..... 3

Summary of Test Result ..... 4

**1 General Description..... 5**

    1.1 Product Feature of Equipment Under Test ..... 5

    1.2 Product Specification of Equipment Under Test ..... 6

    1.3 Modification of EUT ..... 8

    1.4 Testing Location ..... 8

    1.5 Applicable Standards ..... 8

**2 Test Configuration of Equipment Under Test..... 9**

    2.1 Carrier Frequency and Channel ..... 9

    2.2 Test Mode ..... 10

    2.3 Connection Diagram of Test System ..... 12

    2.4 Support Unit used in test configuration and system ..... 13

    2.5 EUT Operation Test Setup ..... 13

    2.6 Measurement Results Explanation Example ..... 13

**3 Test Result..... 14**

    3.1 26dB & 99% Occupied Bandwidth Measurement..... 14

    3.2 Maximum Conducted Output Power Measurement..... 16

    3.3 Power Spectral Density Measurement..... 18

    3.4 Unwanted Emissions Measurement ..... 21

    3.5 AC Conducted Emission Measurement ..... 26

    3.6 Automatically Discontinue Transmission ..... 28

    3.7 Antenna Requirements ..... 30

**4 List of Measuring Equipment ..... 31**

**5 Uncertainty of Evaluation ..... 33**

**Appendix A. Conducted Test Results**

**Appendix B. AC Conducted Emission Test Result**

**Appendix C. Radiated Spurious Emission**

**Appendix D. Radiated Spurious Emission Plots**

**Appendix E. Duty Cycle Plots**





## Summary of Test Result

| Report Clause | Ref Std. Clause     | Test Items                             | Result (PASS/FAIL) | Remark                                    |
|---------------|---------------------|--|--------------------|---|
| 3.1           | 15.403(i)           | 26dB Bandwidth                         | Pass               | -   |
| 3.1           | 2.1049              | 99% Occupied Bandwidth                 | Reporting only     | -   |
| 3.2           | 15.407(a)           | Maximum Conducted Output Power         | Pass               | -   |
| 3.3           | 15.407(a)           | Power Spectral Density                 | Pass               | -   |
| 3.4           | 15.407(b)           | Unwanted Emissions                     | Pass               | Under limit<br>1.51 dB at<br>5150.000 MHz |
| 3.5           | 15.207              | AC Conducted Emission                  | Pass               | Under limit<br>12.66 dB at<br>0.634 MHz   |
| 3.6           | 15.407(c)           | Automatically Discontinue Transmission | Pass               | -   |
| 0             | 15.203<br>15.407(a) | Antenna Requirement                    | Pass               | -   |

**Declaration of Conformity:**

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

**Comments and Explanations:**

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

**Reviewed by: Wii Chang**

**Report Producer: Fiona Wu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature                 |   |
|---------------------------------|---|
| Equipment                       | Wireless Device   |
| Model Name                      | GXCA6   |
| FCC ID                          | A4RGXCA6  |
| EUT supports Radios application | WLAN 11b/g/n HT20<br>WLAN 11a/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80<br>Bluetooth BR/EDR/LE |

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

| EUT Information List |                            |
|----------------------|----------------------------|
| S/N                  | Performed Test Item        |
| N/A                  | Conducted Measurement      |
| 01231HFDDL014DB      | Radiated Spurious Emission |
| 01171HFDDL013LG      | Conducted Emission         |



### 1.2 Product Specification of Equipment Under Test

| Standards-related Product Specification |   |
|---|---|
| <b>Tx/Rx Frequency Range</b>            | 5180 MHz ~ 5240 MHz<br>5260 MHz ~ 5320 MHz<br>5500 MHz ~ 5720 MHz   |
| <b>Maximum Output Power</b>             | <p><b>&lt;5180 MHz ~ 5240 MHz&gt;</b><br/> <b>&lt;Ant. 1&gt;</b><br/>           802.11a : 15.70 dBm / 0.0372 W<br/>           802.11n HT20 : 15.70 dBm / 0.0372 W<br/>           802.11n HT40 : 14.60 dBm / 0.0288 W<br/>           802.11ac VHT20: 15.60 dBm / 0.0363 W<br/>           802.11ac VHT40: 14.50 dBm / 0.0282 W<br/>           802.11ac VHT80: 9.60 dBm / 0.0091 W<br/> <b>&lt;Ant. 2&gt;</b><br/>           802.11a : 15.60 dBm / 0.0363 W<br/>           802.11n HT20 : 15.70 dBm / 0.0372 W<br/>           802.11n HT40 : 14.60 dBm / 0.0288 W<br/>           802.11ac VHT20: 15.60 dBm / 0.0363 W<br/>           802.11ac VHT40: 14.50 dBm / 0.0282 W<br/>           802.11ac VHT80: 9.90 dBm / 0.0098 W<br/> <b>&lt;5260 MHz ~ 5320 MHz&gt;</b><br/> <b>&lt;Ant. 1&gt;</b><br/>           802.11a : 15.60 dBm / 0.0363 W<br/>           802.11n HT20 : 15.70 dBm / 0.0372 W<br/>           802.11n HT40 : 14.70 dBm / 0.0295 W<br/>           802.11ac VHT20: 15.60 dBm / 0.0363 W<br/>           802.11ac VHT40: 14.60 dBm / 0.0288 W<br/>           802.11ac VHT80: 10.60 dBm / 0.0115 W<br/> <b>&lt;Ant. 2&gt;</b><br/>           802.11a : 15.70 dBm / 0.0372 W<br/>           802.11n HT20 : 15.60 dBm / 0.0363 W<br/>           802.11n HT40 : 14.70 dBm / 0.0295 W<br/>           802.11ac VHT20: 15.50 dBm / 0.0355 W<br/>           802.11ac VHT40: 14.60 dBm / 0.0288 W<br/>           802.11ac VHT80: 9.40 dBm / 0.0087 W<br/> <b>&lt;5500 MHz ~ 5720 MHz &gt;</b><br/> <b>&lt;Ant. 1&gt;</b><br/>           802.11a : 15.70 dBm / 0.0372 W<br/>           802.11n HT20 : 15.60 dBm / 0.0363 W<br/>           802.11n HT40 : 14.70 dBm / 0.0295 W<br/>           802.11ac VHT20: 15.50 dBm / 0.0355 W<br/>           802.11ac VHT40: 14.60 dBm / 0.0288 W<br/>           802.11ac VHT80: 11.70 dBm / 0.0148 W<br/> <b>&lt;Ant. 2&gt;</b><br/>           802.11a : 15.70 dBm / 0.0372 W<br/>           802.11n HT20 : 15.70 dBm / 0.0372 W<br/>           802.11n HT40 : 14.70 dBm / 0.0295 W<br/>           802.11ac VHT20: 15.60 dBm / 0.0363 W<br/>           802.11ac VHT40: 14.60 dBm / 0.0288 W<br/>           802.11ac VHT80: 11.60 dBm / 0.0145 W</p> |



| Standards-related Product Specification |   |
|---|---|
| 99% Occupied Bandwidth                  | <b>&lt;Ant. 1&gt;</b><br>802.11a : 17.20 MHz<br>802.11n HT20 : 17.85 MHz<br>802.11n HT40 : 36.70 MHz<br>802.11ac VHT80: 77.16 MHz<br><b>&lt;Ant. 2&gt;</b><br>802.11a : 17.05 MHz<br>802.11n HT20 : 17.85 MHz<br>802.11n HT40 : 36.70 MHz<br>802.11ac VHT80: 77.40 MHz  |
| Type of Modulation                      | 802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)  |
| Antenna Type / Gain                     | <b>&lt;5180 MHz ~ 5240 MHz&gt;</b><br><b>Ant. 1</b> : PCB PIFA Antenna type with gain 7.6 dBi<br><b>Ant. 2</b> : PCB PIFA Antenna type with gain 7.7 dBi<br><b>&lt;5260 MHz ~ 5320 MHz&gt;</b><br><b>Ant. 1</b> : PCB PIFA Antenna type with gain 7.6 dBi<br><b>Ant. 2</b> : PCB PIFA Antenna type with gain 7.7 dBi<br><b>&lt;5500 MHz ~ 5720 MHz &gt;</b><br><b>Ant. 1</b> : PCB PIFA Antenna type with gain 7.3 dBi<br><b>Ant. 2</b> : PCB PIFA Antenna type with gain 6.6 dBi |



### 1.3 Modification of EUT

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

### 1.4 Testing Location

|                           |   |         |           |          |
|---------------------------|---|---------|-----------|----------|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory   |         |           |          |
| <b>Test Site Location</b> | No.52, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |         |           |          |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>   |         |           |          |
|                           | TH05-HY   | CO05-HY | 03CH07-HY | DFS02-HY |

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

FCC designation No.: TW1190

### 1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation





## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

| Frequency Band                       | Channel         | Freq. (MHz) | Channel | Freq. (MHz) |
|--------------------------------------|-----------------|-------------|---------|-------------|
| 5150-5250 MHz<br>Band 1<br>(U-NII-1) | 36              | 5180        | 44      | 5220        |
|                                      | 38*             | 5190        | 46*     | 5230        |
|                                      | 40              | 5200        | 48      | 5240        |
|                                      | 42 <sup>#</sup> | 5210        |         |             |

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

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



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

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

Note:

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

## 2.2 Test Mode

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

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

| Test Cases  |   |
|---|---|
| AC Conducted Emission   | Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Max. Volum + Streaming music through WLAN and Bluetooth speaker + AC Adapter 2 |
| <b>Remark:</b> For Radiated Test Cases, the tests were performed with Adapter 1 |   |



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

| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11n HT20           | 802.11n HT20            | 802.11n HT20            |
| L        | Low    | 36                     | 52                      | 100                     |
| M        | Middle | 44                     | 60                      | 116                     |
| H        | High   | 48                     | 64                      | 140                     |
| Straddle |        | -                      | -                       | 144                     |

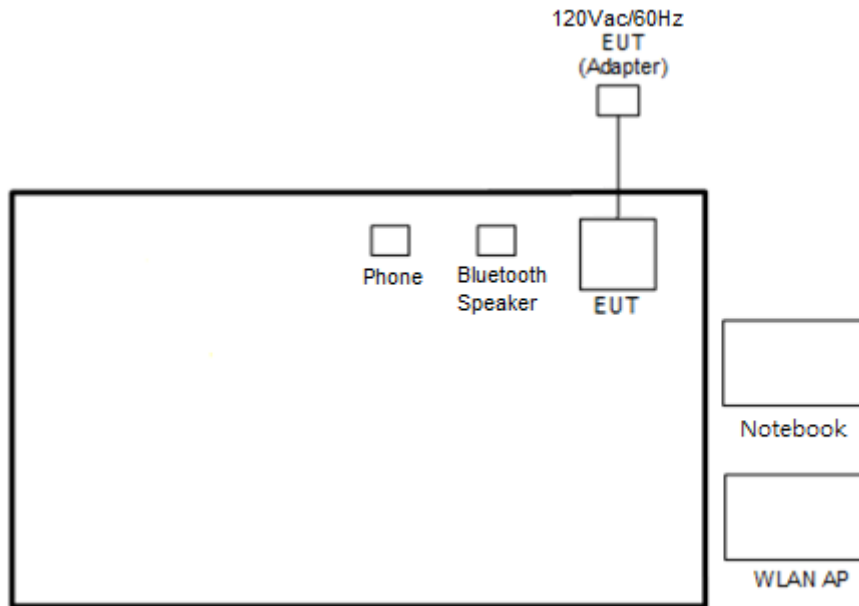
| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11n HT40           | 802.11n HT40            | 802.11n HT40            |
| L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

| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11ac VHT80         | 802.11ac VHT80          | 802.11ac VHT80          |
| L        | Low    | -                      | -                       | 106                     |
| M        | Middle | 42                     | 58                      | 122                     |
| H        | High   | -                      | -                       | -                       |
| Straddle |        | -                      | -                       | 138                     |

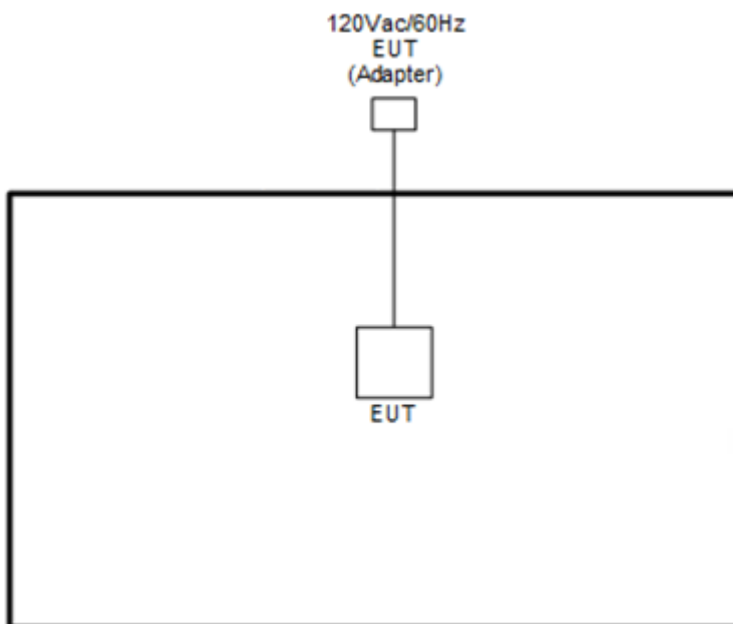
**Remark:** For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

## 2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN TX Mode>



## 2.4 Support Unit used in test configuration and system

| Item | Equipment         | Trade Name | Model Name    | FCC ID      | Data Cable | Power Cord   |
|------|-------------------|------------|---------------|-------------|------------|--|
| 1.   | WLAN AP           | ASUS       | RT-AC66U      | MSQ-RTAC66U | N/A        | Unshielded, 1.8 m  |
| 2.   | Notebook          | Dell       | Latitude 3400 | FCC DoC     | N/A        | AC I/P :<br>Unshielded, 1.2m<br>DC O/P :<br>Shielded, 1.8m |
| 3.   | Bluetooth Speaker | KINGONE    | K5            | N/A         | N/A        | Unshielded, 1.8 m  |
| 4.   | Phone             | Google     | Pixel 4 XL    | N/A         | N/A        | Unshielded, 1.8 m  |

## 2.5 EUT Operation Test Setup

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

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

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

Example :

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

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

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

### 3 Test Result

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

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

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

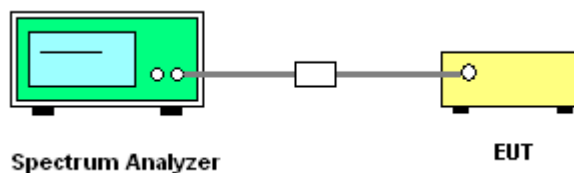
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

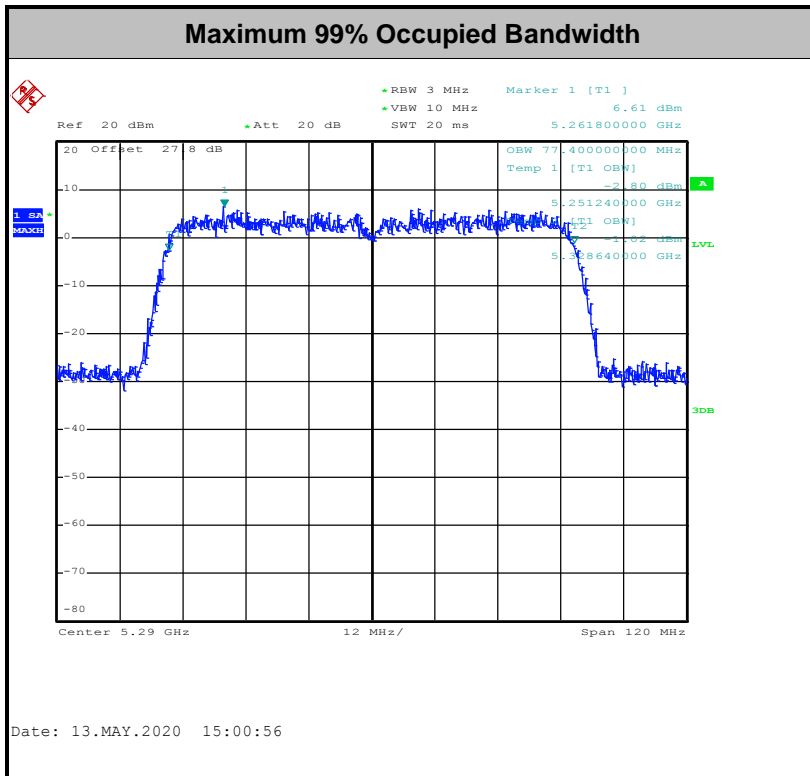
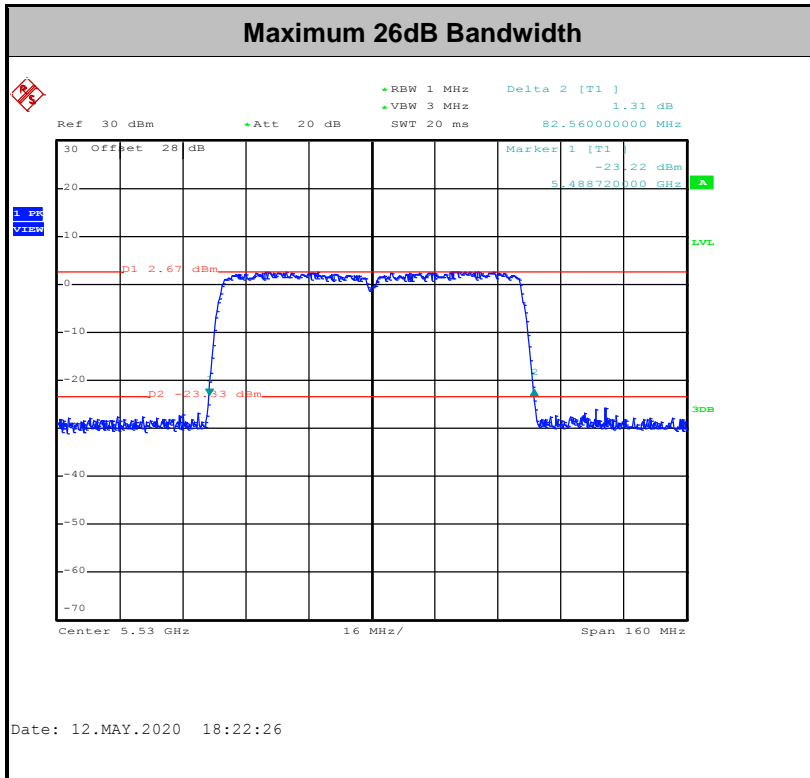
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB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

##### 3.1.4 Test Setup



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

Please refer to Appendix A.



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



## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

**For the 5.15–5.25 GHz bands:**

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

**For the 5.25–5.725 GHz bands:**

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

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

### 3.2.2 Measuring Instruments

See list of measuring equipment of this test report.



### 3.2.3 Test Procedures

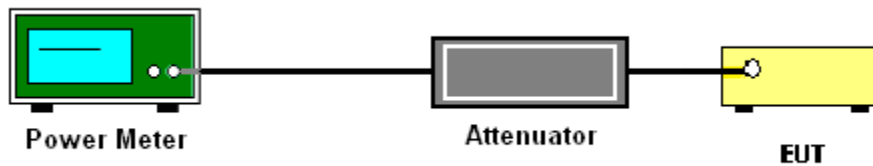
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

**For the 5.15–5.25 GHz bands:**

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

**For the 5.25–5.725 GHz bands:**

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

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

#### 3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.3.3 Test Procedures

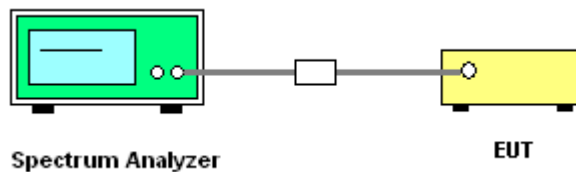
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.  
Section F) Maximum power spectral density.

#### # Method SA-3 #

(power averaging (rms) detection with max hold):

- 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  $\leq$  (number of points in sweep)  $\times$  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.
  - Detector = power averaging (rms).
  - Trace mode = max hold.
  - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
  2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

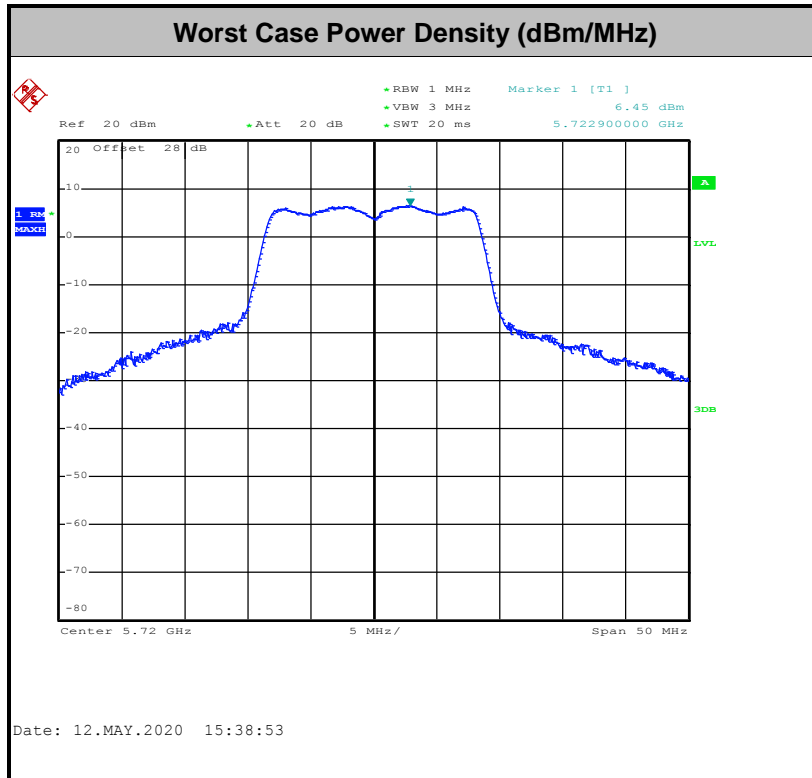
### 3.3.4 Test Setup





### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.





### 3.4 Unwanted Emissions Measurement

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

#### 3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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



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

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

- (i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.
- (ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

### 3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.4.3 Test Procedures

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

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

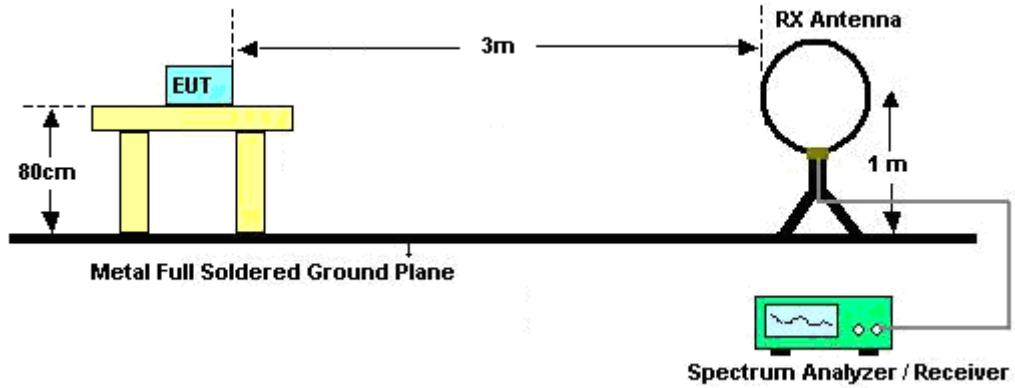


(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

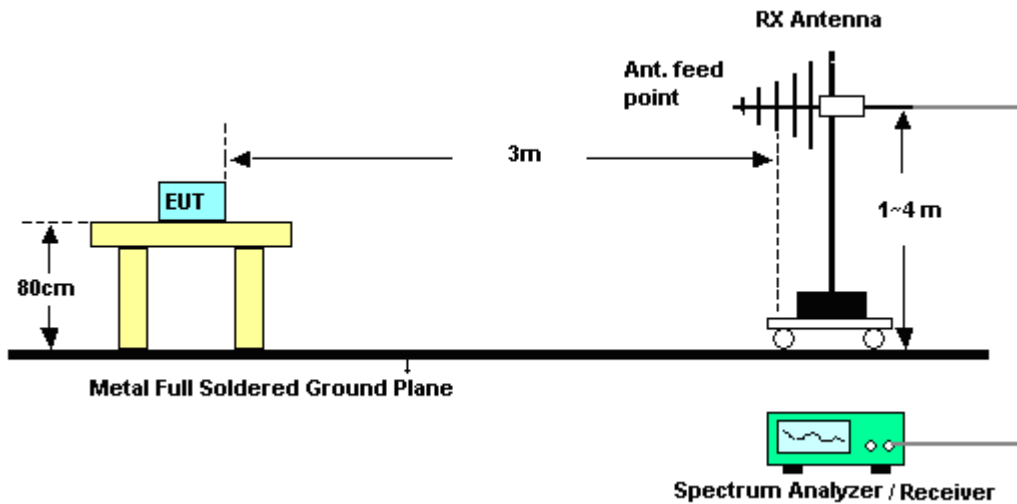
- RBW = 1 MHz
  - VBW = 10 Hz, when duty cycle is no less than 98 percent.
  - $VBW \geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
  3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
  4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
  5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
  6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
  7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.4 Test Setup

For radiated emissions below 30MHz

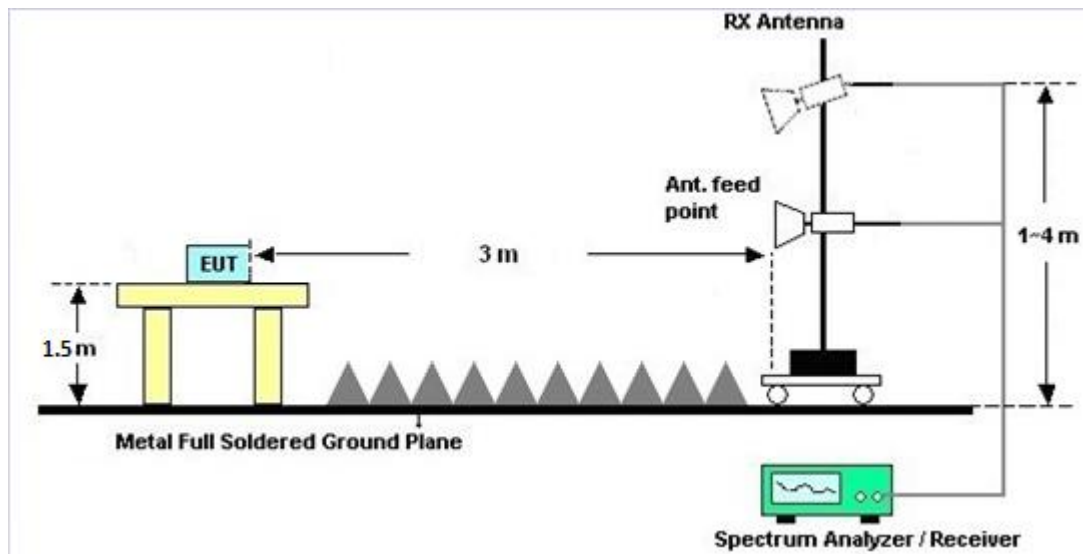


For radiated emissions from 30MHz to 1GHz





For radiated emissions above 1GHz



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

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

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

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

Please refer to Appendix C and D.

### 3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.



### 3.5 AC Conducted Emission Measurement

#### 3.5.1 Limit of AC Conducted Emission

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

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

\*Decreases with the logarithm of the frequency.

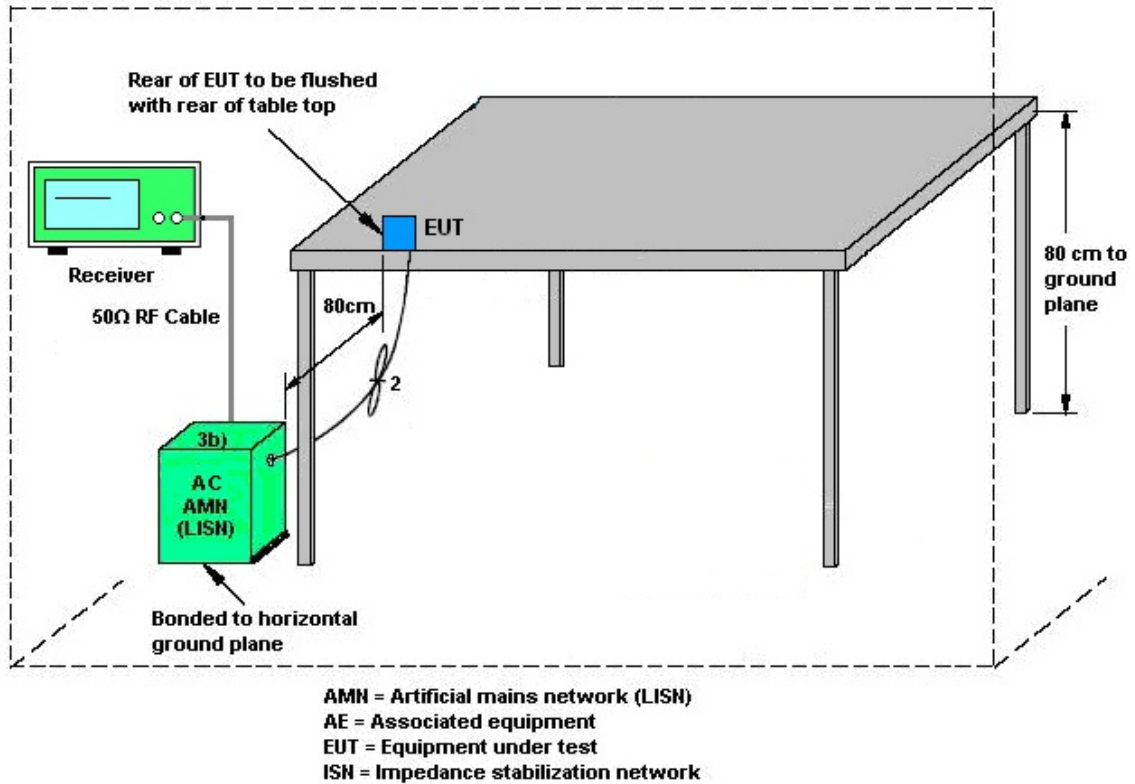
#### 3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.6 Automatically Discontinue Transmission**

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

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

### **3.6.2 Measuring Instruments**

See list of measuring equipment of this test report.

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

EUT is verified this characteristic during the function check of normal sample associated with an access point:

- A. Information start: make EUT supply information to the access point.
- B. Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

- C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



5180MHz



**Note:** The control / signalling information during the period B is precluded.



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

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

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

An embedded-in antenna design is used.

### **3.7.3 Antenna Gain**

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



## 4 List of Measuring Equipment

| Instrument                | Manufacturer    | Model No.                          | Serial No.                      | Characteristics | Calibration Date | Test Date                    | Due Date      | Remark                |
|---------------------------|-----------------|------------------------------------|---------------------------------|-----------------|------------------|------------------------------|---------------|-----------------------|
| Bilog Antenna             | TESEQ           | CBL 6111D & 00800N1D01N-06         | 35419 & 03                      | 30MHz~1GHz      | Apr. 30, 2019    | Apr. 21, 2020~ Apr. 28, 2020 | Apr. 29, 2020 | Radiation (03CH07-HY) |
| Bilog Antenna             | TESEQ           | CBL 6111D & 00800N1D01N-06         | 35419 & 03                      | 30MHz~1GHz      | Apr. 29, 2020    | Apr. 30, 2020~ May 12, 2020  | Apr. 28, 2021 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO            | 3117                               | 00075962                        | 1GHz ~ 18GHz    | Dec. 06, 2019    | Apr. 21, 2020~ May 12, 2020  | Dec. 05, 2020 | Radiation (03CH07-HY) |
| EMI Test Receiver         | Agilent         | N9038A(MXE)                        | MY53290053                      | 20Hz~26.5GHz    | Jan. 18, 2020    | Apr. 21, 2020~ May 12, 2020  | Jan. 17, 2021 | Radiation (03CH07-HY) |
| Loop Antenna              | Rohde & Schwarz | HFH2-Z2                            | 100315                          | 9 kHz~30 MHz    | Dec. 26, 2019    | Apr. 21, 2020~ May 12, 2020  | Dec. 25, 2020 | Radiation (03CH07-HY) |
| Preamplifier              | MITEQ           | AMF-7D-0010 1800-30-10P            | 1590075                         | 1GHz~18GHz      | Apr. 24, 2019    | Apr. 21, 2020~ Apr. 22, 2020 | Apr. 23, 2020 | Radiation (03CH07-HY) |
| Preamplifier              | MITEQ           | AMF-7D-0010 1800-30-10P            | 1590075                         | 1GHz~18GHz      | Apr. 23, 2020    | Apr. 24, 2020~ May 12, 2020  | Apr. 22, 2021 | Radiation (03CH07-HY) |
| Preamplifier              | COM-POWER       | PA-103A                            | 161241                          | 10MHz~1GHz      | May 20, 2019     | Apr. 21, 2020~ May 12, 2020  | May 19, 2020  | Radiation (03CH07-HY) |
| Preamplifier              | Agilent         | 8449B                              | 3008A02362                      | 1GHz~26.5GHz    | Nov. 01, 2019    | Apr. 21, 2020~ May 12, 2020  | Oct. 31, 2020 | Radiation (03CH07-HY) |
| Notch Filter              | Wainwright      | WRCJV12-569 5-5725-5850-5 880-40SS | SN1                             | 5G Band 4       | Mar. 15, 2020    | Apr. 21, 2020~ May 12, 2020  | Mar. 14, 2021 | Radiation (03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 102                       | MY2858/2,801 606/2              | 18GHz~40GHz     | Feb. 25, 2020    | Apr. 21, 2020~ May 12, 2020  | Feb. 24, 2021 | Radiation (03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 104                       | MY24971/4, MY28655/4            | 9kHz~30MHz      | Feb. 25, 2020    | Apr. 21, 2020~ May 12, 2020  | Feb. 24, 2021 | Radiation (03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 104                       | MY28655/4, MY24971/4, MY15682/4 | 30MHz~1GHz      | Feb. 25, 2020    | Apr. 21, 2020~ May 12, 2020  | Feb. 24, 2021 | Radiation (03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 104                       | MY28655/4, MY24971/4, MY15682/4 | 1GHz~18GHz      | Feb. 25, 2020    | Apr. 21, 2020~ May 12, 2020  | Feb. 24, 2021 | Radiation (03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 102                       | 801606/2                        | 9KHz ~ 40GHz    | N/A              | Apr. 21, 2020~ May 12, 2020  | N/A           | Radiation (03CH07-HY) |



| Instrument              | Manufacturer    | Model No.         | Serial No.    | Characteristics    | Calibration Date | Test Date                      | Due Date      | Remark                   |
|-------------------------|-----------------|-------------------|---------------|--------------------|------------------|--------------------------------|---------------|--------------------------|
| Controller              | ChainTek        | Chaintek 3000     | N/A           | Control Turn table | N/A              | Apr. 21, 2020~<br>May 12, 2020 | N/A           | Radiation<br>(03CH07-HY) |
| Controller              | Max-Full        | MF7802            | MF780208368   | Control Ant Mast   | N/A              | Apr. 21, 2020~<br>May 12, 2020 | N/A           | Radiation<br>(03CH07-HY) |
| Antenna Mast            | Max-Full        | MFA520BS          | N/A           | 1m~4m              | N/A              | Apr. 21, 2020~<br>May 12, 2020 | N/A           | Radiation<br>(03CH07-HY) |
| Turn Table              | ChainTek        | Chaintek 3000     | N/A           | 0~360 Degree       | N/A              | Apr. 21, 2020~<br>May 12, 2020 | N/A           | Radiation<br>(03CH07-HY) |
| USB Data Logger         | TECPEL          | TR-32             | HE17XB2495    | N/A                | N/A              | Apr. 21, 2020~<br>May 12, 2020 | N/A           | Radiation<br>(03CH07-HY) |
| Spectrum Analyzer       | Keysight        | N9010A            | MY54200486    | 10Hz~44GHz         | Oct. 28, 2019    | Apr. 21, 2020~<br>May 12, 2020 | Oct. 27, 2020 | Radiation<br>(03CH07-HY) |
| SHF-EHF Horn Antenna    | SCHWARZBECK     | BBHA 9170         | BBHA9170251   | 18GHz~40GHz        | Nov. 26, 2019    | Apr. 21, 2020~<br>May 12, 2020 | Nov. 25, 2020 | Radiation<br>(03CH07-HY) |
| Software                | Audix           | E3<br>6.2009-8-24 | N/A           | N/A                | N/A              | Apr. 21, 2020~<br>May 12, 2020 | N/A           | Radiation<br>(03CH07-HY) |
| Preamplifier            | EMEC            | EM18G40G          | 060715        | 18GHz~40GHz        | Dec. 13, 2019    | Apr. 21, 2020~<br>May 12, 2020 | Dec. 12, 2020 | Radiation<br>(03CH07-HY) |
| Hygrometer              | Testo           | 608-H2            | 41410069      | N/A                | Jun. 17, 2019    | May 01, 2020~<br>May 13, 2020  | Jun. 16, 2020 | Conducted<br>(TH05-HY)   |
| Power Sensor            | DARE            | RPR3006W          | 16I00054SNO10 | 10MHz~6GHz         | Dec. 23, 2019    | May 01, 2020~<br>May 13, 2020  | Dec. 22, 2020 | Conducted<br>(TH05-HY)   |
| Spectrum Analyzer       | Rohde & Schwarz | FSP40             | 100055        | 9kHz-40GHz         | Aug. 14, 2019    | May 01, 2020~<br>May 13, 2020  | Aug. 13, 2020 | Conducted<br>(TH05-HY)   |
| Switch Control Manframe | Burgeon         | ETF-058           | EC1300484     | N/A                | Aug. 22, 2019    | May 01, 2020~<br>May 13, 2020  | Aug. 21, 2020 | Conducted<br>(TH05-HY)   |
| AC Power Source         | ChainTek        | APC-1000W         | N/A           | N/A                | N/A              | Mar. 12, 2020                  | N/A           | Conduction<br>(CO05-HY)  |
| EMI Test Receiver       | Rohde & Schwarz | ESR3              | 102388        | 9kHz~3.6GHz        | Nov. 15, 2019    | Mar. 12, 2020                  | Nov. 14, 2020 | Conduction<br>(CO05-HY)  |
| Hygrometer              | Testo           | 608-H1            | 34913912      | N/A                | Mar. 19, 2019    | Mar. 12, 2020                  | Mar. 18, 2020 | Conduction<br>(CO05-HY)  |
| LISN                    | Rohde & Schwarz | ENV216            | 100080        | 9kHz~30MHz         | Nov. 20, 2019    | Mar. 12, 2020                  | Nov. 19, 2020 | Conduction<br>(CO05-HY)  |
| Software                | Rohde & Schwarz | EMC32<br>V10.30   | N/A           | N/A                | N/A              | Mar. 12, 2020                  | N/A           | Conduction<br>(CO05-HY)  |
| LF Cable                | HUBER + SUHNER  | RG-214/U          | LF01          | N/A                | Jan. 02, 2020    | Mar. 12, 2020                  | Jan. 01, 2021 | Conduction<br>(CO05-HY)  |
| Pulse Limiter           | Rohde & Schwarz | ESH3-Z2           | 100851        | N/A                | Jan. 02, 2020    | Mar. 12, 2020                  | Jan. 01, 2021 | Conduction<br>(CO05-HY)  |
| Spectrum Analyzer       | Keysight        | N9010A            | MY56070412    | 10Hz~7GHz          | Aug. 27, 2019    | May 28, 2020                   | Aug. 26, 2020 | DFS<br>(DFS02-HY)        |





## 5 Uncertainty of Evaluation

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

|   |     |
|---|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.3 |
|---|-----|

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

|   |     |
|---|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.6 |
|---|-----|

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

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

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

|   |     |
|---|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.3 |
|---|-----|

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

|                |                       |                    |       |    |
|----------------|-----------------------|--------------------|-------|----|
| Test Engineer: | Shiming Liu           | Temperature:       | 21~25 | °C |
| Test Date:     | 2020/05/01~2020/05/13 | Relative Humidity: | 51~54 | %  |

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

| Band I single antenna |           |     |     |             |                     |       |                       |       |                                    |       |                                   |       |      |
|-----------------------|-----------|-----|-----|-------------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|------|
| Mod.                  | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | Note |
|                       |           |     |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 |      |
| 11a                   | 6Mbps     | 1   | 36  | 5180        | 16.85               | 16.80 | 27.55                 | 27.85 | -                                  | -     | 22.27                             | 22.25 |      |
| 11a                   | 6Mbps     | 1   | 44  | 5220        | 16.90               | 16.95 | 35.25                 | 35.25 | -                                  | -     | 22.28                             | 22.29 |      |
| 11a                   | 6Mbps     | 1   | 48  | 5240        | 16.95               | 16.90 | 35.30                 | 35.20 | -                                  | -     | 22.29                             | 22.28 |      |
| HT20                  | MCS0      | 1   | 36  | 5180        | 17.75               | 17.75 | 21.70                 | 21.70 | -                                  | -     | 22.49                             | 22.49 |      |
| HT20                  | MCS0      | 1   | 44  | 5220        | 17.75               | 17.80 | 23.75                 | 23.70 | -                                  | -     | 22.49                             | 22.50 |      |
| HT20                  | MCS0      | 1   | 48  | 5240        | 17.85               | 17.80 | 23.25                 | 23.20 | -                                  | -     | 22.52                             | 22.50 |      |
| HT40                  | MCS0      | 1   | 38  | 5190        | 36.50               | 36.50 | 41.76                 | 41.76 | -                                  | -     | 23.01                             | 23.01 |      |
| HT40                  | MCS0      | 1   | 46  | 5230        | 36.60               | 36.60 | 41.72                 | 41.57 | -                                  | -     | 23.01                             | 23.01 |      |
| VHT80                 | MCS0      | 1   | 42  | 5210        | 77.16               | 77.16 | 82.24                 | 82.24 | -                                  | -     | 23.01                             | 23.01 |      |

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

| FCC Band I single antenna |           |     |     |             |                               |       |     |                                 |       |          |       |           |
|---------------------------|-----------|-----|-----|-------------|-------------------------------|-------|-----|---------------------------------|-------|----------|-------|-----------|
| Mod.                      | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |     | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | Pass/Fail |
|                           |           |     |     |             | Ant 1                         | Ant 2 | SUM | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |           |
| 11a                       | 6Mbps     | 1   | 36  | 5180        | 14.10                         | 14.50 |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |
| 11a                       | 6Mbps     | 1   | 44  | 5220        | 15.70                         | 15.60 |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |
| 11a                       | 6Mbps     | 1   | 48  | 5240        | 15.60                         | 15.60 |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |
| HT20                      | MCS0      | 1   | 36  | 5180        | 14.20                         | 14.60 |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |
| HT20                      | MCS0      | 1   | 44  | 5220        | 15.70                         | 15.70 |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |
| HT20                      | MCS0      | 1   | 48  | 5240        | 15.60                         | 15.70 |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |
| HT40                      | MCS0      | 1   | 38  | 5190        | 11.10                         | 11.60 |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |
| HT40                      | MCS0      | 1   | 46  | 5230        | 14.60                         | 14.60 |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |
| VHT20                     | MCS0      | 1   | 36  | 5180        | 14.10                         | 14.50 |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |
| VHT20                     | MCS0      | 1   | 44  | 5220        | 15.60                         | 15.60 |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |
| VHT20                     | MCS0      | 1   | 48  | 5240        | 15.50                         | 15.60 |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |
| VHT40                     | MCS0      | 1   | 38  | 5190        | 11.00                         | 11.50 |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |
| VHT40                     | MCS0      | 1   | 46  | 5230        | 14.50                         | 14.50 |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |
| VHT80                     | MCS0      | 1   | 42  | 5210        | 9.60                          | 9.90  |     | 22.40                           | 22.30 | 7.60     | 7.70  | Pass      |

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

| FCC Band I single antenna |           |     |     |             |                                 |       |     |                             |       |          |       |            |
|---------------------------|-----------|-----|-----|-------------|---------------------------------|-------|-----|-----------------------------|-------|----------|-------|------------|
| Mod.                      | Data Rate | NTX | CH. | Freq. (MHz) | Average Power Density (dBm/MHz) |       |     | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|                           |           |     |     |             | Ant 1                           | Ant 2 | SUM | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |            |
| 11a                       | 6Mbps     | 1   | 36  | 5180        | 4.93                            | 4.97  |     | 9.40                        | 9.30  | 7.60     | 7.70  | Pass       |
| 11a                       | 6Mbps     | 1   | 44  | 5220        | 6.17                            | 6.16  |     | 9.40                        | 9.30  | 7.60     | 7.70  | Pass       |
| 11a                       | 6Mbps     | 1   | 48  | 5240        | 5.90                            | 5.98  |     | 9.40                        | 9.30  | 7.60     | 7.70  | Pass       |
| HT20                      | MCS0      | 1   | 36  | 5180        | 4.79                            | 4.01  |     | 9.40                        | 9.30  | 7.60     | 7.70  | Pass       |
| HT20                      | MCS0      | 1   | 44  | 5220        | 5.82                            | 5.03  |     | 9.40                        | 9.30  | 7.60     | 7.70  | Pass       |
| HT20                      | MCS0      | 1   | 48  | 5240        | 5.80                            | 4.94  |     | 9.40                        | 9.30  | 7.60     | 7.70  | Pass       |
| HT40                      | MCS0      | 1   | 38  | 5190        | -1.11                           | -1.92 |     | 9.40                        | 9.30  | 7.60     | 7.70  | Pass       |
| HT40                      | MCS0      | 1   | 46  | 5230        | 1.80                            | 1.22  |     | 9.40                        | 9.30  | 7.60     | 7.70  | Pass       |
| VHT80                     | MCS0      | 1   | 42  | 5210        | -6.35                           | -7.05 |     | 9.40                        | 9.30  | 7.60     | 7.70  | Pass       |

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

| Band II single antenna |           |     |     |             |                     |       |                       |       |                                    |       |                                   |       |                                      |       |      |
|------------------------|-----------|-----|-----|-------------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|------|
| Mod.                   | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       | Note |
|                        |           |     |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 |      |
| 11a                    | 6Mbps     | 1   | 52  | 5260        | 16.95               | 16.90 | 35.40                 | 35.45 | 23.29                              | 23.28 | 29.29                             | 29.28 | 23.98                                | 23.98 |      |
| 11a                    | 6Mbps     | 1   | 60  | 5300        | 17.20               | 16.95 | 35.35                 | 35.35 | 23.36                              | 23.29 | 29.36                             | 29.29 | 23.98                                | 23.98 |      |
| 11a                    | 6Mbps     | 1   | 64  | 5320        | 16.85               | 16.85 | 28.80                 | 28.00 | 23.27                              | 23.27 | 29.27                             | 29.27 | 23.98                                | 23.98 |      |
| HT20                   | MCS0      | 1   | 52  | 5260        | 17.75               | 17.75 | 23.00                 | 23.25 | 23.49                              | 23.49 | 29.49                             | 29.49 | 23.98                                | 23.98 |      |
| HT20                   | MCS0      | 1   | 60  | 5300        | 17.80               | 17.85 | 25.60                 | 23.00 | 23.50                              | 23.52 | 29.50                             | 29.52 | 23.98                                | 23.98 |      |
| HT20                   | MCS0      | 1   | 64  | 5320        | 17.75               | 17.75 | 21.70                 | 21.65 | 23.49                              | 23.49 | 29.49                             | 29.49 | 23.98                                | 23.98 |      |
| HT40                   | MCS0      | 1   | 54  | 5270        | 36.60               | 36.60 | 41.94                 | 41.76 | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 |      |
| HT40                   | MCS0      | 1   | 62  | 5310        | 36.60               | 36.60 | 41.94                 | 41.92 | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 |      |
| VHT80                  | MCS0      | 1   | 58  | 5290        | 77.16               | 77.40 | 82.24                 | 82.16 | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 |      |

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

| FCC Band II single antenna |           |     |     |             |                               |       |     |                                 |       |          |       |                        |           |
|----------------------------|-----------|-----|-----|-------------|-------------------------------|-------|-----|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.                       | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |     | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power Limit (dBm) | Pass/Fail |
|                            |           |     |     |             | Ant 1                         | Ant 2 | SUM | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |                        |           |
| 11a                        | 6Mbps     | 1   | 52  | 5260        | 15.60                         | 15.60 |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |
| 11a                        | 6Mbps     | 1   | 60  | 5300        | 15.60                         | 15.70 |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |
| 11a                        | 6Mbps     | 1   | 64  | 5320        | 14.20                         | 14.20 |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |
| HT20                       | MCS0      | 1   | 52  | 5260        | 15.60                         | 15.60 |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |
| HT20                       | MCS0      | 1   | 60  | 5300        | 15.70                         | 15.60 |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |
| HT20                       | MCS0      | 1   | 64  | 5320        | 14.30                         | 14.40 |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |
| HT40                       | MCS0      | 1   | 54  | 5270        | 14.70                         | 14.70 |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |
| HT40                       | MCS0      | 1   | 62  | 5310        | 13.70                         | 12.10 |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |
| VHT20                      | MCS0      | 1   | 52  | 5260        | 15.50                         | 15.50 |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |
| VHT20                      | MCS0      | 1   | 60  | 5300        | 15.60                         | 15.50 |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |
| VHT20                      | MCS0      | 1   | 64  | 5320        | 14.20                         | 14.30 |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |
| VHT40                      | MCS0      | 1   | 54  | 5270        | 14.60                         | 14.60 |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |
| VHT40                      | MCS0      | 1   | 62  | 5310        | 13.60                         | 12.00 |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |
| VHT80                      | MCS0      | 1   | 58  | 5290        | 10.60                         | 9.40  |     | 22.38                           | 22.28 | 7.60     | 7.70  | 26.99                  | Pass      |

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

| Band II single antenna |           |     |     |             |                                 |       |     |                             |       |          |       |  |            |
|------------------------|-----------|-----|-----|-------------|---------------------------------|-------|-----|-----------------------------|-------|----------|-------|--|------------|
| Mod.                   | Data Rate | NTX | CH. | Freq. (MHz) | Average Power Density (dBm/MHz) |       |     | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       |  | Pass /Fail |
|                        |           |     |     |             | Ant 1                           | Ant 2 | SUM | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |  |            |
| 11a                    | 6Mbps     | 1   | 52  | 5260        | 5.92                            | 5.28  |     | 9.40                        | 9.30  | 7.60     | 7.70  |  | Pass       |
| 11a                    | 6Mbps     | 1   | 60  | 5300        | 5.83                            | 5.12  |     | 9.40                        | 9.30  | 7.60     | 7.70  |  | Pass       |
| 11a                    | 6Mbps     | 1   | 64  | 5320        | 4.70                            | 4.08  |     | 9.40                        | 9.30  | 7.60     | 7.70  |  | Pass       |
| HT20                   | MCS0      | 1   | 52  | 5260        | 5.71                            | 5.06  |     | 9.40                        | 9.30  | 7.60     | 7.70  |  | Pass       |
| HT20                   | MCS0      | 1   | 60  | 5300        | 5.75                            | 4.87  |     | 9.40                        | 9.30  | 7.60     | 7.70  |  | Pass       |
| HT20                   | MCS0      | 1   | 64  | 5320        | 4.62                            | 3.92  |     | 9.40                        | 9.30  | 7.60     | 7.70  |  | Pass       |
| HT40                   | MCS0      | 1   | 54  | 5270        | 2.00                            | 1.11  |     | 9.40                        | 9.30  | 7.60     | 7.70  |  | Pass       |
| HT40                   | MCS0      | 1   | 62  | 5310        | 0.88                            | -0.95 |     | 9.40                        | 9.30  | 7.60     | 7.70  |  | Pass       |
| VHT80                  | MCS0      | 1   | 58  | 5290        | -5.37                           | -7.02 |     | 9.40                        | 9.30  | 7.60     | 7.70  |  | Pass       |



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

| Band III single antenna |           |     |     |             |                                 |       |                                   |       |                                    |       |                                   |       |                                      |       |   |       |
|-------------------------|-----------|-----|-----|-------------|---------------------------------|-------|-----------------------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|---|-------|
| Mod.                    | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth In U-NII 2C (MHz) |       | 26 dB Bandwidth In U-NII 2C (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       | 6 dB Bandwidth for Straddle Channel (MHz) |       |
|                         |           |     |     |             | Ant 1                           | Ant 2 | Ant 1                             | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 | Ant 1                                     | Ant 2 |
| 11a                     | 6Mbps     | 1   | 100 | 5500        | 16.95                           | 17.05 | 35.45                             | 35.30 | 23.29                              | 23.32 | 29.29                             | 29.32 | 23.98                                | 23.98 | ----                                      | ----  |
| 11a                     | 6Mbps     | 1   | 116 | 5580        | 16.95                           | 16.95 | 35.50                             | 35.70 | 23.29                              | 23.29 | 29.29                             | 29.29 | 23.98                                | 23.98 | ----                                      | ----  |
| 11a                     | 6Mbps     | 1   | 140 | 5700        | 16.85                           | 16.80 | 21.85                             | 21.50 | 23.27                              | 23.25 | 29.27                             | 29.25 | 23.98                                | 23.98 | ----                                      | ----  |
| HT20                    | MCS0      | 1   | 100 | 5500        | 17.75                           | 17.85 | 21.70                             | 26.95 | 23.49                              | 23.52 | 29.49                             | 29.52 | 23.98                                | 23.98 | ----                                      | ----  |
| HT20                    | MCS0      | 1   | 116 | 5580        | 17.85                           | 17.75 | 26.40                             | 26.35 | 23.52                              | 23.49 | 29.52                             | 29.49 | 23.98                                | 23.98 | ----                                      | ----  |
| HT20                    | MCS0      | 1   | 140 | 5700        | 17.75                           | 17.75 | 21.80                             | 21.75 | 23.49                              | 23.49 | 29.49                             | 29.49 | 23.98                                | 23.98 | ----                                      | ----  |
| HT40                    | MCS0      | 1   | 102 | 5510        | 36.60                           | 36.50 | 41.89                             | 41.94 | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 | ----                                      | ----  |
| HT40                    | MCS0      | 1   | 110 | 5550        | 36.70                           | 36.60 | 41.76                             | 42.03 | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 | ----                                      | ----  |
| HT40                    | MCS0      | 1   | 134 | 5670        | 36.60                           | 36.70 | 41.76                             | 57.96 | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 | ----                                      | ----  |
| VHT80                   | MCS0      | 1   | 106 | 5530        | 77.16                           | 77.40 | 82.56                             | 82.24 | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 | ----                                      | ----  |
| VHT80                   | MCS0      | 1   | 122 | 5610        | 77.16                           | 77.16 | 82.36                             | 82.41 | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 | ----                                      | ----  |

| Band III straddle channel single antenna |           |     |     |             |                                 |       |                                   |       |                                    |       |                                   |       |                                      |       |   |       |
|--|-----------|-----|-----|-------------|---------------------------------|-------|-----------------------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|---|-------|
| Mod.                                     | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth In U-NII 2C (MHz) |       | 26 dB Bandwidth In U-NII 2C (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       | 6 dB Bandwidth for Straddle Channel (MHz) |       |
|  |           |     |     |             | Ant 1                           | Ant 2 | Ant 1                             | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 | Ant 1                                     | Ant 2 |
| 11a                                      | 6Mbps     | 1   | 144 | 5720        | 13.65                           | 13.60 | 22.80                             | 24.30 | 22.35                              | 22.34 | 28.35                             | 28.34 | 23.98                                | 23.98 | 3.25                                      | 3.25  |
| HT20                                     | MCS0      | 1   | 144 | 5720        | 13.90                           | 14.00 | 20.30                             | 22.65 | 22.43                              | 22.46 | 28.43                             | 28.46 | 23.98                                | 23.98 | 3.85                                      | 3.85  |
| HT40                                     | MCS0      | 1   | 142 | 5710        | 33.40                           | 33.40 | 35.97                             | 49.02 | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 | 3.09                                      | 3.18  |
| VHT80                                    | MCS0      | 1   | 138 | 5690        | 73.76                           | 73.64 | 76.20                             | 76.13 | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 | 3.24                                      | 3.23  |

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

| FCC Band III single antenna |           |     |     |             |                               |       |     |                                 |       |          |       |                        |           |
|-----------------------------|-----------|-----|-----|-------------|-------------------------------|-------|-----|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.                        | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |     | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power Limit (dBm) | Pass/Fail |
|                             |           |     |     |             | Ant 1                         | Ant 2 | SUM | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |                        |           |
| 11a                         | 6Mbps     | 1   | 100 | 5500        | 15.70                         | 15.70 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| 11a                         | 6Mbps     | 1   | 116 | 5580        | 15.60                         | 15.60 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| 11a                         | 6Mbps     | 1   | 140 | 5700        | 12.10                         | 12.10 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| HT20                        | MCS0      | 1   | 100 | 5500        | 14.50                         | 15.70 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| HT20                        | MCS0      | 1   | 116 | 5580        | 15.60                         | 15.70 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| HT20                        | MCS0      | 1   | 140 | 5700        | 13.10                         | 13.10 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| HT40                        | MCS0      | 1   | 102 | 5510        | 14.60                         | 14.70 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| HT40                        | MCS0      | 1   | 110 | 5550        | 14.70                         | 14.60 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| HT40                        | MCS0      | 1   | 134 | 5670        | 14.60                         | 14.60 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| VHT20                       | MCS0      | 1   | 100 | 5500        | 14.40                         | 15.60 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| VHT20                       | MCS0      | 1   | 116 | 5580        | 15.50                         | 15.60 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| VHT20                       | MCS0      | 1   | 140 | 5700        | 13.00                         | 13.00 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| VHT40                       | MCS0      | 1   | 102 | 5510        | 14.50                         | 14.60 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| VHT40                       | MCS0      | 1   | 110 | 5550        | 14.60                         | 14.50 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| VHT40                       | MCS0      | 1   | 134 | 5670        | 14.50                         | 14.50 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| VHT80                       | MCS0      | 1   | 106 | 5530        | 10.80                         | 9.50  |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| VHT80                       | MCS0      | 1   | 122 | 5610        | 11.70                         | 11.60 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |

| FCC Band III straddle channel single antenna |           |     |     |             |                               |       |     |                                 |       |          |       |                        |           |
|--|-----------|-----|-----|-------------|-------------------------------|-------|-----|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) |       |     | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power Limit (dBm) | Pass/Fail |
|  |           |     |     |             | Ant 1                         | Ant 2 | SUM | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |                        |           |
| 11a  | 6Mbps     | 1   | 144 | 5720        | 15.60                         | 15.60 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| HT20   | MCS0      | 1   | 144 | 5720        | 15.60                         | 15.60 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| HT40   | MCS0      | 1   | 142 | 5710        | 14.60                         | 14.60 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| VHT20  | MCS0      | 1   | 144 | 5720        | 15.50                         | 15.50 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| VHT40  | MCS0      | 1   | 142 | 5710        | 14.50                         | 14.50 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |
| VHT80  | MCS0      | 1   | 138 | 5690        | 11.60                         | 11.60 |     | 22.68                           | 23.38 | 7.30     | 6.60  | 26.99                  | Pass      |

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

| Band III single antenna |           |     |     |             |                                 |       |     |                             |       |          |       |  |            |
|-------------------------|-----------|-----|-----|-------------|---------------------------------|-------|-----|-----------------------------|-------|----------|-------|--|------------|
| Mod.                    | Data Rate | NTX | CH. | Freq. (MHz) | Average Power Density (dBm/MHz) |       |     | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       |  | Pass /Fail |
|                         |           |     |     |             | Ant 1                           | Ant 2 | SUM | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |  |            |
| 11a                     | 6Mbps     | 1   | 100 | 5500        | 6.23                            | 5.80  |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |
| 11a                     | 6Mbps     | 1   | 116 | 5580        | 6.26                            | 5.76  |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |
| 11a                     | 6Mbps     | 1   | 140 | 5700        | 3.54                            | 2.01  |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |
| HT20                    | MCS0      | 1   | 100 | 5500        | 4.99                            | 5.63  |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |
| HT20                    | MCS0      | 1   | 116 | 5580        | 5.99                            | 5.54  |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |
| HT20                    | MCS0      | 1   | 140 | 5700        | 3.49                            | 2.76  |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |
| HT40                    | MCS0      | 1   | 102 | 5510        | 2.12                            | 1.76  |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |
| HT40                    | MCS0      | 1   | 110 | 5550        | 2.18                            | 1.77  |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |
| HT40                    | MCS0      | 1   | 134 | 5670        | 1.92                            | 1.87  |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |
| VHT80                   | MCS0      | 1   | 106 | 5530        | -4.87                           | -6.46 |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |
| VHT80                   | MCS0      | 1   | 122 | 5610        | -4.13                           | -4.95 |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |

| Band III straddle channel single antenna |           |     |     |             |                                 |       |     |                             |       |          |       |  |            |
|--|-----------|-----|-----|-------------|---------------------------------|-------|-----|-----------------------------|-------|----------|-------|--|------------|
| Mod.                                     | Data Rate | NTX | CH. | Freq. (MHz) | Average Power Density (dBm/MHz) |       |     | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       |  | Pass /Fail |
|  |           |     |     |             | Ant 1                           | Ant 2 | SUM | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |  |            |
| 11a                                      | 6Mbps     | 1   | 144 | 5720        | 6.45                            | 5.44  |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |
| HT20                                     | MCS0      | 1   | 144 | 5720        | 5.30                            | 5.41  |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |
| HT40                                     | MCS0      | 1   | 142 | 5710        | 1.55                            | 1.78  |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |
| VHT80                                    | MCS0      | 1   | 138 | 5690        | -4.47                           | -5.25 |     | 9.70                        | 10.40 | 7.30     | 6.60  |  | Pass       |



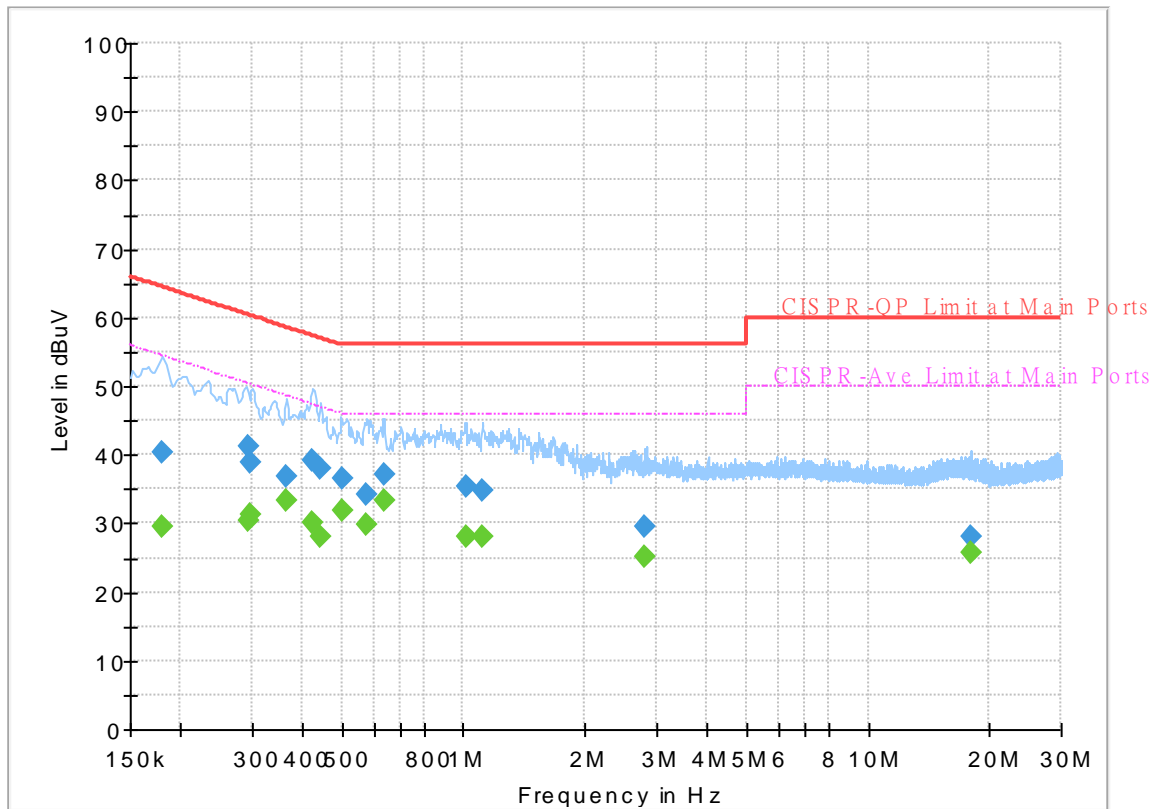
## Appendix B. AC Conducted Emission Test Results

|                 |         |                     |         |
|-----------------|---------|---------------------|---------|
| Test Engineer : | Tom Lee | Temperature :       | 21~25°C |
|                 |         | Relative Humidity : | 42~50%  |

# EUT Information

Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



## Final\_Result

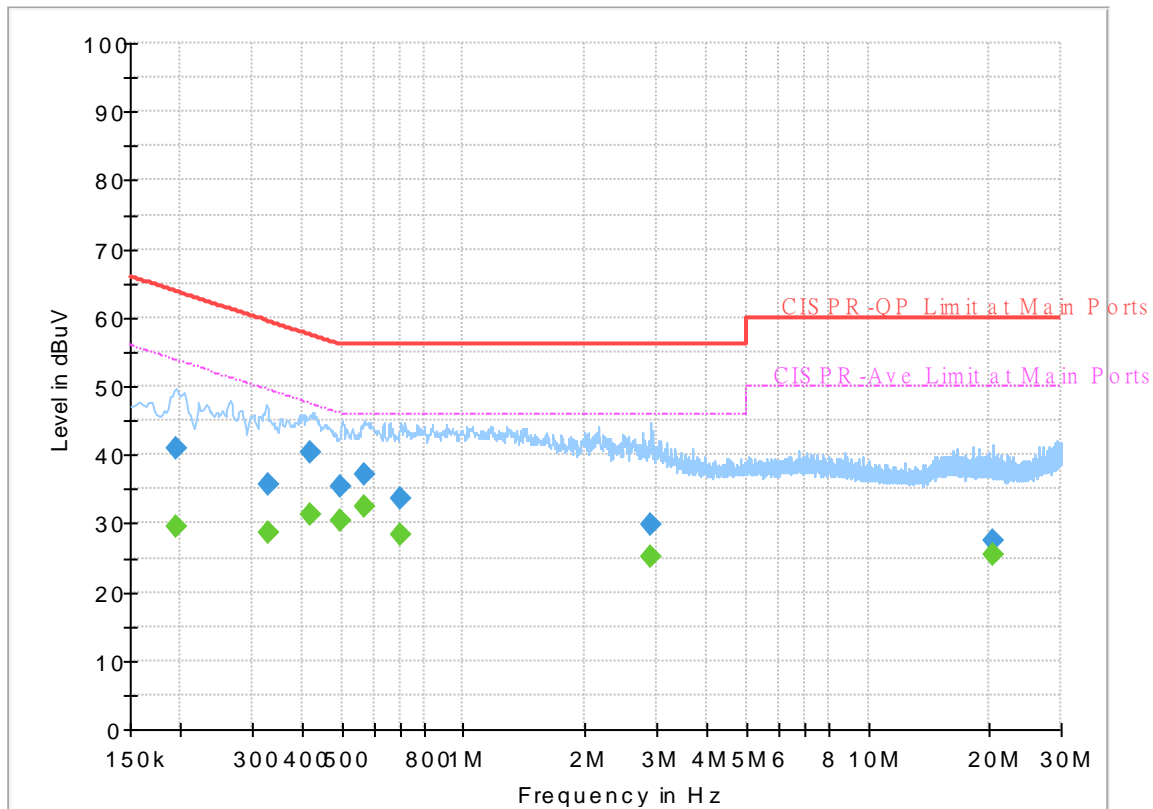
| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.179610        | ---              | 29.48           | 54.50        | 25.02       | L1   | OFF    | 19.5       |
| 0.179610        | 40.43            | ---             | 64.50        | 24.07       | L1   | OFF    | 19.5       |
| 0.294000        | ---              | 30.53           | 50.41        | 19.88       | L1   | OFF    | 19.5       |
| 0.294000        | 41.19            | ---             | 60.41        | 19.22       | L1   | OFF    | 19.5       |
| 0.296610        | ---              | 31.36           | 50.34        | 18.98       | L1   | OFF    | 19.5       |
| 0.296610        | 38.82            | ---             | 60.34        | 21.52       | L1   | OFF    | 19.5       |
| 0.364470        | ---              | 33.39           | 48.63        | 15.24       | L1   | OFF    | 19.5       |
| 0.364470        | 36.81            | ---             | 58.63        | 21.82       | L1   | OFF    | 19.5       |
| 0.423690        | ---              | 30.08           | 47.38        | 17.30       | L1   | OFF    | 19.5       |
| 0.423690        | 39.21            | ---             | 57.38        | 18.17       | L1   | OFF    | 19.5       |
| 0.444750        | ---              | 27.95           | 46.97        | 19.02       | L1   | OFF    | 19.5       |
| 0.444750        | 37.88            | ---             | 56.97        | 19.09       | L1   | OFF    | 19.5       |
| 0.501900        | ---              | 31.93           | 46.00        | 14.07       | L1   | OFF    | 19.5       |
| 0.501900        | 36.55            | ---             | 56.00        | 19.45       | L1   | OFF    | 19.5       |
| 0.573000        | ---              | 29.95           | 46.00        | 16.05       | L1   | OFF    | 19.5       |
| 0.573000        | 34.14            | ---             | 56.00        | 21.86       | L1   | OFF    | 19.5       |
| 0.634470        | ---              | 33.34           | 46.00        | 12.66       | L1   | OFF    | 19.5       |
| 0.634470        | 37.25            | ---             | 56.00        | 18.75       | L1   | OFF    | 19.5       |
| 1.012020        | ---              | 28.09           | 46.00        | 17.91       | L1   | OFF    | 19.6       |
| 1.012020        | 35.25            | ---             | 56.00        | 20.75       | L1   | OFF    | 19.6       |
| 1.110660        | ---              | 27.94           | 46.00        | 18.06       | L1   | OFF    | 19.6       |

|                  |              |              |              |              |           |            |             |
|------------------|--------------|--------------|--------------|--------------|-----------|------------|-------------|
| <b>1.110660</b>  | <b>34.81</b> | <b>---</b>   | <b>56.00</b> | <b>21.19</b> | <b>L1</b> | <b>OFF</b> | <b>19.6</b> |
| <b>2.811210</b>  | <b>---</b>   | <b>25.13</b> | <b>46.00</b> | <b>20.87</b> | <b>L1</b> | <b>OFF</b> | <b>19.7</b> |
| <b>2.811210</b>  | <b>29.59</b> | <b>---</b>   | <b>56.00</b> | <b>26.41</b> | <b>L1</b> | <b>OFF</b> | <b>19.7</b> |
| <b>18.017250</b> | <b>---</b>   | <b>25.61</b> | <b>50.00</b> | <b>24.39</b> | <b>L1</b> | <b>OFF</b> | <b>20.2</b> |
| <b>18.017250</b> | <b>28.21</b> | <b>---</b>   | <b>60.00</b> | <b>31.79</b> | <b>L1</b> | <b>OFF</b> | <b>20.2</b> |

# EUT Information

Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



## Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.194370        | ---              | 29.41           | 53.85        | 24.44       | N    | OFF    | 19.6       |
| 0.194370        | 40.82            | ---             | 63.85        | 23.03       | N    | OFF    | 19.6       |
| 0.329280        | ---              | 28.52           | 49.47        | 20.95       | N    | OFF    | 19.6       |
| 0.329280        | 35.57            | ---             | 59.47        | 23.90       | N    | OFF    | 19.6       |
| 0.420000        | ---              | 31.16           | 47.45        | 16.29       | N    | OFF    | 19.6       |
| 0.420000        | 40.47            | ---             | 57.45        | 16.98       | N    | OFF    | 19.6       |
| 0.496950        | ---              | 30.27           | 46.05        | 15.78       | N    | OFF    | 19.6       |
| 0.496950        | 35.39            | ---             | 56.05        | 20.66       | N    | OFF    | 19.6       |
| 0.570300        | ---              | 32.39           | 46.00        | 13.61       | N    | OFF    | 19.6       |
| 0.570300        | 37.00            | ---             | 56.00        | 19.00       | N    | OFF    | 19.6       |
| 0.696750        | ---              | 28.46           | 46.00        | 17.54       | N    | OFF    | 19.6       |
| 0.696750        | 33.54            | ---             | 56.00        | 22.46       | N    | OFF    | 19.6       |
| 2.904270        | ---              | 25.15           | 46.00        | 20.85       | N    | OFF    | 19.6       |
| 2.904270        | 29.95            | ---             | 56.00        | 26.05       | N    | OFF    | 19.6       |
| 20.476500       | ---              | 25.42           | 50.00        | 24.58       | N    | OFF    | 20.4       |
| 20.476500       | 27.55            | ---             | 60.00        | 32.45       | N    | OFF    | 20.4       |



### Appendix C. Radiated Spurious Emission

|                 |   |                     |         |
|-----------------|---|---------------------|---------|
| Test Engineer : | Jesse Wang, Stan Hsieh, Ken Wu, and Nick Yu | Temperature :       | 21~23°C |
|                 |   | Relative Humidity : | 49~53%  |

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

| WIFI                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                        |      | ( MHz )   | ( dBμV/m ) | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                           |      |           |            | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 36<br>5180MHz |      | 5148.72   | 60.48      | -13.52 | 74         | 49.94    | 34.4     | 11.56  | 35.42  | 182    | 350     | P       | H       |
|                             |      | 5150      | 47.55      | -6.45  | 54         | 37.01    | 34.4     | 11.56  | 35.42  | 182    | 350     | A       | H       |
|                             | *    | 5180      | 107.14     | -      | -          | 96.5     | 34.47    | 11.58  | 35.41  | 182    | 350     | P       | H       |
|                             | *    | 5180      | 99.83      | -      | -          | 89.19    | 34.47    | 11.58  | 35.41  | 182    | 350     | A       | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      | 5149.24   | 62.93      | -11.07 | 74         | 52.39    | 34.4     | 11.56  | 35.42  | 160    | 342     | P       | V       |
|                             |      | 5150      | 51.13      | -2.87  | 54         | 40.59    | 34.4     | 11.56  | 35.42  | 160    | 342     | A       | V       |
|                             | *    | 5180      | 110.86     | -      | -          | 100.22   | 34.47    | 11.58  | 35.41  | 160    | 342     | P       | V       |
|                             | *    | 5180      | 102.99     | -      | -          | 92.35    | 34.47    | 11.58  | 35.41  | 160    | 342     | A       | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 802.11a<br>CH 44<br>5220MHz |      | 5062.66   | 49.23      | -24.77 | 74         | 39.03    | 34.17    | 11.48  | 35.45  | 279    | 351     | P       | H       |
|                             |      | 5150      | 41.6       | -12.4  | 54         | 31.06    | 34.4     | 11.56  | 35.42  | 279    | 351     | A       | H       |
|                             | *    | 5220      | 107.71     | -      | -          | 96.99    | 34.5     | 11.62  | 35.4   | 279    | 351     | P       | H       |
|                             | *    | 5220      | 100.15     | -      | -          | 89.43    | 34.5     | 11.62  | 35.4   | 279    | 351     | A       | H       |
|                             |      | 5438.72   | 49.57      | -24.43 | 74         | 38.34    | 34.7     | 11.85  | 35.32  | 279    | 351     | P       | H       |
|                             |      | 5365.92   | 40.39      | -13.61 | 54         | 29.4     | 34.57    | 11.77  | 35.35  | 279    | 351     | A       | H       |
|                             |      | 5132.08   | 52.47      | -21.53 | 74         | 41.99    | 34.37    | 11.54  | 35.43  | 138    | 341     | P       | V       |
|                             |      | 5150      | 44.23      | -9.77  | 54         | 33.69    | 34.4     | 11.56  | 35.42  | 138    | 341     | A       | V       |
|                             | *    | 5220      | 111.37     | -      | -          | 100.65   | 34.5     | 11.62  | 35.4   | 138    | 341     | P       | V       |
|                             | *    | 5220      | 104        | -      | -          | 93.28    | 34.5     | 11.62  | 35.4   | 138    | 341     | A       | V       |
|                             |      | 5444.32   | 49.61      | -24.39 | 74         | 38.37    | 34.7     | 11.86  | 35.32  | 138    | 341     | P       | V       |
|                             |      | 5365.92   | 42         | -12    | 54         | 31.01    | 34.57    | 11.77  | 35.35  | 138    | 341     | A       | V       |





|                                      |   |         |        |        |    |       |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 48<br/>5240MHz</b> |   | 5141.44 | 50.27  | -23.73 | 74 | 39.74 | 34.4  | 11.55 | 35.42 | 181 | 351 | P | H |
|                                      |   | 5079.3  | 41.08  | -12.92 | 54 | 30.79 | 34.23 | 11.5  | 35.44 | 181 | 351 | A | H |
|                                      | *   | 5240    | 107.7  | -      | -  | 96.95 | 34.5  | 11.64 | 35.39 | 181 | 351 | P | H |
|                                      | *   | 5240    | 100.32 | -      | -  | 89.57 | 34.5  | 11.64 | 35.39 | 181 | 351 | A | H |
|                                      |   | 5400.36 | 49.42  | -24.58 | 74 | 38.24 | 34.7  | 11.81 | 35.33 | 181 | 351 | P | H |
|                                      |   | 5350.24 | 40.72  | -13.28 | 54 | 29.81 | 34.5  | 11.76 | 35.35 | 181 | 351 | A | H |
|                                      |   | 5135.72 | 52.07  | -21.93 | 74 | 41.57 | 34.37 | 11.55 | 35.42 | 137 | 342 | P | V |
|                                      |   | 5079.3  | 43.01  | -10.99 | 54 | 32.72 | 34.23 | 11.5  | 35.44 | 137 | 342 | A | V |
|                                      | *   | 5240    | 111.55 | -      | -  | 100.8 | 34.5  | 11.64 | 35.39 | 137 | 342 | P | V |
|                                      | *   | 5240    | 103.96 | -      | -  | 93.21 | 34.5  | 11.64 | 35.39 | 137 | 342 | A | V |
|                                      |   | 5350.52 | 50.34  | -23.66 | 74 | 39.43 | 34.5  | 11.76 | 35.35 | 137 | 342 | P | V |
|                                      |   | 5350    | 42.27  | -11.73 | 54 | 31.36 | 34.5  | 11.76 | 35.35 | 137 | 342 | A | V |
| <b>Remark</b>                        | <ol style="list-style-type: none"> <li>1. No other spurious found.</li> <li>2. All results are PASS against Peak and Average limit line.</li> </ol> |         |        |        |    |       |       |       |       |     |     |   |   |



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

| WIFI                        | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |   |
|-----------------------------|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|---|
| Ant. 1                      |   | ( MHz )   | ( dBµV/m ) | ( dB ) | Line ( dBµV/m ) | Level ( dBµV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |   |
| 802.11a<br>CH 36<br>5180MHz |   | 10360     | 46.41      | -21.79 | 68.2            | 50.39          | 37.47           | 17.58       | 59.03         | 100        | 0           | P            | H       |   |
|                             |   | 15540     | 47.69      | -26.31 | 74              | 42.71          | 40.1            | 21.65       | 56.77         | 100        | 0           | P            | H       |   |
|                             |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |   |
|                             |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |   |
|                             |   |           | 10360      | 44.32  | -23.88          | 68.2           | 48.3            | 37.47       | 17.58         | 59.03      | 100         | 0            | P       | V |
|                             |   |           | 15540      | 47.9   | -26.1           | 74             | 42.92           | 40.1        | 21.65         | 56.77      | 100         | 0            | P       | V |
|                             |   |           |            |        |                 |                |                 |             |               |            |             |              |         | V |
|                             |   |           |            |        |                 |                |                 |             |               |            |             |              |         | V |
| 802.11a<br>CH 44<br>5220MHz |   | 3915      | 50.67      | -23.33 | 74              | 42.62          | 33.3            | 10.11       | 35.36         | 208        | 53          | P            | H       |   |
|                             |   | 3915      | 38.6       | -15.4  | 54              | 30.55          | 33.3            | 10.11       | 35.36         | 208        | 53          | A            | H       |   |
|                             |   | 10440     | 46.73      | -21.47 | 68.2            | 51.09          | 37.53           | 17.65       | 59.54         | 100        | 0           | P            | H       |   |
|                             |   | 15660     | 47.8       | -26.2  | 74              | 42.32          | 40.45           | 21.73       | 56.7          | 100        | 0           | P            | H       |   |
|                             |   | 3915      | 48.94      | -25.06 | 74              | 40.89          | 33.3            | 10.11       | 35.36         | 100        | 0           | P            | V       |   |
|                             |   | 10440     | 45.8       | -22.4  | 68.2            | 50.16          | 37.53           | 17.65       | 59.54         | 100        | 0           | P            | V       |   |
|                             |   | 15660     | 49.02      | -24.98 | 74              | 43.54          | 40.45           | 21.73       | 56.7          | 100        | 0           | P            | V       |   |
|                             |   |           |            |        |                 |                |                 |             |               |            |             |              |         | V |
| 802.11a<br>CH 48<br>5240MHz |   | 10480     | 47.87      | -20.33 | 68.2            | 51.55          | 37.58           | 17.68       | 58.94         | 100        | 0           | P            | H       |   |
|                             |   | 15720     | 52.24      | -21.76 | 74              | 46.64          | 40.58           | 21.76       | 56.74         | 100        | 321         | P            | H       |   |
|                             |   | 15720     | 42.4       | -11.6  | 54              | 36.8           | 40.58           | 21.76       | 56.74         | 100        | 321         | A            | H       |   |
|                             |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |   |
|                             |   |           | 10480      | 47.95  | -20.25          | 68.2           | 51.63           | 37.58       | 17.68         | 58.94      | 100         | 0            | P       | V |
|                             |   |           | 15720      | 51.67  | -22.33          | 74             | 46.07           | 40.58       | 21.76         | 56.74      | 100         | 352          | P       | V |
|                             |   |           | 15720      | 41.03  | -12.97          | 54             | 35.43           | 40.58       | 21.76         | 56.74      | 100         | 352          | A       | V |
|                             |   |           |            |        |                 |                |                 |             |               |            |             |              |         | V |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |   |



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

| WIFI                                | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |   |
|-------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|---|
| Ant.                                |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |   |
| 1                                   |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |   |
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5145.86   | 58.21      | -15.79 | 74         | 47.68    | 34.4     | 11.55  | 35.42  | 183    | 351     | P       | H       |   |
|                                     |      | 5150      | 46.57      | -7.43  | 54         | 36.03    | 34.4     | 11.56  | 35.42  | 183    | 351     | A       | H       |   |
|                                     | *    | 5180      | 107.15     | -      | -          | 96.51    | 34.47    | 11.58  | 35.41  | 183    | 351     | P       | H       |   |
|                                     | *    | 5180      | 99.5       | -      | -          | 88.86    | 34.47    | 11.58  | 35.41  | 183    | 351     | A       | H       |   |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | H       |   |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | H       |   |
|                                     |      |           | 5144.3     | 61.75  | -12.25     | 74       | 51.22    | 34.4   | 11.55  | 35.42  | 157     | 343     | P       | V |
|                                     |      |           | 5150       | 49.9   | -4.1       | 54       | 39.36    | 34.4   | 11.56  | 35.42  | 157     | 343     | A       | V |
|                                     |      | *         | 5180       | 110.53 | -          | -        | 99.89    | 34.47  | 11.58  | 35.41  | 157     | 343     | P       | V |
|                                     |      | *         | 5180       | 103.14 | -          | -        | 92.5     | 34.47  | 11.58  | 35.41  | 157     | 343     | A       | V |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | V       |   |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | V       |   |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5142.48   | 50.87      | -23.13 | 74         | 40.34    | 34.4     | 11.55  | 35.42  | 208    | 354     | P       | H       |   |
|                                     |      | 5146.9    | 41.87      | -12.13 | 54         | 31.34    | 34.4     | 11.55  | 35.42  | 208    | 354     | A       | H       |   |
|                                     |      | * 5220    | 107.66     | -      | -          | 96.94    | 34.5     | 11.62  | 35.4   | 208    | 354     | P       | H       |   |
|                                     |      | * 5220    | 100.29     | -      | -          | 89.57    | 34.5     | 11.62  | 35.4   | 208    | 354     | A       | H       |   |
|                                     |      |           | 5365.08    | 49.68  | -24.32     | 74       | 38.69    | 34.57  | 11.77  | 35.35  | 208     | 354     | P       | H |
|                                     |      |           | 5375.44    | 40.76  | -13.24     | 54       | 29.75    | 34.57  | 11.78  | 35.34  | 208     | 354     | A       | H |
|                                     |      |           | 5140.92    | 52.23  | -21.77     | 74       | 41.7     | 34.4   | 11.55  | 35.42  | 137     | 340     | P       | V |
|                                     |      |           | 5149.76    | 44.03  | -9.97      | 54       | 33.49    | 34.4   | 11.56  | 35.42  | 137     | 340     | A       | V |
|                                     |      | *         | 5220       | 111.31 | -          | -        | 100.59   | 34.5   | 11.62  | 35.4   | 137     | 340     | P       | V |
|                                     |      | *         | 5220       | 103.76 | -          | -        | 93.04    | 34.5   | 11.62  | 35.4   | 137     | 340     | A       | V |
|                                     |      | 5359.76   | 49.66      | -24.34 | 74         | 38.74    | 34.5     | 11.77  | 35.35  | 137    | 340     | P       | V       |   |
|                                     |      | 5365.92   | 42.36      | -11.64 | 54         | 31.37    | 34.57    | 11.77  | 35.35  | 137    | 340     | A       | V       |   |



|   |   |         |        |        |    |        |       |       |       |     |     |   |   |
|---|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 48</b><br><b>5240MHz</b> |   | 5136.76 | 50.03  | -23.97 | 74 | 39.53  | 34.37 | 11.55 | 35.42 | 181 | 351 | P | H |
|   |   | 5078.52 | 41.23  | -12.77 | 54 | 30.94  | 34.23 | 11.5  | 35.44 | 181 | 351 | A | H |
|   | *   | 5240    | 107.52 | -      | -  | 96.77  | 34.5  | 11.64 | 35.39 | 181 | 351 | P | H |
|   | *   | 5240    | 100.33 | -      | -  | 89.58  | 34.5  | 11.64 | 35.39 | 181 | 351 | A | H |
|   |   | 5351.08 | 49.36  | -24.64 | 74 | 38.45  | 34.5  | 11.76 | 35.35 | 181 | 351 | P | H |
|   |   | 5350    | 40.64  | -13.36 | 54 | 29.73  | 34.5  | 11.76 | 35.35 | 181 | 351 | A | H |
|   |   | 5148.2  | 51.84  | -22.16 | 74 | 41.3   | 34.4  | 11.56 | 35.42 | 137 | 342 | P | V |
|   |   | 5078.78 | 43.38  | -10.62 | 54 | 33.09  | 34.23 | 11.5  | 35.44 | 137 | 342 | A | V |
|   | *   | 5240    | 111.38 | -      | -  | 100.63 | 34.5  | 11.64 | 35.39 | 137 | 342 | P | V |
|   | *   | 5240    | 104.02 | -      | -  | 93.27  | 34.5  | 11.64 | 35.39 | 137 | 342 | A | V |
|   |   | 5358.08 | 50.83  | -23.17 | 74 | 39.91  | 34.5  | 11.77 | 35.35 | 137 | 342 | P | V |
|   |   | 5364.24 | 42.35  | -11.65 | 54 | 31.36  | 34.57 | 11.77 | 35.35 | 137 | 342 | A | V |
| <b>Remark</b>   | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



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

| WIFI                                | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|-------------------------------------|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 1                              |   | ( MHz )   | ( dBμV/m ) | ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 36<br>5180MHz |   | 10360     | 45.1       | -23.1  | 68.2            | 49.08          | 37.47           | 17.58       | 59.03         | 100        | 0           | P            | H       |
|                                     |   | 15540     | 47.66      | -26.34 | 74              | 42.68          | 40.1            | 21.65       | 56.77         | 100        | 0           | P            | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   | 10360     | 44.82      | -23.38 | 68.2            | 48.8           | 37.47           | 17.58       | 59.03         | 100        | 0           | P            | V       |
|                                     |   | 15540     | 48.64      | -25.36 | 74              | 43.66          | 40.1            | 21.65       | 56.77         | 100        | 0           | P            | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |   | 10440     | 46.19      | -22.01 | 68.2            | 49.98          | 37.53           | 17.65       | 58.97         | 100        | 0           | P            | H       |
|                                     |   | 15660     | 48.47      | -25.53 | 74              | 43.04          | 40.45           | 21.73       | 56.75         | 100        | 0           | P            | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   | 10440     | 46.66      | -21.54 | 68.2            | 50.45          | 37.53           | 17.65       | 58.97         | 100        | 0           | P            | V       |
|                                     |   | 15660     | 49.49      | -24.51 | 74              | 44.06          | 40.45           | 21.73       | 56.75         | 100        | 0           | P            | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 10480     | 48.01      | -20.19 | 68.2            | 51.69          | 37.58           | 17.68       | 58.94         | 100        | 0           | P            | H       |
|                                     |   | 15720     | 52.32      | -21.68 | 74              | 46.72          | 40.58           | 21.76       | 56.74         | 100        | 318         | P            | H       |
|                                     |   | 15720     | 42.13      | -11.87 | 54              | 36.53          | 40.58           | 21.76       | 56.74         | 100        | 318         | A            | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   | 10480     | 45.71      | -22.49 | 68.2            | 49.39          | 37.58           | 17.68       | 58.94         | 100        | 0           | P            | V       |
|                                     |   | 15720     | 51.64      | -22.36 | 74              | 46.04          | 40.58           | 21.76       | 56.74         | 100        | 353         | P            | V       |
|                                     |   | 15720     | 40.78      | -13.22 | 54              | 35.18          | 40.58           | 21.76       | 56.74         | 100        | 353         | A            | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |



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

| WIFI                                | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                                   |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 38<br>5190MHz |   | 5145.86   | 53.68      | -20.32 | 74         | 43.15    | 34.4     | 11.55  | 35.42  | 184    | 350     | P       | H       |
|                                     |   | 5150      | 47.26      | -6.74  | 54         | 36.72    | 34.4     | 11.56  | 35.42  | 184    | 350     | A       | H       |
|                                     | *   | 5190      | 100.7      | -      | -          | 90.05    | 34.47    | 11.59  | 35.41  | 184    | 350     | P       | H       |
|                                     | *   | 5190      | 93.58      | -      | -          | 82.93    | 34.47    | 11.59  | 35.41  | 184    | 350     | A       | H       |
|                                     |   | 5449.08   | 48.6       | -25.4  | 74         | 37.35    | 34.7     | 11.87  | 35.32  | 184    | 350     | P       | H       |
|                                     |   | 5459.72   | 39.68      | -14.32 | 54         | 28.41    | 34.7     | 11.88  | 35.31  | 184    | 350     | A       | H       |
|                                     |   | 5149.76   | 59.42      | -14.58 | 74         | 48.88    | 34.4     | 11.56  | 35.42  | 145    | 342     | P       | V       |
|                                     |   | 5150      | 51.34      | -2.66  | 54         | 40.8     | 34.4     | 11.56  | 35.42  | 145    | 342     | A       | V       |
|                                     | *   | 5190      | 104.02     | -      | -          | 93.37    | 34.47    | 11.59  | 35.41  | 145    | 342     | P       | V       |
|                                     | *   | 5190      | 97.17      | -      | -          | 86.52    | 34.47    | 11.59  | 35.41  | 145    | 342     | A       | V       |
|                                     |   | 5353.6    | 50.03      | -23.97 | 74         | 39.12    | 34.5     | 11.76  | 35.35  | 145    | 342     | P       | V       |
|                                     |   | 5359.76   | 40.73      | -13.27 | 54         | 29.81    | 34.5     | 11.77  | 35.35  | 145    | 342     | A       | V       |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |   | 5145.34   | 51.67      | -22.33 | 74         | 41.14    | 34.4     | 11.55  | 35.42  | 172    | 350     | P       | H       |
|                                     |   | 5150      | 42.62      | -11.38 | 54         | 32.08    | 34.4     | 11.56  | 35.42  | 172    | 350     | A       | H       |
|                                     | *   | 5230      | 103.09     | -      | -          | 92.35    | 34.5     | 11.63  | 35.39  | 172    | 350     | P       | H       |
|                                     | *   | 5230      | 96.1       | -      | -          | 85.36    | 34.5     | 11.63  | 35.39  | 172    | 350     | A       | H       |
|                                     |   | 5416.6    | 49.37      | -24.63 | 74         | 38.17    | 34.7     | 11.83  | 35.33  | 172    | 350     | P       | H       |
|                                     |   | 5359.2    | 40.69      | -13.31 | 54         | 29.77    | 34.5     | 11.77  | 35.35  | 172    | 350     | A       | H       |
|                                     |   | 5138.58   | 54         | -20    | 74         | 43.5     | 34.37    | 11.55  | 35.42  | 174    | 343     | P       | V       |
|                                     |   | 5150      | 45.26      | -8.74  | 54         | 34.72    | 34.4     | 11.56  | 35.42  | 174    | 343     | A       | V       |
|                                     | *   | 5230      | 107.27     | -      | -          | 96.53    | 34.5     | 11.63  | 35.39  | 174    | 343     | P       | V       |
|                                     | *   | 5230      | 100.01     | -      | -          | 89.27    | 34.5     | 11.63  | 35.39  | 174    | 343     | A       | V       |
|                                     |   | 5350      | 50.65      | -23.35 | 74         | 39.74    | 34.5     | 11.76  | 35.35  | 174    | 343     | P       | V       |
|                                     |   | 5351.64   | 42.42      | -11.58 | 54         | 31.51    | 34.5     | 11.76  | 35.35  | 174    | 343     | A       | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 1                              |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 38<br>5190MHz |   | 10380     | 45.28      | -22.92 | 68.2       | 49.22    | 37.48    | 17.6   | 59.02  | 100    | 0       | P       | H       |
|                                     |   | 15570     | 47.43      | -26.57 | 74         | 42.32    | 40.2     | 21.68  | 56.77  | 100    | 0       | P       | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   | 10380     | 45.65      | -22.55 | 68.2       | 49.59    | 37.48    | 17.6   | 59.02  | 100    | 0       | P       | V       |
|                                     |   | 15570     | 48.04      | -25.96 | 74         | 42.93    | 40.2     | 21.68  | 56.77  | 100    | 0       | P       | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |   | 10460     | 45.83      | -22.37 | 68.2       | 49.58    | 37.55    | 17.66  | 58.96  | 100    | 0       | P       | H       |
|                                     |   | 15690     | 47.94      | -26.06 | 74         | 42.39    | 40.55    | 21.75  | 56.75  | 100    | 0       | P       | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   | 10460     | 45.68      | -22.52 | 68.2       | 49.43    | 37.55    | 17.66  | 58.96  | 100    | 0       | P       | V       |
|                                     |   | 15690     | 48.11      | -25.89 | 74         | 42.56    | 40.55    | 21.75  | 56.75  | 100    | 0       | P       | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI  | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.  |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1   |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| <b>802.11ac</b><br><b>VHT80</b><br><b>CH 42</b><br><b>5210MHz</b> |   | 5142.22   | 57.44      | -16.56 | 74         | 46.91    | 34.4     | 11.55  | 35.42  | 189    | 356     | P       | H       |
|   |   | 5145.34   | 48.28      | -5.72  | 54         | 37.75    | 34.4     | 11.55  | 35.42  | 189    | 356     | A       | H       |
|   | *   | 5210      | 96.02      | -      | -          | 85.31    | 34.5     | 11.61  | 35.4   | 189    | 356     | P       | H       |
|   | *   | 5210      | 88.17      | -      | -          | 77.46    | 34.5     | 11.61  | 35.4   | 189    | 356     | A       | H       |
|   |   | 5441.8    | 49.28      | -24.72 | 74         | 38.04    | 34.7     | 11.86  | 35.32  | 189    | 356     | P       | H       |
|   |   | 5350.52   | 40.83      | -13.17 | 54         | 29.92    | 34.5     | 11.76  | 35.35  | 189    | 356     | A       | H       |
|   |   | 5144.56   | 60.47      | -13.53 | 74         | 49.94    | 34.4     | 11.55  | 35.42  | 222    | 341     | P       | V       |
|   |   | 5150      | 52.22      | -1.78  | 54         | 41.68    | 34.4     | 11.56  | 35.42  | 222    | 341     | A       | V       |
|   | *   | 5210      | 99.74      | -      | -          | 89.03    | 34.5     | 11.61  | 35.4   | 222    | 341     | P       | V       |
|   | *   | 5210      | 92.54      | -      | -          | 81.83    | 34.5     | 11.61  | 35.4   | 222    | 341     | A       | V       |
|   | 5366.48   | 50.13     | -23.87     | 74     | 39.14      | 34.57    | 11.77    | 35.35  | 222    | 341    | P       | V       |         |
|   | 5350.52   | 42.5      | -11.5      | 54     | 31.59      | 34.5     | 11.76    | 35.35  | 222    | 341    | A       | V       |         |
| <b>Remark</b>   | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |





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

| WIFI                                  | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|---------------------------------------|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 1                                |   | ( MHz )   | ( dBμV/m ) | ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 10420     | 46.28      | -21.92 | 68.2            | 50.12          | 37.52           | 17.63       | 58.99         | 100        | 0           | P            | H       |
|                                       |   | 15630     | 46.75      | -27.25 | 74              | 41.4           | 40.4            | 21.71       | 56.76         | 100        | 0           | P            | H       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                       |   | 10420     | 45.28      | -22.92 | 68.2            | 49.12          | 37.52           | 17.63       | 58.99         | 100        | 0           | P            | V       |
|                                       |   | 15630     | 46.73      | -27.27 | 74              | 41.38          | 40.4            | 21.71       | 56.76         | 100        | 0           | P            | V       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |



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

| WIFI                        | Note                        | Frequency | Level      | Over         | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|-----------------------------|-----------------------------|-----------|------------|--------------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 1                      |                             | ( MHz )   | ( dBµV/m ) | Limit ( dB ) | Line ( dBµV/m ) | Level ( dBµV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |                             | 5147.35   | 50.58      | -23.42       | 74              | 40.04          | 34.4            | 11.56       | 35.42         | 190        | 350         | P            | H       |
|                             |                             | 5098.7    | 41.27      | -12.73       | 54              | 30.9           | 34.3            | 11.51       | 35.44         | 190        | 350         | A            | H       |
|                             | *                           | 5260      | 107.16     | -            | -               | 96.31          | 34.57           | 11.66       | 35.38         | 190        | 350         | P            | H       |
|                             | *                           | 5260      | 99.8       | -            | -               | 88.95          | 34.57           | 11.66       | 35.38         | 190        | 350         | A            | H       |
|                             |                             | 5427.12   | 49.63      | -24.37       | 74              | 38.41          | 34.7            | 11.84       | 35.32         | 190        | 350         | P            | H       |
|                             |                             | 5350.56   | 40.87      | -13.13       | 54              | 29.96          | 34.5            | 11.76       | 35.35         | 190        | 350         | A            | H       |
|                             |                             | 5022.05   | 50.52      | -23.48       | 74              | 40.43          | 34.1            | 11.45       | 35.46         | 140        | 337         | P            | V       |
|                             |                             | 5099.05   | 42.8       | -11.2        | 54              | 32.43          | 34.3            | 11.51       | 35.44         | 140        | 337         | A            | V       |
|                             | *                           | 5260      | 111.26     | -            | -               | 100.41         | 34.57           | 11.66       | 35.38         | 140        | 337         | P            | V       |
|                             | *                           | 5260      | 103.52     | -            | -               | 92.67          | 34.57           | 11.66       | 35.38         | 140        | 337         | A            | V       |
|                             |                             | 5365.92   | 52.36      | -21.64       | 74              | 41.37          | 34.57           | 11.77       | 35.35         | 140        | 337         | P            | V       |
|                             |                             | 5350.32   | 42.81      | -11.19       | 54              | 31.9           | 34.5            | 11.76       | 35.35         | 140        | 337         | A            | V       |
|                             | 802.11a<br>CH 60<br>5300MHz |           | 5099.05    | 50.39        | -23.61          | 74             | 40.02           | 34.3        | 11.51         | 35.44      | 182         | 351          | P       |
|                             |                             | 5139.3    | 41.26      | -12.74       | 54              | 30.76          | 34.37           | 11.55       | 35.42         | 182        | 351         | A            | H       |
| *                           |                             | 5300      | 108.18     | -            | -               | 97.15          | 34.7            | 11.7        | 35.37         | 182        | 351         | P            | H       |
| *                           |                             | 5300      | 100.21     | -            | -               | 89.18          | 34.7            | 11.7        | 35.37         | 182        | 351         | A            | H       |
|                             |                             | 5351.52   | 56.02      | -17.98       | 74              | 45.11          | 34.5            | 11.76       | 35.35         | 182        | 351         | P            | H       |
|                             |                             | 5350.08   | 44.88      | -9.12        | 54              | 33.97          | 34.5            | 11.76       | 35.35         | 182        | 351         | A            | H       |
|                             |                             | 5149.1    | 52.32      | -21.68       | 74              | 41.78          | 34.4            | 11.56       | 35.42         | 136        | 344         | P            | V       |
|                             |                             | 5138.6    | 42.97      | -11.03       | 54              | 32.47          | 34.37           | 11.55       | 35.42         | 136        | 344         | A            | V       |
| *                           |                             | 5300      | 111.9      | -            | -               | 100.87         | 34.7            | 11.7        | 35.37         | 136        | 344         | P            | V       |
| *                           |                             | 5300      | 103.76     | -            | -               | 92.73          | 34.7            | 11.7        | 35.37         | 136        | 344         | A            | V       |
|                             |                             | 5352.96   | 59.84      | -14.16       | 74              | 48.93          | 34.5            | 11.76       | 35.35         | 136        | 344         | P            | V       |
|                             | 5350.08                     | 47.03     | -6.97      | 54           | 36.12           | 34.5           | 11.76           | 35.35       | 136           | 344        | A           | V            |         |



|  |   |         |        |        |    |       |       |       |       |     |     |   |   |
|--|---|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 64</b><br><b>5320MHz</b> | *   | 5320    | 106.13 | -      | -  | 95.13 | 34.63 | 11.73 | 35.36 | 152 | 351 | P | H |
|  | *   | 5320    | 98.71  | -      | -  | 87.71 | 34.63 | 11.73 | 35.36 | 152 | 351 | A | H |
|  |   | 5351.2  | 59.61  | -14.39 | 74 | 48.7  | 34.5  | 11.76 | 35.35 | 152 | 351 | P | H |
|  |   | 5350.08 | 47.02  | -6.98  | 54 | 36.11 | 34.5  | 11.76 | 35.35 | 152 | 351 | A | H |
|  |   |         |        |        |    |       |       |       |       |     |     |   | H |
|  |   |         |        |        |    |       |       |       |       |     |     |   | H |
|  | *   | 5320    | 109.9  | -      | -  | 98.9  | 34.63 | 11.73 | 35.36 | 157 | 346 | P | V |
|  | *   | 5320    | 102.36 | -      | -  | 91.36 | 34.63 | 11.73 | 35.36 | 157 | 346 | A | V |
|  |   | 5360.8  | 60.46  | -13.54 | 74 | 49.47 | 34.57 | 11.77 | 35.35 | 157 | 346 | P | V |
|  |   | 5350.08 | 50.22  | -3.78  | 54 | 39.31 | 34.5  | 11.76 | 35.35 | 157 | 346 | A | V |
|  |   |         |        |        |    |       |       |       |       |     |     |   | V |
|  |   |         |        |        |    |       |       |       |       |     |     |   | V |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



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

| WIFI                        | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 1                      |   | ( MHz )   | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |   | 10520     | 46.51      | -21.69 | 68.2       | 50.13    | 37.6     | 17.7   | 58.92  | 100    | 0       | P       | H       |
|                             |   | 15780     | 49.61      | -24.39 | 74         | 44.02    | 40.53    | 21.8   | 56.74  | 100    | 0       | P       | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |   | 10520     | 46.14      | -22.06 | 68.2       | 49.76    | 37.6     | 17.7   | 58.92  | 100    | 0       | P       | V       |
|                             |   | 15780     | 49.72      | -24.28 | 74         | 44.13    | 40.53    | 21.8   | 56.74  | 100    | 0       | P       | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 60<br>5300MHz |   | 3975      | 50.8       | -23.2  | 74         | 42.79    | 33.2     | 10.18  | 35.37  | 221    | 51      | P       | H       |
|                             |   | 3975      | 40.21      | -13.79 | 54         | 32.2     | 33.2     | 10.18  | 35.37  | 221    | 51      | A       | H       |
|                             |   | 10600     | 47.65      | -26.35 | 74         | 51.54    | 37.6     | 17.76  | 59.25  | 100    | 0       | P       | H       |
|                             |   | 15900     | 52.29      | -21.71 | 74         | 46.66    | 40.8     | 21.89  | 57.06  | 122    | 315     | P       | H       |
|                             |   | 15900     | 42.76      | -11.24 | 54         | 37.13    | 40.8     | 21.89  | 57.06  | 122    | 315     | A       | H       |
|                             |   | 3975      | 50.61      | -23.39 | 74         | 42.6     | 33.2     | 10.18  | 35.37  | 200    | 329     | P       | V       |
|                             |   | 3975      | 40.05      | -13.95 | 54         | 32.04    | 33.2     | 10.18  | 35.37  | 200    | 329     | A       | V       |
|                             |   | 10600     | 47.12      | -26.88 | 74         | 51.01    | 37.6     | 17.76  | 59.25  | 100    | 0       | P       | V       |
|                             |   | 15900     | 51.42      | -22.58 | 74         | 45.79    | 40.8     | 21.89  | 57.06  | 400    | 324     | P       | V       |
|                             |   | 15900     | 42.44      | -11.56 | 54         | 36.81    | 40.8     | 21.89  | 57.06  | 400    | 324     | A       | V       |
| 802.11a<br>CH 64<br>5320MHz |   | 10640     | 49.84      | -24.16 | 74         | 53.28    | 37.63    | 17.79  | 58.86  | 100    | 0       | P       | H       |
|                             |   | 15960     | 49.19      | -24.81 | 74         | 43.17    | 40.8     | 21.93  | 56.71  | 100    | 0       | P       | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |   | 10640     | 46.57      | -27.43 | 74         | 50.01    | 37.63    | 17.79  | 58.86  | 100    | 0       | P       | V       |
|                             |   | 15960     | 49.75      | -24.25 | 74         | 43.73    | 40.8     | 21.93  | 56.71  | 100    | 0       | P       | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         | V       |         |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                                   |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5079.1    | 50.92      | -23.08 | 74         | 40.63    | 34.23    | 11.5   | 35.44  | 160    | 352     | P       | H       |
|                                     |      | 5098.7    | 40.85      | -13.15 | 54         | 30.48    | 34.3     | 11.51  | 35.44  | 160    | 352     | A       | H       |
|                                     | *    | 5260      | 107.08     | -      | -          | 96.23    | 34.57    | 11.66  | 35.38  | 160    | 352     | P       | H       |
|                                     | *    | 5260      | 99.67      | -      | -          | 88.82    | 34.57    | 11.66  | 35.38  | 160    | 352     | A       | H       |
|                                     |      | 5362.32   | 49.65      | -24.35 | 74         | 38.66    | 34.57    | 11.77  | 35.35  | 160    | 352     | P       | H       |
|                                     |      | 5360.4    | 40.9       | -13.1  | 54         | 29.98    | 34.5     | 11.77  | 35.35  | 160    | 352     | A       | H       |
|                                     |      | 5045.5    | 51.49      | -22.51 | 74         | 41.37    | 34.1     | 11.47  | 35.45  | 167    | 344     | P       | V       |
|                                     |      | 5099.05   | 42.94      | -11.06 | 54         | 32.57    | 34.3     | 11.51  | 35.44  | 167    | 344     | A       | V       |
|                                     | *    | 5260      | 111.06     | -      | -          | 100.21   | 34.57    | 11.66  | 35.38  | 167    | 344     | P       | V       |
|                                     | *    | 5260      | 103.71     | -      | -          | 92.86    | 34.57    | 11.66  | 35.38  | 167    | 344     | A       | V       |
|                                     |      | 5372.4    | 51.26      | -22.74 | 74         | 40.25    | 34.57    | 11.78  | 35.34  | 167    | 344     | P       | V       |
|                                     |      | 5353.68   | 42.66      | -11.34 | 54         | 31.75    | 34.5     | 11.76  | 35.35  | 167    | 344     | A       | V       |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5122.85   | 50.2       | -23.8  | 74         | 39.73    | 34.37    | 11.53  | 35.43  | 154    | 351     | P       | H       |
|                                     |      | 5138.6    | 40.91      | -13.09 | 54         | 30.41    | 34.37    | 11.55  | 35.42  | 154    | 351     | A       | H       |
|                                     | *    | 5300      | 107.43     | -      | -          | 96.4     | 34.7     | 11.7   | 35.37  | 154    | 351     | P       | H       |
|                                     | *    | 5300      | 99.74      | -      | -          | 88.71    | 34.7     | 11.7   | 35.37  | 154    | 351     | A       | H       |
|                                     |      | 5354.88   | 57.36      | -16.64 | 74         | 46.45    | 34.5     | 11.76  | 35.35  | 154    | 351     | P       | H       |
|                                     |      | 5350.08   | 43.43      | -10.57 | 54         | 32.52    | 34.5     | 11.76  | 35.35  | 154    | 351     | A       | H       |
|                                     |      | 5107.45   | 51.72      | -22.28 | 74         | 41.3     | 34.33    | 11.52  | 35.43  | 165    | 344     | P       | V       |
|                                     |      | 5138.25   | 42.92      | -11.08 | 54         | 32.42    | 34.37    | 11.55  | 35.42  | 165    | 344     | A       | V       |
|                                     | *    | 5300      | 111.25     | -      | -          | 100.22   | 34.7     | 11.7   | 35.37  | 165    | 344     | P       | V       |
|                                     | *    | 5300      | 103.67     | -      | -          | 92.64    | 34.7     | 11.7   | 35.37  | 165    | 344     | A       | V       |
|                                     |      | 5358.48   | 58.85      | -15.15 | 74         | 47.93    | 34.5     | 11.77  | 35.35  | 165    | 344     | P       | V       |
|                                     |      | 5350.08   | 45.83      | -8.17  | 54         | 34.92    | 34.5     | 11.76  | 35.35  | 165    | 344     | A       | V       |



|   |   |         |        |        |    |       |       |       |       |     |     |   |   |
|---|---|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n<br/>HT20<br/>CH 64<br/>5320MHz</b> | *   | 5320    | 106.39 | -      | -  | 95.39 | 34.63 | 11.73 | 35.36 | 152 | 351 | P | H |
|   | *   | 5320    | 98.78  | -      | -  | 87.78 | 34.63 | 11.73 | 35.36 | 152 | 351 | A | H |
|   |   | 5358.72 | 58.85  | -15.15 | 74 | 47.93 | 34.5  | 11.77 | 35.35 | 152 | 351 | P | H |
|   |   | 5350.72 | 45.69  | -8.31  | 54 | 34.78 | 34.5  | 11.76 | 35.35 | 152 | 351 | A | H |
|   |   |         |        |        |    |       |       |       |       |     |     |   | H |
|   |   |         |        |        |    |       |       |       |       |     |     |   | H |
|   | *   | 5320    | 109.9  | -      | -  | 98.9  | 34.63 | 11.73 | 35.36 | 156 | 346 | P | V |
|   | *   | 5320    | 102.53 | -      | -  | 91.53 | 34.63 | 11.73 | 35.36 | 156 | 346 | A | V |
|   |   | 5350.72 | 65.93  | -8.07  | 74 | 55.02 | 34.5  | 11.76 | 35.35 | 156 | 346 | P | V |
|   |   | 5350.56 | 48.88  | -5.12  | 54 | 37.97 | 34.5  | 11.76 | 35.35 | 156 | 346 | A | V |
|   |   |         |        |        |    |       |       |       |       |     |     | V |   |
|   |   |         |        |        |    |       |       |       |       |     |     | V |   |
| <b>Remark</b>                                 | <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> </ol> |         |        |        |    |       |       |       |       |     |     |   |   |



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

| WIFI                                | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 1                              |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 52<br>5260MHz |   | 10520     | 45.14      | -23.06 | 68.2       | 48.76    | 37.6     | 17.7   | 58.92  | 100    | 0       | P       | H       |
|                                     |   | 15780     | 46.73      | -27.27 | 74         | 41.14    | 40.53    | 21.8   | 56.74  | 100    | 0       | P       | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   | 10520     | 44.32      | -23.88 | 68.2       | 47.94    | 37.6     | 17.7   | 58.92  | 100    | 0       | P       | V       |
|                                     |   | 15780     | 47.44      | -26.56 | 74         | 41.85    | 40.53    | 21.8   | 56.74  | 100    | 0       | P       | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |   | 10600     | 45.27      | -28.73 | 74         | 48.79    | 37.6     | 17.76  | 58.88  | 100    | 0       | P       | H       |
|                                     |   | 15900     | 49.06      | -24.94 | 74         | 43.09    | 40.8     | 21.89  | 56.72  | 100    | 0       | P       | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   | 10600     | 44.12      | -29.88 | 74         | 47.64    | 37.6     | 17.76  | 58.88  | 100    | 0       | P       | V       |
|                                     |   | 15900     | 49.02      | -24.98 | 74         | 43.05    | 40.8     | 21.89  | 56.72  | 100    | 0       | P       | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |   | 10640     | 43.67      | -30.33 | 74         | 47.11    | 37.63    | 17.79  | 58.86  | 100    | 0       | P       | H       |
|                                     |   | 15960     | 47.74      | -26.26 | 74         | 41.72    | 40.8     | 21.93  | 56.71  | 100    | 0       | P       | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   | 10640     | 44.57      | -29.43 | 74         | 48.01    | 37.63    | 17.79  | 58.86  | 100    | 0       | P       | V       |
|                                     |   | 15960     | 48.59      | -25.41 | 74         | 42.57    | 40.8     | 21.93  | 56.71  | 100    | 0       | P       | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                                   |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 54<br>5270MHz |   | 5128.45   | 50.54      | -23.46 | 74         | 40.06    | 34.37    | 11.54  | 35.43  | 160    | 351     | P       | H       |
|                                     |   | 5120.05   | 41         | -13    | 54         | 30.57    | 34.33    | 11.53  | 35.43  | 160    | 351     | A       | H       |
|                                     | *   | 5270      | 103.01     | -      | -          | 92.15    | 34.57    | 11.67  | 35.38  | 160    | 351     | P       | H       |
|                                     | *   | 5270      | 96.02      | -      | -          | 85.16    | 34.57    | 11.67  | 35.38  | 160    | 351     | A       | H       |
|                                     |   | 5353.2    | 51.6       | -22.4  | 74         | 40.69    | 34.5     | 11.76  | 35.35  | 160    | 351     | P       | H       |
|                                     |   | 5350.08   | 42.62      | -11.38 | 54         | 31.71    | 34.5     | 11.76  | 35.35  | 160    | 351     | A       | H       |
|                                     |   | 5120.4    | 54.34      | -19.66 | 74         | 43.91    | 34.33    | 11.53  | 35.43  | 152    | 344     | P       | V       |
|                                     |   | 5103.95   | 42.93      | -11.07 | 54         | 32.54    | 34.3     | 11.52  | 35.43  | 152    | 344     | A       | V       |
|                                     | *   | 5270      | 107.26     | -      | -          | 96.4     | 34.57    | 11.67  | 35.38  | 152    | 344     | P       | V       |
|                                     | *   | 5270      | 99.94      | -      | -          | 89.08    | 34.57    | 11.67  | 35.38  | 152    | 344     | A       | V       |
|                                     |   | 5360.64   | 54.91      | -19.09 | 74         | 43.92    | 34.57    | 11.77  | 35.35  | 152    | 344     | P       | V       |
|                                     |   | 5350.08   | 44.98      | -9.02  | 54         | 34.07    | 34.5     | 11.76  | 35.35  | 152    | 344     | A       | V       |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |   | 5126      | 50.04      | -23.96 | 74         | 39.56    | 34.37    | 11.54  | 35.43  | 152    | 351     | P       | H       |
|                                     |   | 5126      | 40.65      | -13.35 | 54         | 30.17    | 34.37    | 11.54  | 35.43  | 152    | 351     | A       | H       |
|                                     | *   | 5310      | 101.87     | -      | -          | 90.88    | 34.63    | 11.72  | 35.36  | 152    | 351     | P       | H       |
|                                     | *   | 5310      | 95.01      | -      | -          | 84.02    | 34.63    | 11.72  | 35.36  | 152    | 351     | A       | H       |
|                                     |   | 5356.08   | 57.32      | -16.68 | 74         | 46.41    | 34.5     | 11.76  | 35.35  | 152    | 351     | P       | H       |
|                                     |   | 5350.08   | 48.5       | -5.5   | 54         | 37.59    | 34.5     | 11.76  | 35.35  | 152    | 351     | A       | H       |
|                                     |   | 5143.15   | 50.63      | -23.37 | 74         | 40.1     | 34.4     | 11.55  | 35.42  | 145    | 344     | P       | V       |
|                                     |   | 5141.4    | 42.45      | -11.55 | 54         | 31.92    | 34.4     | 11.55  | 35.42  | 145    | 344     | A       | V       |
|                                     | *   | 5310      | 105.32     | -      | -          | 94.33    | 34.63    | 11.72  | 35.36  | 145    | 344     | P       | V       |
|                                     | *   | 5310      | 98.64      | -      | -          | 87.65    | 34.63    | 11.72  | 35.36  | 145    | 344     | A       | V       |
|                                     |   | 5350.08   | 62.19      | -11.81 | 74         | 51.28    | 34.5     | 11.76  | 35.35  | 145    | 344     | P       | V       |
|                                     |   | 5350.08   | 51.77      | -2.23  | 54         | 40.86    | 34.5     | 11.76  | 35.35  | 145    | 344     | A       | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |





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

| WIFI                                | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|-------------------------------------|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 1                              |   | ( MHz )   | ( dBμV/m ) | ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 54<br>5270MHz |   | 10540     | 43.55      | -24.65 | 68.2            | 47.15          | 37.6            | 17.71       | 58.91         | 100        | 0           | P            | H       |
|                                     |   | 15810     | 46.08      | -27.92 | 74              | 40.49          | 40.5            | 21.82       | 56.73         | 100        | 0           | P            | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   | 10540     | 43.35      | -24.85 | 68.2            | 46.95          | 37.6            | 17.71       | 58.91         | 100        | 0           | P            | V       |
|                                     |   | 15810     | 46.12      | -27.88 | 74              | 40.53          | 40.5            | 21.82       | 56.73         | 100        | 0           | P            | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |   | 10620     | 43.65      | -30.35 | 74              | 47.12          | 37.62           | 17.78       | 58.87         | 100        | 0           | P            | H       |
|                                     |   | 15930     | 46.79      | -27.21 | 74              | 40.79          | 40.8            | 21.91       | 56.71         | 100        | 0           | P            | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   | 10620     | 43.04      | -30.96 | 74              | 46.51          | 37.62           | 17.78       | 58.87         | 100        | 0           | P            | V       |
|                                     |   | 15930     | 47.13      | -26.87 | 74              | 41.13          | 40.8            | 21.91       | 56.71         | 100        | 0           | P            | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |



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

| WIFI  | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.  |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1   |   | ( MHz )   | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| <b>802.11ac</b><br><b>VHT80</b><br><b>CH 58</b><br><b>5290MHz</b> |   | 5110.95   | 52.73      | -21.27 | 74         | 42.31    | 34.33    | 11.52  | 35.43  | 205    | 357     | P       | H       |
|   |   | 5149.8    | 43.48      | -10.52 | 54         | 32.94    | 34.4     | 11.56  | 35.42  | 205    | 357     | A       | H       |
|   | *   | 5290      | 96.09      | -      | -          | 85.14    | 34.63    | 11.69  | 35.37  | 205    | 357     | P       | H       |
|   | *   | 5290      | 89.18      | -      | -          | 78.23    | 34.63    | 11.69  | 35.37  | 205    | 357     | A       | H       |
|   |   | 5359.2    | 58.34      | -15.66 | 74         | 47.42    | 34.5     | 11.77  | 35.35  | 205    | 357     | P       | H       |
|   |   | 5350.08   | 48.22      | -5.78  | 54         | 37.31    | 34.5     | 11.76  | 35.35  | 205    | 357     | A       | H       |
|   |   | 5129.85   | 55.71      | -18.29 | 74         | 45.23    | 34.37    | 11.54  | 35.43  | 194    | 338     | P       | V       |
|   |   | 5149.45   | 46.49      | -7.51  | 54         | 35.95    | 34.4     | 11.56  | 35.42  | 194    | 338     | A       | V       |
|   | *   | 5290      | 100.49     | -      | -          | 89.54    | 34.63    | 11.69  | 35.37  | 194    | 338     | P       | V       |
|   | *   | 5290      | 92.94      | -      | -          | 81.99    | 34.63    | 11.69  | 35.37  | 194    | 338     | A       | V       |
|   | 5356.56   | 60.8      | -13.2      | 74     | 49.89      | 34.5     | 11.76    | 35.35  | 194    | 338    | P       | V       |         |
|   | 5350.08   | 51.75     | -2.25      | 54     | 40.84      | 34.5     | 11.76    | 35.35  | 194    | 338    | A       | V       |         |
| <b>Remark</b>   | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                  | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|---------------------------------------|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 1                                |   | ( MHz )   | ( dBμV/m ) | ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 10580     | 43.13      | -25.07 | 68.2            | 46.67          | 37.6            | 17.75       | 58.89         | 100        | 0           | P            | H       |
|                                       |   | 15870     | 46.56      | -27.44 | 74              | 40.67          | 40.74           | 21.87       | 56.72         | 100        | 0           | P            | H       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                       |   | 10580     | 42.49      | -25.71 | 68.2            | 46.03          | 37.6            | 17.75       | 58.89         | 100        | 0           | P            | V       |
|                                       |   | 15870     | 46.15      | -27.85 | 74              | 40.26          | 40.74           | 21.87       | 56.72         | 100        | 0           | P            | V       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |



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

| WIFI                         | Note | Frequency | Level      | Over         | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |   |
|------------------------------|------|-----------|------------|--------------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|---|
| Ant. 1                       |      | ( MHz )   | ( dBμV/m ) | Limit ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |   |
| 802.11a<br>CH 100<br>5500MHz |      | 5457.04   | 59.42      | -14.58       | 74              | 48.15          | 34.7            | 11.88       | 35.31         | 171        | 353         | P            | H       |   |
|                              |      | 5466.8    | 63.54      | -4.66        | 68.2            | 52.16          | 34.8            | 11.89       | 35.31         | 171        | 353         | P            | H       |   |
|                              |      | 5460      | 45.68      | -8.32        | 54              | 34.41          | 34.7            | 11.88       | 35.31         | 171        | 353         | A            | H       |   |
|                              | *    | 5500      | 108.03     | -            | -               | 96.4           | 35              | 11.93       | 35.3          | 171        | 353         | P            | H       |   |
|                              | *    | 5500      | 100.27     | -            | -               | 88.64          | 35              | 11.93       | 35.3          | 171        | 353         | A            | H       |   |
|                              |      |           |            |              |                 |                |                 |             |               |            |             |              |         | H |
|                              |      |           | 5458.32    | 62.5         | -11.5           | 74             | 51.23           | 34.7        | 11.88         | 35.31      | 144         | 345          | P       | V |
|                              |      |           | 5468.88    | 65.39        | -2.81           | 68.2           | 54.01           | 34.8        | 11.89         | 35.31      | 144         | 345          | P       | V |
|                              |      |           | 5460       | 48           | -6              | 54             | 36.73           | 34.7        | 11.88         | 35.31      | 144         | 345          | A       | V |
|                              | *    |           | 5500       | 110.36       | -               | -              | 98.73           | 35          | 11.93         | 35.3       | 144         | 345          | P       | V |
|                              | *    |           | 5500       | 102.9        | -               | -              | 91.27           | 35          | 11.93         | 35.3       | 144         | 345          | A       | V |
|                              |      |           |            |              |                 |                |                 |             |               |            |             |              |         | V |
| 802.11a<br>CH 116<br>5580MHz |      | 5431.6    | 49.92      | -24.08       | 74              | 38.69          | 34.7            | 11.85       | 35.32         | 163        | 354         | P            | H       |   |
|                              |      | 5463.04   | 48.62      | -19.58       | 68.2            | 37.25          | 34.8            | 11.88       | 35.31         | 163        | 354         | P            | H       |   |
|                              |      | 5422.96   | 40.48      | -13.52       | 54              | 29.27          | 34.7            | 11.84       | 35.33         | 163        | 354         | A            | H       |   |
|                              | *    | 5580      | 108.57     | -            | -               | 96.99          | 34.87           | 12.02       | 35.31         | 163        | 354         | P            | H       |   |
|                              | *    | 5580      | 100.79     | -            | -               | 89.21          | 34.87           | 12.02       | 35.31         | 163        | 354         | A            | H       |   |
|                              |      |           | 5757.755   | 50.61        | -17.59          | 68.2           | 38.64           | 35          | 12.3          | 35.33      | 163         | 354          | P       | H |
|                              |      |           | 5408.08    | 50.96        | -23.04          | 74             | 39.77           | 34.7        | 11.82         | 35.33      | 156         | 346          | P       | V |
|                              |      |           | 5460.01    | 48.78        | -19.42          | 68.2           | 37.51           | 34.7        | 11.88         | 35.31      | 156         | 346          | P       | V |
|                              |      |           | 5423.2     | 42.14        | -11.86          | 54             | 30.93           | 34.7        | 11.84         | 35.33      | 156         | 346          | A       | V |
|                              | *    |           | 5580       | 110.56       | -               | -              | 98.98           | 34.87       | 12.02         | 35.31      | 156         | 346          | P       | V |
|                              | *    |           | 5580       | 102.87       | -               | -              | 91.29           | 34.87       | 12.02         | 35.31      | 156         | 346          | A       | V |
|                              |      |           | 5728.775   | 50.89        | -17.31          | 68.2           | 38.96           | 35          | 12.25         | 35.32      | 156         | 346          | P       | V |



|   |   |         |        |       |      |       |    |       |       |     |     |   |   |
|---|---|---------|--------|-------|------|-------|----|-------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 140</b><br><b>5700MHz</b> | *   | 5700    | 105.73 | -     | -    | 93.85 | 35 | 12.2  | 35.32 | 162 | 353 | P | H |
|   | *   | 5700    | 98.29  | -     | -    | 86.41 | 35 | 12.2  | 35.32 | 162 | 353 | A | H |
|   |   | 5726.92 | 61.07  | -7.13 | 68.2 | 49.14 | 35 | 12.25 | 35.32 | 162 | 353 | P | H |
|   |   |         |        |       |      |       |    |       |       |     |     |   | H |
|   |   |         |        |       |      |       |    |       |       |     |     |   | H |
|   |   |         |        |       |      |       |    |       |       |     |     |   | H |
|   | *   | 5700    | 106.69 | -     | -    | 94.81 | 35 | 12.2  | 35.32 | 159 | 333 | P | V |
|   | *   | 5700    | 99.35  | -     | -    | 87.47 | 35 | 12.2  | 35.32 | 159 | 333 | A | V |
|   |   | 5725.8  | 64.92  | -3.28 | 68.2 | 52.99 | 35 | 12.25 | 35.32 | 159 | 333 | P | V |
|   |   |         |        |       |      |       |    |       |       |     |     |   | V |
|   |   |         |        |       |      |       |    |       |       |     |     | V |   |
|   |   |         |        |       |      |       |    |       |       |     |     | V |   |
| <b>Remark</b>                                     | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |       |    |       |       |     |     |   |   |



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

| WIFI                         | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 1                       |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 100<br>5500MHz |   | 11000     | 45.16      | -28.84 | 74         | 47.9     | 37.9     | 18.05  | 58.69  | 100    | 0       | P       | H       |
|                              |   | 16500     | 51.8       | -16.4  | 68.2       | 44.24    | 41.6     | 22.38  | 56.42  | 100    | 0       | P       | H       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |   | 11000     | 46.32      | -27.68 | 74         | 49.06    | 37.9     | 18.05  | 58.69  | 100    | 0       | P       | V       |
|                              |   | 16500     | 53.55      | -14.65 | 68.2       | 45.99    | 41.6     | 22.38  | 56.42  | 100    | 0       | P       | V       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 116<br>5580MHz |   | 4185      | 54.59      | -19.41 | 74         | 46.01    | 33.37    | 10.58  | 35.37  | 176    | 358     | P       | H       |
|                              |   | 4185      | 47.08      | -6.92  | 54         | 38.5     | 33.37    | 10.58  | 35.37  | 176    | 358     | A       | H       |
|                              |   | 11160     | 49.29      | -24.71 | 74         | 51.22    | 37.9     | 18.19  | 58.02  | 100    | 0       | P       | H       |
|                              |   | 16740     | 53.33      | -14.87 | 68.2       | 44.89    | 42.36    | 22.58  | 56.5   | 100    | 0       | P       | H       |
|                              |   | 4185      | 56.02      | -17.98 | 74         | 47.44    | 33.37    | 10.58  | 35.37  | 200    | 335     | P       | V       |
|                              |   | 4185      | 48.23      | -5.77  | 54         | 39.65    | 33.37    | 10.58  | 35.37  | 200    | 335     | A       | V       |
|                              |   | 11160     | 48.65      | -25.35 | 74         | 50.58    | 37.9     | 18.19  | 58.02  | 100    | 0       | P       | V       |
|                              |   | 16740     | 52.68      | -15.52 | 68.2       | 44.24    | 42.36    | 22.58  | 56.5   | 100    | 0       | P       | V       |
| 802.11a<br>CH 140<br>5700MHz |   | 4276      | 52.53      | -21.47 | 74         | 43.6     | 33.63    | 10.66  | 35.36  | 159    | 353     | P       | H       |
|                              |   | 4276      | 42.75      | -11.25 | 54         | 33.82    | 33.63    | 10.66  | 35.36  | 159    | 353     | A       | H       |
|                              |   | 11400     | 44.42      | -29.58 | 74         | 45.65    | 38.1     | 18.41  | 57.74  | 100    | 0       | P       | H       |
|                              |   | 17100     | 51.79      | -16.41 | 68.2       | 43.19    | 42       | 22.87  | 56.27  | 100    | 0       | P       | H       |
|                              |   | 4276      | 52.43      | -21.57 | 74         | 43.5     | 33.63    | 10.66  | 35.36  | 159    | 333     | P       | V       |
|                              |   | 4276      | 43.31      | -10.69 | 54         | 34.38    | 33.63    | 10.66  | 35.36  | 159    | 333     | A       | V       |
|                              |   | 11400     | 43.76      | -30.24 | 74         | 44.99    | 38.1     | 18.41  | 57.74  | 100    | 0       | P       | V       |
|                              |   | 17100     | 51.19      | -17.01 | 68.2       | 42.59    | 42       | 22.87  | 56.27  | 100    | 0       | P       | V       |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                 | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |   |
|--------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|---|
| Ant.                                 |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |   |
| 1                                    |      | ( MHz )   | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |   |
| 802.11n<br>HT20<br>CH 100<br>5500MHz |      | 5457.68   | 54.15      | -19.85 | 74         | 42.88    | 34.7     | 11.88  | 35.31  | 201    | 354     | P       | H       |   |
|                                      |      | 5464.72   | 60.38      | -7.82  | 68.2       | 49.01    | 34.8     | 11.88  | 35.31  | 201    | 354     | P       | H       |   |
|                                      |      | 5460      | 43.55      | -10.45 | 54         | 32.28    | 34.7     | 11.88  | 35.31  | 201    | 354     | A       | H       |   |
|                                      | *    | 5500      | 106.72     | -      | -          | 95.09    | 35       | 11.93  | 35.3   | 201    | 354     | P       | H       |   |
|                                      | *    | 5500      | 98.83      | -      | -          | 87.2     | 35       | 11.93  | 35.3   | 201    | 354     | A       | H       |   |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                      |      |           | 5457.2     | 58.29  | -15.71     | 74       | 47.02    | 34.7   | 11.88  | 35.31  | 204     | 352     | P       | V |
|                                      |      |           | 5469.2     | 62.13  | -6.07      | 68.2     | 50.75    | 34.8   | 11.89  | 35.31  | 204     | 352     | P       | V |
|                                      |      |           | 5460       | 45.5   | -8.5       | 54       | 34.23    | 34.7   | 11.88  | 35.31  | 204     | 352     | A       | V |
|                                      |      | *         | 5500       | 109.53 | -          | -        | 97.9     | 35     | 11.93  | 35.3   | 204     | 352     | P       | V |
|                                      | *    | 5500      | 101.83     | -      | -          | 90.2     | 35       | 11.93  | 35.3   | 204    | 352     | A       | V       |   |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         | V       |   |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5426.56   | 49.49      | -24.51 | 74         | 38.27    | 34.7     | 11.84  | 35.32  | 194    | 354     | P       | H       |   |
|                                      |      | 5461.84   | 48.69      | -19.51 | 68.2       | 37.42    | 34.7     | 11.88  | 35.31  | 194    | 354     | P       | H       |   |
|                                      |      | 5434      | 40.56      | -13.44 | 54         | 29.33    | 34.7     | 11.85  | 35.32  | 194    | 354     | A       | H       |   |
|                                      | *    | 5580      | 107.68     | -      | -          | 96.1     | 34.87    | 12.02  | 35.31  | 194    | 354     | P       | H       |   |
|                                      | *    | 5580      | 100.48     | -      | -          | 88.9     | 34.87    | 12.02  | 35.31  | 194    | 354     | A       | H       |   |
|                                      |      |           | 5755.865   | 50.47  | -17.73     | 68.2     | 38.5     | 35     | 12.3   | 35.33  | 194     | 354     | P       | H |
|                                      |      |           | 5365.36    | 51.77  | -22.23     | 74       | 40.78    | 34.57  | 11.77  | 35.35  | 202     | 346     | P       | V |
|                                      |      |           | 5468.56    | 51.21  | -16.99     | 68.2     | 39.83    | 34.8   | 11.89  | 35.31  | 202     | 346     | P       | V |
|                                      |      |           | 5419.36    | 42.2   | -11.8      | 54       | 31       | 34.7   | 11.83  | 35.33  | 202     | 346     | A       | V |
|                                      |      | *         | 5580       | 109.78 | -          | -        | 98.2     | 34.87  | 12.02  | 35.31  | 202     | 346     | P       | V |
|                                      | *    | 5580      | 101.98     | -      | -          | 90.4     | 34.87    | 12.02  | 35.31  | 202    | 346     | A       | V       |   |
|                                      |      | 5759.96   | 53.07      | -15.13 | 68.2       | 41.1     | 35       | 12.3   | 35.33  | 202    | 346     | P       | V       |   |



|                                      |   |         |        |       |      |       |    |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|-------|------|-------|----|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 140<br>5700MHz | *   | 5700    | 105.81 | -     | -    | 93.93 | 35 | 12.2  | 35.32 | 214 | 355 | P | H |
|                                      | *   | 5700    | 98.58  | -     | -    | 86.7  | 35 | 12.2  | 35.32 | 214 | 355 | A | H |
|                                      |   | 5728.04 | 61.91  | -6.29 | 68.2 | 49.98 | 35 | 12.25 | 35.32 | 214 | 355 | P | H |
|                                      |   |         |        |       |      |       |    |       |       |     |     |   | H |
|                                      |   |         |        |       |      |       |    |       |       |     |     |   | H |
|                                      |   |         |        |       |      |       |    |       |       |     |     |   | H |
|                                      | *   | 5700    | 107.59 | -     | -    | 95.71 | 35 | 12.2  | 35.32 | 202 | 356 | P | V |
|                                      | *   | 5700    | 100.08 | -     | -    | 88.2  | 35 | 12.2  | 35.32 | 202 | 356 | A | V |
|                                      |   | 5731.96 | 62.45  | -5.75 | 68.2 | 50.51 | 35 | 12.26 | 35.32 | 202 | 356 | P | V |
|                                      |   |         |        |       |      |       |    |       |       |     |     |   | V |
|                                      |   |         |        |       |      |       |    |       |       |     |     | V |   |
|                                      |   |         |        |       |      |       |    |       |       |     |     | V |   |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |       |    |       |       |     |     |   |   |





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

| WIFI                                 | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 1                               |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 100<br>5500MHz |   | 4125      | 50.94      | -23.06 | 74         | 42.55    | 33.3     | 10.46  | 35.37  | 201    | 48      | P       | H       |
|                                      |   | 4125      | 41.46      | -12.54 | 54         | 33.07    | 33.3     | 10.46  | 35.37  | 201    | 48      | A       | H       |
|                                      |   | 11000     | 46.25      | -27.75 | 74         | 48.99    | 37.9     | 18.05  | 58.69  | 100    | 0       | P       | H       |
|                                      |   | 16500     | 52.09      | -16.11 | 68.2       | 44.53    | 41.6     | 22.38  | 56.42  | 100    | 0       | P       | H       |
|                                      |   | 4125      | 51.18      | -22.82 | 74         | 42.79    | 33.3     | 10.46  | 35.37  | 229    | 335     | P       | V       |
|                                      |   | 4125      | 42.09      | -11.91 | 54         | 33.7     | 33.3     | 10.46  | 35.37  | 229    | 335     | A       | V       |
|                                      |   | 11000     | 45.41      | -28.59 | 74         | 48.15    | 37.9     | 18.05  | 58.69  | 100    | 0       | P       | V       |
|                                      |   | 16500     | 52.81      | -15.39 | 68.2       | 45.25    | 41.6     | 22.38  | 56.42  | 100    | 0       | P       | V       |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |   | 4185      | 51.08      | -22.92 | 74         | 42.5     | 33.37    | 10.58  | 35.37  | 195    | 47      | P       | H       |
|                                      |   | 4185      | 42.98      | -11.02 | 54         | 34.4     | 33.37    | 10.58  | 35.37  | 195    | 47      | A       | H       |
|                                      |   | 11160     | 44.6       | -29.4  | 74         | 46.82    | 37.9     | 18.19  | 58.31  | 100    | 0       | P       | H       |
|                                      |   | 16740     | 52.72      | -15.48 | 68.2       | 44.11    | 42.36    | 22.58  | 56.33  | 100    | 0       | P       | H       |
|                                      |   | 4185      | 51.53      | -22.47 | 74         | 42.95    | 33.37    | 10.58  | 35.37  | 221    | 332     | P       | V       |
|                                      |   | 4185      | 43.28      | -10.72 | 54         | 34.7     | 33.37    | 10.58  | 35.37  | 221    | 332     | A       | V       |
|                                      |   | 11160     | 46.54      | -27.46 | 74         | 48.76    | 37.9     | 18.19  | 58.31  | 100    | 0       | P       | V       |
|                                      |   | 16740     | 50.35      | -17.85 | 68.2       | 41.74    | 42.36    | 22.58  | 56.33  | 100    | 0       | P       | V       |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |   | 4275      | 50.33      | -23.67 | 74         | 41.41    | 33.63    | 10.65  | 35.36  | 214    | 336     | P       | H       |
|                                      |   | 4275      | 42.22      | -11.78 | 54         | 33.3     | 33.63    | 10.65  | 35.36  | 214    | 38      | A       | H       |
|                                      |   | 11400     | 44.87      | -29.13 | 74         | 46.1     | 38.1     | 18.41  | 57.74  | 100    | 0       | P       | H       |
|                                      |   | 17100     | 50.34      | -17.86 | 68.2       | 41.74    | 42       | 22.87  | 56.27  | 100    | 0       | P       | H       |
|                                      |   | 4275      | 51.25      | -22.75 | 74         | 42.33    | 33.63    | 10.65  | 35.36  | 214    | 336     | P       | V       |
|                                      |   | 4275      | 43.62      | -10.38 | 54         | 34.7     | 33.63    | 10.65  | 35.36  | 214    | 336     | A       | V       |
|                                      |   | 11400     | 45.04      | -28.96 | 74         | 46.27    | 38.1     | 18.41  | 57.74  | 100    | 0       | P       | V       |
|                                      |   | 17100     | 50.85      | -17.35 | 68.2       | 42.25    | 42       | 22.87  | 56.27  | 100    | 0       | P       | V       |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                 | Note     | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--------------------------------------|----------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                 |          |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                                    |          | ( MHz )   | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 102<br>5510MHz |          | 5458      | 59         | -15    | 74         | 47.73    | 34.7     | 11.88  | 35.31  | 208    | 353     | P       | H       |
|                                      |          | 5469.52   | 59.8       | -8.4   | 68.2       | 48.42    | 34.8     | 11.89  | 35.31  | 208    | 353     | P       | H       |
|                                      |          | 5459.92   | 48.56      | -5.44  | 54         | 37.29    | 34.7     | 11.88  | 35.31  | 208    | 353     | A       | H       |
|                                      | *        | 5510      | 103.74     | -      | -          | 92.1     | 35       | 11.94  | 35.3   | 208    | 353     | P       | H       |
|                                      | *        | 5510      | 96.04      | -      | -          | 84.4     | 35       | 11.94  | 35.3   | 208    | 353     | A       | H       |
|                                      |          | 5759.645  | 49.36      | -18.84 | 68.2       | 37.39    | 35       | 12.3   | 35.33  | 208    | 353     | P       | H       |
|                                      |          | 5459.44   | 59.5       | -14.5  | 74         | 48.23    | 34.7     | 11.88  | 35.31  | 203    | 345     | P       | V       |
|                                      |          | 5462.08   | 62.92      | -5.28  | 68.2       | 51.65    | 34.7     | 11.88  | 35.31  | 203    | 345     | P       | V       |
|                                      |          | 5459.92   | 51.04      | -2.96  | 54         | 39.77    | 34.7     | 11.88  | 35.31  | 203    | 345     | A       | V       |
|                                      | *        | 5510      | 105.65     | -      | -          | 94.01    | 35       | 11.94  | 35.3   | 203    | 345     | P       | V       |
|                                      | *        | 5510      | 98.74      | -      | -          | 87.1     | 35       | 11.94  | 35.3   | 203    | 345     | A       | V       |
|                                      | 5751.14  | 51.19     | -17.01     | 68.2   | 39.23      | 35       | 12.29    | 35.33  | 203    | 345    | P       | V       |         |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |          | 5420.32   | 50.16      | -23.84 | 74         | 38.96    | 34.7     | 11.83  | 35.33  | 214    | 355     | P       | H       |
|                                      |          | 5466.64   | 50.35      | -17.85 | 68.2       | 38.97    | 34.8     | 11.89  | 35.31  | 214    | 355     | P       | H       |
|                                      |          | 5459.68   | 41.68      | -12.32 | 54         | 30.41    | 34.7     | 11.88  | 35.31  | 214    | 355     | A       | H       |
|                                      | *        | 5550      | 104.38     | -      | -          | 92.91    | 34.8     | 11.98  | 35.31  | 214    | 355     | P       | H       |
|                                      | *        | 5550      | 96.68      | -      | -          | 85.21    | 34.8     | 11.98  | 35.31  | 214    | 355     | A       | H       |
|                                      |          | 5756.81   | 49.48      | -18.72 | 68.2       | 37.51    | 35       | 12.3   | 35.33  | 214    | 355     | P       | H       |
|                                      |          | 5383.84   | 52.08      | -21.92 | 74         | 41       | 34.63    | 11.79  | 35.34  | 203    | 345     | P       | V       |
|                                      |          | 5468.8    | 51.98      | -16.22 | 68.2       | 40.6     | 34.8     | 11.89  | 35.31  | 203    | 345     | P       | V       |
|                                      |          | 5456.32   | 43.2       | -10.8  | 54         | 31.94    | 34.7     | 11.87  | 35.31  | 203    | 345     | A       | V       |
|                                      | *        | 5550      | 105.88     | -      | -          | 94.41    | 34.8     | 11.98  | 35.31  | 203    | 345     | P       | V       |
|                                      | *        | 5550      | 98.18      | -      | -          | 86.71    | 34.8     | 11.98  | 35.31  | 203    | 345     | A       | V       |
|                                      | 5759.645 | 51.69     | -16.51     | 68.2   | 39.72      | 35       | 12.3     | 35.33  | 203    | 345    | P       | V       |         |



|  |   |         |        |        |       |       |       |       |       |     |     |   |   |
|--|---|---------|--------|--------|-------|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n<br/>HT40<br/>CH 134<br/>5670MHz</b> |   | 5371    | 49.8   | -24.2  | 74    | 38.79 | 34.57 | 11.78 | 35.34 | 220 | 356 | P | H |
|  |   | 5470    | 48.39  | -19.81 | 68.2  | 37.01 | 34.8  | 11.89 | 35.31 | 220 | 356 | P | H |
|  |   | 5459.9  | 40.86  | -13.14 | 54    | 29.59 | 34.7  | 11.88 | 35.31 | 220 | 356 | A | H |
|  | *   | 5670    | 104.29 | -      | -     | 92.6  | 34.85 | 12.16 | 35.32 | 220 | 356 | P | H |
|  | *   | 5670    | 96.49  | -      | -     | 84.8  | 34.85 | 12.16 | 35.32 | 220 | 356 | A | H |
|  |   | 5727.55 | 61.9   | -6.3   | 68.2  | 49.97 | 35    | 12.25 | 35.32 | 220 | 356 | P | H |
|  |   | 5456.4  | 50.35  | -23.65 | 74    | 39.09 | 34.7  | 11.87 | 35.31 | 231 | 341 | P | V |
|  |   | 5464.1  | 50.41  | -17.79 | 68.2  | 39.04 | 34.8  | 11.88 | 35.31 | 231 | 341 | P | V |
|  |   | 5437.5  | 42.09  | -11.91 | 54    | 30.86 | 34.7  | 11.85 | 35.32 | 231 | 341 | A | V |
|  | *   | 5670    | 105.99 | -      | -     | 94.3  | 34.85 | 12.16 | 35.32 | 231 | 341 | P | V |
|  | *   | 5670    | 98.19  | -      | -     | 86.5  | 34.85 | 12.16 | 35.32 | 231 | 341 | A | V |
|  | 5727.375  | 65.82   | -2.38  | 68.2   | 53.89 | 35    | 12.25 | 35.32 | 231   | 341 | P   | V |   |
| <b>Remark</b>                                  | <ol style="list-style-type: none"> <li>1. No other spurious found.</li> <li>2. All results are PASS against Peak and Average limit line.</li> </ol> |         |        |        |       |       |       |       |       |     |     |   |   |



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

| WIFI                                 | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 1                               |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 102<br>5510MHz |   | 11020     | 44.3       | -29.7  | 74         | 46.98    | 37.9     | 18.06  | 58.64  | 100    | 0       | P       | H       |
|                                      |   | 16530     | 49.54      | -18.66 | 68.2       | 41.88    | 41.67    | 22.4   | 56.41  | 100    | 0       | P       | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   | 11020     | 43.88      | -30.12 | 74         | 46.56    | 37.9     | 18.06  | 58.64  | 100    | 0       | P       | V       |
|                                      |   | 16530     | 50.29      | -17.91 | 68.2       | 42.63    | 41.67    | 22.4   | 56.41  | 100    | 0       | P       | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |   | 11100     | 43.64      | -30.36 | 74         | 46.06    | 37.9     | 18.13  | 58.45  | 100    | 0       | P       | H       |
|                                      |   | 16650     | 51.17      | -17.03 | 68.2       | 42.94    | 42.1     | 22.5   | 56.37  | 100    | 0       | P       | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   | 11100     | 44.74      | -29.26 | 74         | 47.16    | 37.9     | 18.13  | 58.45  | 100    | 0       | P       | V       |
|                                      |   | 16650     | 48.54      | -19.66 | 68.2       | 40.31    | 42.1     | 22.5   | 56.37  | 100    | 0       | P       | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 11340     | 43.95      | -30.05 | 74         | 45.45    | 38.03    | 18.35  | 57.88  | 100    | 0       | P       | H       |
|                                      |   | 17010     | 49.27      | -18.93 | 68.2       | 40.53    | 42.17    | 22.81  | 56.24  | 100    | 0       | P       | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   | 11340     | 43.39      | -30.61 | 74         | 44.89    | 38.03    | 18.35  | 57.88  | 100    | 0       | P       | V       |
|                                      |   | 17010     | 50.18      | -18.02 | 68.2       | 41.44    | 42.17    | 22.81  | 56.24  | 100    | 0       | P       | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                   | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                   |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                                      |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 5455.84   | 55.89      | -18.11 | 74         | 44.64    | 34.7     | 11.87  | 35.32  | 200    | 360     | P       | H       |
|  |   | 5468.32   | 57.38      | -10.82 | 68.2       | 46       | 34.8     | 11.89  | 35.31  | 200    | 360     | P       | H       |
|  |   | 5459.92   | 48.9       | -5.1   | 54         | 37.63    | 34.7     | 11.88  | 35.31  | 200    | 360     | A       | H       |
|  | *   | 5530      | 96.89      | -      | -          | 85.3     | 34.93    | 11.96  | 35.3   | 200    | 360     | P       | H       |
|  | *   | 5530      | 88.99      | -      | -          | 77.4     | 34.93    | 11.96  | 35.3   | 200    | 360     | A       | H       |
|  |   | 5745.47   | 50.73      | -17.47 | 68.2       | 38.77    | 35       | 12.28  | 35.32  | 200    | 360     | P       | H       |
|  |   | 5451.28   | 60.44      | -13.56 | 74         | 49.19    | 34.7     | 11.87  | 35.32  | 206    | 344     | P       | V       |
|  |   | 5463.04   | 61.39      | -6.81  | 68.2       | 50.02    | 34.8     | 11.88  | 35.31  | 206    | 344     | P       | V       |
|  |   | 5459.92   | 52.33      | -1.67  | 54         | 41.06    | 34.7     | 11.88  | 35.31  | 206    | 344     | A       | V       |
|  | *   | 5530      | 100.79     | -      | -          | 89.2     | 34.93    | 11.96  | 35.3   | 206    | 344     | P       | V       |
|  | *   | 5530      | 92.09      | -      | -          | 80.5     | 34.93    | 11.96  | 35.3   | 206    | 344     | A       | V       |
|  | 5727.515  | 50.86     | -17.34     | 68.2   | 38.93      | 35       | 12.25    | 35.32  | 206    | 344    | P       | V       |         |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 5391.65   | 53.17      | -20.83 | 74         | 42.08    | 34.63    | 11.8   | 35.34  | 194    | 353     | P       | H       |
|  |   | 5460.95   | 52.51      | -15.69 | 68.2       | 41.24    | 34.7     | 11.88  | 35.31  | 194    | 353     | P       | H       |
|  |   | 5459.9    | 43.8       | -10.2  | 54         | 32.53    | 34.7     | 11.88  | 35.31  | 194    | 353     | A       | H       |
|  | *   | 5610      | 97.28      | -      | -          | 85.53    | 35       | 12.06  | 35.31  | 194    | 353     | P       | H       |
|  | *   | 5610      | 90.92      | -      | -          | 79.17    | 35       | 12.06  | 35.31  | 194    | 353     | A       | H       |
|  |   | 5743.3    | 52.18      | -16.02 | 68.2       | 40.22    | 35       | 12.28  | 35.32  | 194    | 353     | P       | H       |
|  |   | 5442.75   | 55.54      | -18.46 | 74         | 44.3     | 34.7     | 11.86  | 35.32  | 200    | 347     | P       | V       |
|  |   | 5461.65   | 54.34      | -13.86 | 68.2       | 43.07    | 34.7     | 11.88  | 35.31  | 200    | 347     | P       | V       |
|  |   | 5456.05   | 45.91      | -8.09  | 54         | 34.65    | 34.7     | 11.87  | 35.31  | 200    | 347     | A       | V       |
|  | *   | 5610      | 99.54      | -      | -          | 87.79    | 35       | 12.06  | 35.31  | 200    | 347     | P       | V       |
|  | *   | 5610      | 92.9       | -      | -          | 81.15    | 35       | 12.06  | 35.31  | 200    | 347     | A       | V       |
|  | 5759.925  | 54.39     | -13.81     | 68.2   | 42.42      | 35       | 12.3     | 35.33  | 200    | 347    | P       | V       |         |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                   | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 1                                 |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 11060     | 43.62      | -30.38 | 74         | 46.17    | 37.9     | 18.1   | 58.55  | 100    | 0       | P       | H       |
|  |   | 16590     | 46.77      | -21.43 | 68.2       | 38.94    | 41.77    | 22.45  | 56.39  | 100    | 0       | P       | H       |
|  |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|  |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|  |   | 11060     | 44.31      | -29.69 | 74         | 46.86    | 37.9     | 18.1   | 58.55  | 100    | 0       | P       | V       |
|  |   | 16590     | 49.26      | -18.94 | 68.2       | 41.43    | 41.77    | 22.45  | 56.39  | 100    | 0       | P       | V       |
|  |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|  |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 11220     | 44.35      | -29.65 | 74         | 46.35    | 37.92    | 18.25  | 58.17  | 100    | 0       | P       | H       |
|  |   | 16830     | 48.12      | -20.08 | 68.2       | 39.46    | 42.3     | 22.66  | 56.3   | 100    | 0       | P       | H       |
|  |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|  |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|  |   | 11220     | 43.94      | -30.06 | 74         | 45.94    | 37.92    | 18.25  | 58.17  | 100    | 0       | P       | V       |
|  |   | 16830     | 48.6       | -19.6  | 68.2       | 39.94    | 42.3     | 22.66  | 56.3   | 100    | 0       | P       | V       |
|  |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|  |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| <b>Remark</b>                          | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                  | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|---------------------------------------|---|-----------|------------|--------|------------|----------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 1                                |   | ( MHz )   | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| <b>802.11a<br/>CH 144<br/>5720MHz</b> |   | 5451.4    | 49.85      | -24.15 | 74         | 38.6     | 34.7            | 11.87       | 35.32         | 189        | 354         | P            | H       |
|                                       |   | 5464.66   | 51.05      | -17.15 | 68.2       | 39.68    | 34.8            | 11.88       | 35.31         | 189        | 354         | P            | H       |
|                                       |   | 5458.81   | 40.38      | -13.62 | 54         | 29.11    | 34.7            | 11.88       | 35.31         | 189        | 354         | A            | H       |
|                                       | *   | 5720      | 108.62     | -      | -          | 96.7     | 35              | 12.24       | 35.32         | 189        | 354         | P            | H       |
|                                       | *   | 5720      | 100.52     | -      | -          | 88.6     | 35              | 12.24       | 35.32         | 189        | 354         | A            | H       |
|                                       |   | 5912.5    | 51.32      | -16.88 | 68.2       | 39.03    | 35.2            | 12.43       | 35.34         | 189        | 354         | P            | H       |
|                                       |   | 5445.16   | 50.14      | -23.86 | 74         | 38.9     | 34.7            | 11.86       | 35.32         | 197        | 356         | P            | V       |
|                                       |   | 5470      | 49.2       | -19    | 68.2       | 37.82    | 34.8            | 11.89       | 35.31         | 197        | 356         | P            | V       |
|                                       |   | 5459.59   | 41.46      | -12.54 | 54         | 30.19    | 34.7            | 11.88       | 35.31         | 197        | 356         | A            | V       |
|                                       | *   | 5720      | 110.14     | -      | -          | 98.22    | 35              | 12.24       | 35.32         | 197        | 356         | P            | V       |
|                                       | *   | 5720      | 102.11     | -      | -          | 90.19    | 35              | 12.24       | 35.32         | 197        | 356         | A            | V       |
|                                       |   | 5945.5    | 52.68      | -15.52 | 68.2       | 40.38    | 35.2            | 12.44       | 35.34         | 197        | 356         | P            | V       |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |                 |             |               |            |             |              |         |



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

| WIFI                                  | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 1                                |   | ( MHz )   | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| <b>802.11a<br/>CH 144<br/>5720MHz</b> |   | 4290      | 52.85      | -21.15 | 74         | 43.95    | 33.6     | 10.66  | 35.36  | 202    | 47      | P       | H       |
|                                       |   | 4290      | 44.4       | -9.6   | 54         | 35.5     | 33.6     | 10.66  | 35.36  | 202    | 47      | A       | H       |
|                                       |   | 11440     | 45.21      | -28.79 | 74         | 46.28    | 38.13    | 18.44  | 57.64  | 100    | 0       | P       | H       |
|                                       |   | 17160     | 54.03      | -14.17 | 68.2       | 45.68    | 41.73    | 22.91  | 56.29  | 100    | 0       | P       | H       |
|                                       |   | 4290      | 54.4       | -19.6  | 74         | 45.5     | 33.6     | 10.66  | 35.36  | 200    | 336     | P       | V       |
|                                       |   | 4290      | 45.8       | -8.2   | 54         | 36.9     | 33.6     | 10.66  | 35.36  | 200    | 336     | A       | V       |
|                                       |   | 11440     | 47.77      | -26.23 | 74         | 48.84    | 38.13    | 18.44  | 57.64  | 100    | 0       | P       | V       |
|                                       |   | 17160     | 52.94      | -15.26 | 68.2       | 44.59    | 41.73    | 22.91  | 56.29  | 100    | 0       | P       | V       |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |





**Band 3 - Straddle Channel**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

| WIFI   | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.   |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1  |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| <b>802.11n<br/>HT20<br/>CH 144<br/>5720MHz</b> |   | 5351.56   | 49.62      | -24.38 | 74         | 38.71    | 34.5     | 11.76  | 35.35  | 189    | 354     | P       | H       |
|  |   | 5461.15   | 48.53      | -19.67 | 68.2       | 37.26    | 34.7     | 11.88  | 35.31  | 189    | 354     | P       | H       |
|  |   | 5459.59   | 40.35      | -13.65 | 54         | 29.08    | 34.7     | 11.88  | 35.31  | 189    | 354     | A       | H       |
|  | *   | 5720      | 108.02     | -      | -          | 96.1     | 35       | 12.24  | 35.32  | 189    | 354     | P       | H       |
|  | *   | 5720      | 100.12     | -      | -          | 88.2     | 35       | 12.24  | 35.32  | 189    | 354     | A       | H       |
|  |   | 5895.25   | 51.56      | -16.64 | 68.2       | 39.28    | 35.2     | 12.42  | 35.34  | 189    | 354     | P       | H       |
|  |   | 5355.07   | 50.06      | -23.94 | 74         | 39.15    | 34.5     | 11.76  | 35.35  | 197    | 356     | P       | V       |
|  |   | 5465.05   | 49.47      | -18.73 | 68.2       | 38.1     | 34.8     | 11.88  | 35.31  | 197    | 356     | P       | V       |
|  |   | 5459.98   | 41.49      | -12.51 | 54         | 30.22    | 34.7     | 11.88  | 35.31  | 197    | 356     | A       | V       |
|  | *   | 5720      | 109.69     | -      | -          | 97.77    | 35       | 12.24  | 35.32  | 197    | 356     | P       | V       |
|  | *   | 5720      | 101.95     | -      | -          | 90.03    | 35       | 12.24  | 35.32  | 197    | 356     | A       | V       |
|  |   | 5889.5    | 52.74      | -15.46 | 68.2       | 40.47    | 35.2     | 12.41  | 35.34  | 197    | 356     | P       | V       |
| <b>Remark</b>                                  | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI   | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|--|---|-----------|------------|--------|------------|----------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 1   |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| <b>802.11n<br/>HT20<br/>CH 144<br/>5720MHz</b> |   | 4290      | 52.76      | -21.24 | 74         | 43.86    | 33.6            | 10.66       | 35.36         | 201        | 47          | P            | H       |
|  |   | 4290      | 44.17      | -9.83  | 54         | 35.27    | 33.6            | 10.66       | 35.36         | 201        | 47          | A            | H       |
|  |   | 11440     | 44.71      | -29.29 | 74         | 45.78    | 38.13           | 18.44       | 57.64         | 100        | 0           | P            | H       |
|  |   | 17160     | 53.15      | -15.05 | 68.2       | 44.8     | 41.73           | 22.91       | 56.29         | 100        | 0           | P            | H       |
|  |   | 4290      | 53.61      | -20.39 | 74         | 44.71    | 33.6            | 10.66       | 35.36         | 200        | 336         | P            | V       |
|  |   | 4290      | 45.35      | -8.65  | 54         | 36.45    | 33.6            | 10.66       | 35.36         | 200        | 336         | A            | V       |
|  |   | 11440     | 46.15      | -27.85 | 74         | 47.22    | 38.13           | 18.44       | 57.64         | 100        | 0           | P            | V       |
|  |   | 17160     | 52.36      | -15.84 | 68.2       | 44.01    | 41.73           | 22.91       | 56.29         | 100        | 0           | P            | V       |
| <b>Remark</b>                                  | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |                 |             |               |            |             |              |         |



**Band 3 - Straddle Channel**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

| WIFI   | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.   |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1  |   | ( MHz )   | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| <b>802.11n<br/>HT40<br/>CH 142<br/>5710MHz</b> |   | 5454.52   | 50.74      | -23.26 | 74         | 39.49    | 34.7     | 11.87  | 35.32  | 214    | 356     | P       | H       |
|  |   | 5465.83   | 49.37      | -18.83 | 68.2       | 37.99    | 34.8     | 11.89  | 35.31  | 214    | 356     | P       | H       |
|  |   | 5459.98   | 40.82      | -13.18 | 54         | 29.55    | 34.7     | 11.88  | 35.31  | 214    | 356     | A       | H       |
|  | *   | 5710      | 104.91     | -      | -          | 93.01    | 35       | 12.22  | 35.32  | 214    | 356     | P       | H       |
|  | *   | 5710      | 97.05      | -      | -          | 85.15    | 35       | 12.22  | 35.32  | 214    | 356     | A       | H       |
|  |   | 5917.25   | 52.08      | -16.12 | 68.2       | 39.79    | 35.2     | 12.43  | 35.34  | 214    | 356     | P       | H       |
|  |   | 5450.62   | 50.52      | -23.48 | 74         | 39.27    | 34.7     | 11.87  | 35.32  | 207    | 337     | P       | V       |
|  |   | 5467.78   | 49.14      | -19.06 | 68.2       | 37.76    | 34.8     | 11.89  | 35.31  | 207    | 337     | P       | V       |
|  |   | 5459.98   | 41.61      | -12.39 | 54         | 30.34    | 34.7     | 11.88  | 35.31  | 207    | 337     | A       | V       |
|  | *   | 5710      | 105.6      | -      | -          | 93.7     | 35       | 12.22  | 35.32  | 207    | 337     | P       | V       |
|  | *   | 5710      | 98         | -      | -          | 86.1     | 35       | 12.22  | 35.32  | 207    | 337     | A       | V       |
|  | 5909.5  | 52.19     | -16.01     | 68.2   | 39.91      | 35.2     | 12.42    | 35.34  | 207    | 337    | P       | V       |         |
| <b>Remark</b>                                  | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                 | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|--------------------------------------|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 1                               |   | ( MHz )   | ( dBµV/m ) | ( dB ) | Line ( dBµV/m ) | Level ( dBµV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 11420     | 43.83      | -30.17 | 74              | 44.98          | 38.12           | 18.42       | 57.69         | 100        | 0           | P            | H       |
|                                      |   | 17130     | 50.92      | -17.28 | 68.2            | 42.44          | 41.87           | 22.89       | 56.28         | 100        | 0           | P            | H       |
|                                      |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                      |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                      |   | 11420     | 44.25      | -29.75 | 74              | 45.4           | 38.12           | 18.42       | 57.69         | 100        | 0           | P            | V       |
|                                      |   | 17130     | 50.57      | -17.63 | 68.2            | 42.09          | 41.87           | 22.89       | 56.28         | 100        | 0           | P            | V       |
|                                      |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                      |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |



**Band 3 - Straddle Channel**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI   | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.   |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1  |   | ( MHz )   | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| <b>802.11ac</b><br><b>VHT80</b><br><b>CH 138</b><br><b>5690MHz</b> |   | 5456.86   | 51.1       | -22.9  | 74         | 39.83    | 34.7     | 11.88  | 35.31  | 212    | 355     | P       | H       |
|  |   | 5468.17   | 51.06      | -17.14 | 68.2       | 39.68    | 34.8     | 11.89  | 35.31  | 212    | 355     | P       | H       |
|  |   | 5459.98   | 42.11      | -11.89 | 54         | 30.84    | 34.7     | 11.88  | 35.31  | 212    | 355     | A       | H       |
|  | *   | 5690      | 98.77      | -      | -          | 86.9     | 35       | 12.19  | 35.32  | 212    | 355     | P       | H       |
|  | *   | 5690      | 91.07      | -      | -          | 79.2     | 35       | 12.19  | 35.32  | 212    | 355     | A       | H       |
|  |   | 5889.7    | 51.52      | -16.68 | 68.2       | 39.25    | 35.2     | 12.41  | 35.34  | 212    | 355     | P       | H       |
|  |   | 5448.67   | 51.85      | -22.15 | 74         | 40.6     | 34.7     | 11.87  | 35.32  | 201    | 336     | P       | V       |
|  |   | 5469.73   | 51.57      | -16.63 | 68.2       | 40.19    | 34.8     | 11.89  | 35.31  | 201    | 336     | P       | V       |
|  |   | 5459.98   | 42.86      | -11.14 | 54         | 31.59    | 34.7     | 11.88  | 35.31  | 201    | 336     | A       | V       |
|  | *   | 5690      | 100.47     | -      | -          | 88.6     | 35       | 12.19  | 35.32  | 201    | 336     | P       | V       |
|  | *   | 5690      | 92.17      | -      | -          | 80.3     | 35       | 12.19  | 35.32  | 201    | 336     | A       | V       |
|  | 5927.5  | 52.64     | -15.56     | 68.2   | 40.35      | 35.2     | 12.43    | 35.34  | 201    | 336    | P       | V       |         |
| <b>Remark</b>  | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                   | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|--|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 1                                 |   | ( MHz )   | ( dBμV/m ) | ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 11380     | 43.55      | -30.45 | 74              | 44.88          | 38.08           | 18.38       | 57.79         | 100        | 0           | P            | H       |
|  |   | 17070     | 49.02      | -19.18 | 68.2            | 40.37          | 42.07           | 22.84       | 56.26         | 100        | 0           | P            | H       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|  |   | 11380     | 43.51      | -30.49 | 74              | 44.84          | 38.08           | 18.38       | 57.79         | 100        | 0           | P            | V       |
|  |   | 17070     | 47.73      | -20.47 | 68.2            | 39.08          | 42.07           | 22.84       | 56.26         | 100        | 0           | P            | V       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| <b>Remark</b>                          | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |



Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

| WIFI                             | Note   | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|----------------------------------|--|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 1                           |  | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 5GHz<br>802.11ac<br>VHT80<br>SHF |  | 39230     | 42.91      | -31.09 | 74         | 42.31    | 43.94    | 11.81  | 55.15  | 100    | 0       | P       | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                  |  |           | 39494      | 44.98  | -29.02     | 74       | 44.07    | 44.1   | 11.81  | 55.1   | 100     | 0       | P       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                  |  |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                           | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                            | Note   | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |   |
|---------------------------------|--|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|---|
| Ant. 1                          |  | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |   |
| 5GHz<br>802.11ac<br>VHT80<br>LF |  | 83.73     | 25.87      | -14.13 | 40         | 40.69    | 13.64    | 1.53   | 29.99  | -      | -       | P       | H       |   |
|                                 |  | 128.28    | 31.6       | -11.9  | 43.5       | 42.1     | 17.55    | 1.9    | 29.95  | 100    | 0       | P       | H       |   |
|                                 |  | 265.44    | 26.89      | -19.11 | 46         | 34.39    | 19.55    | 2.74   | 29.79  | -      | -       | P       | H       |   |
|                                 |  | 360.9     | 25.89      | -20.11 | 46         | 31.81    | 20.65    | 3.21   | 29.78  | -      | -       | P       | H       |   |
|                                 |  | 520.5     | 30.5       | -15.5  | 46         | 32.47    | 23.95    | 3.86   | 29.78  | -      | -       | P       | H       |   |
|                                 |  | 954.5     | 33.39      | -12.61 | 46         | 26.17    | 30.48    | 5.27   | 28.53  | -      | -       | P       | H       |   |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                 |  |           | 32.16      | 33.01  | -6.99      | 40       | 38.46    | 23.57  | 0.96   | 29.98  | 100     | 0       | P       | V |
|                                 |  |           | 82.92      | 27.27  | -12.73     | 40       | 42.1     | 13.64  | 1.52   | 29.99  | -       | -       | P       | V |
|                                 |  |           | 152.04     | 30.55  | -12.95     | 43.5     | 41.44    | 16.96  | 2.07   | 29.92  | -       | -       | P       | V |
|                                 |  | 358.1     | 27         | -19    | 46         | 33.02    | 20.56    | 3.2    | 29.78  | -      | -       | P       | V       |   |
|                                 |  | 520.5     | 36.64      | -9.36  | 46         | 38.61    | 23.95    | 3.86   | 29.78  | -      | -       | P       | V       |   |
|                                 |  | 927.2     | 33.5       | -12.5  | 46         | 27.84    | 29.19    | 5.2    | 28.73  | -      | -       | P       | V       |   |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         | V       |   |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         | V       |   |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         | V       |   |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         | V       |   |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         | V       |   |
|                                 |  |           |            |        |            |          |          |        |        |        |         |         | V       |   |
| Remark                          | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |          |          |        |        |        |         |         |         |   |





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

| WIFI                        | Note | Frequency | Level      | Over            | Limit              | Read              | Antenna            | Path           | Preamp           | Ant           | Table          | Peak            | Pol.    |   |
|-----------------------------|------|-----------|------------|-----------------|--------------------|-------------------|--------------------|----------------|------------------|---------------|----------------|-----------------|---------|---|
| Ant.<br>2                   |      | ( MHz )   | ( dBμV/m ) | Limit<br>( dB ) | Line<br>( dBμV/m ) | Level<br>( dBμV ) | Factor<br>( dB/m ) | Loss<br>( dB ) | Factor<br>( dB ) | Pos<br>( cm ) | Pos<br>( deg ) | Avg.<br>( P/A ) | ( H/V ) |   |
| 802.11a<br>CH 36<br>5180MHz |      | 5149.24   | 60.6       | -13.4           | 74                 | 50.06             | 34.4               | 11.56          | 35.42            | 212           | 338            | P               | H       |   |
|                             |      | 5150      | 48.52      | -5.48           | 54                 | 37.98             | 34.4               | 11.56          | 35.42            | 212           | 338            | A               | H       |   |
|                             | *    | 5180      | 107.47     | -               | -                  | 96.83             | 34.47              | 11.58          | 35.41            | 212           | 338            | P               | H       |   |
|                             | *    | 5180      | 99.83      | -               | -                  | 89.19             | 34.47              | 11.58          | 35.41            | 212           | 338            | A               | H       |   |
|                             |      |           |            |                 |                    |                   |                    |                |                  |               |                |                 | H       |   |
|                             |      |           |            |                 |                    |                   |                    |                |                  |               |                |                 |         | H |
|                             |      |           | 5149.76    | 68.18           | -5.82              | 74                | 57.64              | 34.4           | 11.56            | 35.42         | 177            | 34              | P       | V |
|                             |      |           | 5150       | 52.49           | -1.51              | 54                | 41.95              | 34.4           | 11.56            | 35.42         | 177            | 34              | P       | V |
|                             | *    |           | 5180       | 110.63          | -                  | -                 | 99.99              | 34.47          | 11.58            | 35.41         | 177            | 34              | P       | V |
|                             | *    |           | 5180       | 103.01          | -                  | -                 | 92.37              | 34.47          | 11.58            | 35.41         | 177            | 34              | A       | V |
|                             |      |           |            |                 |                    |                   |                    |                |                  |               |                |                 |         | V |
|                             |      |           |            |                 |                    |                   |                    |                |                  |               |                |                 |         | V |
| 802.11a<br>CH 44<br>5220MHz |      | 5135.2    | 50.96      | -23.04          | 74                 | 40.47             | 34.37              | 11.54          | 35.42            | 219           | 332            | P               | H       |   |
|                             |      | 5149.76   | 42.27      | -11.73          | 54                 | 31.73             | 34.4               | 11.56          | 35.42            | 219           | 332            | A               | H       |   |
|                             | *    | 5220      | 108.67     | -               | -                  | 97.95             | 34.5               | 11.62          | 35.4             | 219           | 332            | P               | H       |   |
|                             | *    | 5220      | 100.85     | -               | -                  | 90.13             | 34.5               | 11.62          | 35.4             | 219           | 332            | A               | H       |   |
|                             |      |           | 5360.04    | 50.47           | -23.53             | 74                | 39.55              | 34.5           | 11.77            | 35.35         | 219            | 332             | P       | H |
|                             |      |           | 5365.92    | 40.88           | -13.12             | 54                | 29.89              | 34.57          | 11.77            | 35.35         | 219            | 332             | A       | H |
|                             |      |           | 5148.46    | 54.19           | -19.81             | 74                | 43.65              | 34.4           | 11.56            | 35.42         | 180            | 32              | P       | V |
|                             |      |           | 5150       | 44.73           | -9.27              | 54                | 34.19              | 34.4           | 11.56            | 35.42         | 180            | 32              | A       | V |
|                             | *    |           | 5220       | 111.58          | -                  | -                 | 100.86             | 34.5           | 11.62            | 35.4          | 180            | 32              | P       | V |
|                             | *    |           | 5220       | 103.72          | -                  | -                 | 93                 | 34.5           | 11.62            | 35.4          | 180            | 32              | A       | V |
|                             |      |           | 5426.96    | 50.25           | -23.75             | 74                | 39.03              | 34.7           | 11.84            | 35.32         | 180            | 32              | P       | V |
|                             |      |           | 5365.92    | 42.16           | -11.84             | 54                | 31.17              | 34.57          | 11.77            | 35.35         | 180            | 32              | A       | V |



|                                      |   |         |        |        |    |        |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 48<br/>5240MHz</b> |   | 5086.58 | 50.43  | -23.57 | 74 | 40.14  | 34.23 | 11.5  | 35.44 | 212 | 332 | P | H |
|                                      |   | 5079.3  | 41.23  | -12.77 | 54 | 30.94  | 34.23 | 11.5  | 35.44 | 212 | 332 | A | H |
|                                      | *   | 5240    | 108.31 | -      | -  | 97.56  | 34.5  | 11.64 | 35.39 | 212 | 332 | P | H |
|                                      | *   | 5240    | 100.67 | -      | -  | 89.92  | 34.5  | 11.64 | 35.39 | 212 | 332 | A | H |
|                                      |   | 5380.48 | 51.44  | -22.56 | 74 | 40.36  | 34.63 | 11.79 | 35.34 | 212 | 332 | P | H |
|                                      |   | 5362.56 | 41.19  | -12.81 | 54 | 30.2   | 34.57 | 11.77 | 35.35 | 212 | 332 | A | H |
|                                      |   | 5148.72 | 53.59  | -20.41 | 74 | 43.05  | 34.4  | 11.56 | 35.42 | 173 | 32  | P | V |
|                                      |   | 5079.04 | 43.21  | -10.79 | 54 | 32.92  | 34.23 | 11.5  | 35.44 | 173 | 32  | A | V |
|                                      | *   | 5240    | 111.56 | -      | -  | 100.81 | 34.5  | 11.64 | 35.39 | 173 | 32  | P | V |
|                                      | *   | 5240    | 103.65 | -      | -  | 92.9   | 34.5  | 11.64 | 35.39 | 173 | 32  | A | V |
|                                      |   | 5408.2  | 50.87  | -23.13 | 74 | 39.68  | 34.7  | 11.82 | 35.33 | 173 | 32  | P | V |
|                                      |   | 5350    | 42.51  | -11.49 | 54 | 31.6   | 34.5  | 11.76 | 35.35 | 173 | 32  | A | V |
| <b>Remark</b>                        | <ol style="list-style-type: none"> <li>1. No other spurious found.</li> <li>2. All results are PASS against Peak and Average limit line.</li> </ol> |         |        |        |    |        |       |       |       |     |     |   |   |



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

| WIFI                        | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 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     | 43.37      | -24.83 | 68.2       | 47.35    | 37.47    | 17.58  | 59.03  | 100    | 0       | P       | H       |
|                             |   | 15540     | 46.03      | -27.97 | 74         | 41.05    | 40.1     | 21.65  | 56.77  | 100    | 0       | P       | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |   | 10360     | 43.31      | -24.89 | 68.2       | 47.29    | 37.47    | 17.58  | 59.03  | 100    | 0       | P       | V       |
|                             |   | 15540     | 45.82      | -28.18 | 74         | 40.84    | 40.1     | 21.65  | 56.77  | 100    | 0       | P       | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 44<br>5220MHz |   | 3915      | 50.15      | -23.85 | 74         | 42.1     | 33.3     | 10.11  | 35.36  | 231    | 350     | P       | H       |
|                             |   | 3915      | 38.54      | -15.46 | 54         | 30.49    | 33.3     | 10.11  | 35.36  | 231    | 350     | A       | H       |
|                             |   | 10440     | 46.89      | -21.31 | 68.2       | 51.25    | 37.53    | 17.65  | 59.54  | 100    | 0       | P       | H       |
|                             |   | 15660     | 48.81      | -25.19 | 74         | 43.33    | 40.45    | 21.73  | 56.7   | 100    | 0       | P       | H       |
|                             |   | 3915      | 49.36      | -24.64 | 74         | 41.31    | 33.3     | 10.11  | 35.36  | 100    | 0       | P       | V       |
|                             |   | 10440     | 46.1       | -22.1  | 68.2       | 50.46    | 37.53    | 17.65  | 59.54  | 100    | 0       | P       | V       |
|                             |   | 15660     | 49.42      | -24.58 | 74         | 43.94    | 40.45    | 21.73  | 56.7   | 100    | 0       | P       | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 48<br>5240MHz |   | 10480     | 44.87      | -23.33 | 68.2       | 48.55    | 37.58    | 17.68  | 58.94  | 100    | 0       | P       | H       |
|                             |   | 15720     | 48.86      | -25.14 | 74         | 43.26    | 40.58    | 21.76  | 56.74  | 100    | 0       | P       | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |   | 10480     | 45.88      | -22.32 | 68.2       | 49.56    | 37.58    | 17.68  | 58.94  | 100    | 0       | P       | V       |
|                             |   | 15720     | 48.8       | -25.2  | 74         | 43.2     | 40.58    | 21.76  | 56.74  | 100    | 0       | P       | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |   |
|-------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|---|
| Ant.                                |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |   |
| 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 |      | 5145.08   | 61.98      | -12.02 | 74         | 51.45    | 34.4     | 11.55  | 35.42  | 206    | 338     | P       | H       |   |
|                                     |      | 5150      | 47.66      | -6.34  | 54         | 37.12    | 34.4     | 11.56  | 35.42  | 206    | 338     | A       | H       |   |
|                                     | *    | 5180      | 107.47     | -      | -          | 96.83    | 34.47    | 11.58  | 35.41  | 206    | 338     | P       | H       |   |
|                                     | *    | 5180      | 99.76      | -      | -          | 89.12    | 34.47    | 11.58  | 35.41  | 206    | 338     | A       | H       |   |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | H       |   |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                     |      |           | 5150       | 63.97  | -10.03     | 74       | 53.43    | 34.4   | 11.56  | 35.42  | 176     | 33      | P       | V |
|                                     |      |           | 5150       | 51.1   | -2.9       | 54       | 40.56    | 34.4   | 11.56  | 35.42  | 176     | 33      | A       | V |
|                                     |      | *         | 5180       | 110.82 | -          | -        | 100.18   | 34.47  | 11.58  | 35.41  | 176     | 33      | P       | V |
|                                     |      | *         | 5180       | 103.12 | -          | -        | 92.48    | 34.47  | 11.58  | 35.41  | 176     | 33      | A       | V |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | V       |   |
|                                     |      |           |            |        |            |          |          |        |        |        |         |         | V       |   |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5090.22   | 50.92      | -23.08 | 74         | 40.55    | 34.3     | 11.51  | 35.44  | 221    | 332     | P       | H       |   |
|                                     |      | 5150      | 42.41      | -11.59 | 54         | 31.87    | 34.4     | 11.56  | 35.42  | 221    | 332     | A       | H       |   |
|                                     | *    | 5220      | 108.65     | -      | -          | 97.93    | 34.5     | 11.62  | 35.4   | 221    | 332     | P       | H       |   |
|                                     | *    | 5220      | 100.85     | -      | -          | 90.13    | 34.5     | 11.62  | 35.4   | 221    | 332     | A       | H       |   |
|                                     |      |           | 5397.28    | 49.29  | -24.71     | 74       | 38.11    | 34.7   | 11.81  | 35.33  | 221     | 332     | P       | H |
|                                     |      |           | 5366.48    | 41.06  | -12.94     | 54       | 30.07    | 34.57  | 11.77  | 35.35  | 221     | 332     | A       | H |
|                                     |      |           | 5042.38    | 52.67  | -21.33     | 74       | 42.56    | 34.1   | 11.47  | 35.46  | 177     | 34      | P       | V |
|                                     |      |           | 5150       | 44.47  | -9.53      | 54       | 33.93    | 34.4   | 11.56  | 35.42  | 177     | 34      | A       | V |
|                                     |      | *         | 5220       | 111.25 | -          | -        | 100.53   | 34.5   | 11.62  | 35.4   | 177     | 34      | P       | V |
|                                     |      | *         | 5220       | 103.71 | -          | -        | 92.99    | 34.5   | 11.62  | 35.4   | 177     | 34      | A       | V |
|                                     |      | 5380.76   | 49.97      | -24.03 | 74         | 38.89    | 34.63    | 11.79  | 35.34  | 177    | 34      | P       | V       |   |
|                                     |      | 5376.56   | 41.99      | -12.01 | 54         | 30.97    | 34.57    | 11.79  | 35.34  | 177    | 34      | A       | V       |   |



|   |   |         |        |        |    |        |       |       |       |     |     |   |   |
|---|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 48</b><br><b>5240MHz</b> |   | 5082.68 | 51.12  | -22.88 | 74 | 40.83  | 34.23 | 11.5  | 35.44 | 204 | 332 | P | H |
|   |   | 5079.3  | 41.33  | -12.67 | 54 | 31.04  | 34.23 | 11.5  | 35.44 | 204 | 332 | A | H |
|   | *   | 5240    | 108.34 | -      | -  | 97.59  | 34.5  | 11.64 | 35.39 | 204 | 332 | P | H |
|   | *   | 5240    | 100.87 | -      | -  | 90.12  | 34.5  | 11.64 | 35.39 | 204 | 332 | A | H |
|   |   | 5413.8  | 50.28  | -23.72 | 74 | 39.08  | 34.7  | 11.83 | 35.33 | 204 | 332 | P | H |
|   |   | 5352.76 | 41.39  | -12.61 | 54 | 30.48  | 34.5  | 11.76 | 35.35 | 204 | 332 | A | H |
|   |   | 5063.96 | 52.44  | -21.56 | 74 | 42.24  | 34.17 | 11.48 | 35.45 | 175 | 32  | P | V |
|   |   | 5078.78 | 43.79  | -10.21 | 54 | 33.5   | 34.23 | 11.5  | 35.44 | 175 | 32  | A | V |
|   | *   | 5240    | 111.23 | -      | -  | 100.48 | 34.5  | 11.64 | 35.39 | 175 | 32  | P | V |
|   | *   | 5240    | 103.72 | -      | -  | 92.97  | 34.5  | 11.64 | 35.39 | 175 | 32  | A | V |
|   |   | 5352.48 | 51.16  | -22.84 | 74 | 40.25  | 34.5  | 11.76 | 35.35 | 175 | 32  | P | V |
|   |   | 5351.36 | 42.43  | -11.57 | 54 | 31.52  | 34.5  | 11.76 | 35.35 | 175 | 32  | A | V |
| <b>Remark</b>   | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



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

| WIFI                                | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|-------------------------------------|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 2                              |   | ( MHz )   | ( dBμV/m ) | ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 36<br>5180MHz |   | 10360     | 42.88      | -25.32 | 68.2            | 46.86          | 37.47           | 17.58       | 59.03         | 100        | 0           | P            | H       |
|                                     |   | 15540     | 46.05      | -27.95 | 74              | 41.07          | 40.1            | 21.65       | 56.77         | 100        | 0           | P            | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   | 10360     | 43.26      | -24.94 | 68.2            | 47.24          | 37.47           | 17.58       | 59.03         | 100        | 0           | P            | V       |
|                                     |   | 15540     | 45.73      | -28.27 | 74              | 40.75          | 40.1            | 21.65       | 56.77         | 100        | 0           | P            | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |   | 10440     | 44.6       | -23.6  | 68.2            | 48.39          | 37.53           | 17.65       | 58.97         | 100        | 0           | P            | H       |
|                                     |   | 15660     | 47.39      | -26.61 | 74              | 41.96          | 40.45           | 21.73       | 56.75         | 100        | 0           | P            | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   | 10440     | 44.98      | -23.22 | 68.2            | 48.77          | 37.53           | 17.65       | 58.97         | 100        | 0           | P            | V       |
|                                     |   | 15660     | 47.86      | -26.14 | 74              | 42.43          | 40.45           | 21.73       | 56.75         | 100        | 0           | P            | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 10480     | 44.79      | -23.41 | 68.2            | 48.47          | 37.58           | 17.68       | 58.94         | 100        | 0           | P            | H       |
|                                     |   | 15720     | 49.15      | -24.85 | 74              | 43.55          | 40.58           | 21.76       | 56.74         | 100        | 0           | P            | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   | 10480     | 44.98      | -23.22 | 68.2            | 48.66          | 37.58           | 17.68       | 58.94         | 100        | 0           | P            | V       |
|                                     |   | 15720     | 49.9       | -24.1  | 74              | 44.3           | 40.58           | 21.76       | 56.74         | 100        | 0           | P            | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |



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

| WIFI                                | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 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 |   | 5149.5    | 57.52      | -16.48 | 74         | 46.98    | 34.4     | 11.56  | 35.42  | 246    | 345     | P       | H       |
|                                     |   | 5150.02   | 48.5       | -101.5 | 150        | 37.96    | 34.4     | 11.56  | 35.42  | 246    | 345     | A       | H       |
|                                     | *   | 5190      | 101.04     | -      | -          | 90.39    | 34.47    | 11.59  | 35.41  | 246    | 345     | P       | H       |
|                                     | *   | 5190      | 93.87      | -      | -          | 83.22    | 34.47    | 11.59  | 35.41  | 246    | 345     | A       | H       |
|                                     |   | 5439.56   | 49.27      | -24.73 | 74         | 38.03    | 34.7     | 11.86  | 35.32  | 246    | 345     | P       | H       |
|                                     |   | 5459.16   | 39.88      | -14.12 | 54         | 28.61    | 34.7     | 11.88  | 35.31  | 246    | 345     | A       | H       |
|                                     |   | 5149.5    | 59.86      | -14.14 | 74         | 49.32    | 34.4     | 11.56  | 35.42  | 191    | 28      | P       | V       |
|                                     |   | 5150      | 51.72      | -2.28  | 54         | 41.18    | 34.4     | 11.56  | 35.42  | 191    | 28      | A       | V       |
|                                     | *   | 5190      | 103.77     | -      | -          | 93.12    | 34.47    | 11.59  | 35.41  | 191    | 28      | P       | V       |
|                                     | *   | 5190      | 96.86      | -      | -          | 86.21    | 34.47    | 11.59  | 35.41  | 191    | 28      | A       | V       |
|                                     |   | 5433.96   | 49.63      | -24.37 | 74         | 38.4     | 34.7     | 11.85  | 35.32  | 191    | 28      | P       | V       |
|                                     |   | 5360.88   | 40.65      | -13.35 | 54         | 29.66    | 34.57    | 11.77  | 35.35  | 191    | 28      | A       | V       |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |   | 5147.16   | 53         | -21    | 74         | 42.46    | 34.4     | 11.56  | 35.42  | 234    | 345     | P       | H       |
|                                     |   | 5150      | 44.07      | -9.93  | 54         | 33.53    | 34.4     | 11.56  | 35.42  | 234    | 345     | A       | H       |
|                                     | *   | 5230      | 104.85     | -      | -          | 94.11    | 34.5     | 11.63  | 35.39  | 234    | 345     | P       | H       |
|                                     | *   | 5230      | 97.61      | -      | -          | 86.87    | 34.5     | 11.63  | 35.39  | 234    | 345     | A       | H       |
|                                     |   | 5351.08   | 50.89      | -23.11 | 74         | 39.98    | 34.5     | 11.76  | 35.35  | 234    | 345     | P       | H       |
|                                     |   | 5350      | 41.49      | -12.51 | 54         | 30.58    | 34.5     | 11.76  | 35.35  | 234    | 345     | A       | H       |
|                                     |   | 5143.78   | 54.13      | -19.87 | 74         | 43.6     | 34.4     | 11.55  | 35.42  | 190    | 30      | P       | V       |
|                                     |   | 5150      | 46.63      | -7.37  | 54         | 36.09    | 34.4     | 11.56  | 35.42  | 190    | 30      | A       | V       |
|                                     | *   | 5230      | 108.08     | -      | -          | 97.34    | 34.5     | 11.63  | 35.39  | 190    | 30      | P       | V       |
|                                     | *   | 5230      | 100.67     | -      | -          | 89.93    | 34.5     | 11.63  | 35.39  | 190    | 30      | A       | V       |
|                                     | 5362  | 51.84     | -22.16     | 74     | 40.85      | 34.57    | 11.77    | 35.35  | 190    | 30     | P       | V       |         |
|                                     | 5350  | 43.11     | -10.89     | 54     | 32.2       | 34.5     | 11.76    | 35.35  | 190    | 30     | A       | V       |         |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|-------------------------------------|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 2                              |   | ( MHz )   | ( dBµV/m ) | ( dB ) | Line ( dBµV/m ) | Level ( dBµV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 38<br>5190MHz |   | 10380     | 44.06      | -24.14 | 68.2            | 48             | 37.48           | 17.6        | 59.02         | 100        | 0           | P            | H       |
|                                     |   | 15570     | 46.43      | -27.57 | 74              | 41.32          | 40.2            | 21.68       | 56.77         | 100        | 0           | P            | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   | 10380     | 44.39      | -23.81 | 68.2            | 48.33          | 37.48           | 17.6        | 59.02         | 100        | 0           | P            | V       |
|                                     |   | 15570     | 46.38      | -27.62 | 74              | 41.27          | 40.2            | 21.68       | 56.77         | 100        | 0           | P            | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |   | 10460     | 44.64      | -23.56 | 68.2            | 48.39          | 37.55           | 17.66       | 58.96         | 100        | 0           | P            | H       |
|                                     |   | 15690     | 47.16      | -26.84 | 74              | 41.61          | 40.55           | 21.75       | 56.75         | 100        | 0           | P            | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   | 10460     | 45.78      | -22.42 | 68.2            | 49.53          | 37.55           | 17.66       | 58.96         | 100        | 0           | P            | V       |
|                                     |   | 15690     | 48.19      | -25.81 | 74              | 42.64          | 40.55           | 21.75       | 56.75         | 100        | 0           | P            | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| <b>Remark</b>                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |





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

| WIFI  | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.  |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 2   |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| <b>802.11ac</b><br><b>VHT80</b><br><b>CH 42</b><br><b>5210MHz</b> |   | 5147.94   | 55.89      | -18.11 | 74         | 45.35    | 34.4     | 11.56  | 35.42  | 203    | 338     | P       | H       |
|   |   | 5150      | 47.74      | -6.26  | 54         | 37.2     | 34.4     | 11.56  | 35.42  | 203    | 338     | A       | H       |
|   | *   | 5210      | 96.76      | -      | -          | 86.05    | 34.5     | 11.61  | 35.4   | 203    | 338     | P       | H       |
|   | *   | 5210      | 88.51      | -      | -          | 77.8     | 34.5     | 11.61  | 35.4   | 203    | 338     | A       | H       |
|   |   | 5365.08   | 50.08      | -23.92 | 74         | 39.09    | 34.57    | 11.77  | 35.35  | 203    | 338     | P       | H       |
|   |   | 5350.8    | 40.72      | -13.28 | 54         | 29.81    | 34.5     | 11.76  | 35.35  | 203    | 338     | A       | H       |
|   |   | 5147.16   | 60.16      | -13.84 | 74         | 49.62    | 34.4     | 11.56  | 35.42  | 184    | 29      | P       | V       |
|   |   | 5145.34   | 51.49      | -2.51  | 54         | 40.96    | 34.4     | 11.55  | 35.42  | 184    | 29      | A       | V       |
|   | *   | 5210      | 99.51      | -      | -          | 88.8     | 34.5     | 11.61  | 35.4   | 184    | 29      | P       | V       |
|   | *   | 5210      | 92.11      | -      | -          | 81.4     | 34.5     | 11.61  | 35.4   | 184    | 29      | A       | V       |
|   | 5405.4  | 50.44     | -23.56     | 74     | 39.25      | 34.7     | 11.82    | 35.33  | 184    | 29     | P       | V       |         |
|   | 5350.52   | 41.97     | -12.03     | 54     | 31.06      | 34.5     | 11.76    | 35.35  | 184    | 29     | A       | V       |         |
| <b>Remark</b>   | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                  | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|---------------------------------------|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 2                                |   | ( MHz )   | ( dBμV/m ) | ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 10420     | 44.55      | -23.65 | 68.2            | 48.39          | 37.52           | 17.63       | 58.99         | 100        | 0           | P            | H       |
|                                       |   | 15630     | 46.54      | -27.46 | 74              | 41.19          | 40.4            | 21.71       | 56.76         | 100        | 0           | P            | H       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                       |   | 10420     | 43.8       | -24.4  | 68.2            | 47.64          | 37.52           | 17.63       | 58.99         | 100        | 0           | P            | V       |
|                                       |   | 15630     | 45.7       | -28.3  | 74              | 40.35          | 40.4            | 21.71       | 56.76         | 100        | 0           | P            | V       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |



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

| WIFI                        | Note                        | Frequency | Level      | Over         | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|-----------------------------|-----------------------------|-----------|------------|--------------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 2                      |                             | ( MHz )   | ( dBμV/m ) | Limit ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |                             | 5063      | 50.46      | -23.54       | 74              | 40.26          | 34.17           | 11.48       | 35.45         | 194        | 335         | P            | H       |
|                             |                             | 5098.7    | 40.97      | -13.03       | 54              | 30.6           | 34.3            | 11.51       | 35.44         | 194        | 335         | A            | H       |
|                             | *                           | 5260      | 107.45     | -            | -               | 96.6           | 34.57           | 11.66       | 35.38         | 194        | 335         | P            | H       |
|                             | *                           | 5260      | 99.25      | -            | -               | 88.4           | 34.57           | 11.66       | 35.38         | 194        | 335         | A            | H       |
|                             |                             | 5381.04   | 49.51      | -24.49       | 74              | 38.43          | 34.63           | 11.79       | 35.34         | 194        | 335         | P            | H       |
|                             |                             | 5351.04   | 40.91      | -13.09       | 54              | 30             | 34.5            | 11.76       | 35.35         | 194        | 335         | A            | H       |
|                             |                             | 5103.6    | 51.48      | -22.52       | 74              | 41.09          | 34.3            | 11.52       | 35.43         | 184        | 24          | P            | V       |
|                             |                             | 5098.7    | 42.88      | -11.12       | 54              | 32.51          | 34.3            | 11.51       | 35.44         | 184        | 24          | A            | V       |
|                             | *                           | 5260      | 110.25     | -            | -               | 99.4           | 34.57           | 11.66       | 35.38         | 184        | 24          | P            | V       |
|                             | *                           | 5260      | 101.95     | -            | -               | 91.1           | 34.57           | 11.66       | 35.38         | 184        | 24          | A            | V       |
|                             |                             | 5353.2    | 52.24      | -21.76       | 74              | 41.33          | 34.5            | 11.76       | 35.35         | 184        | 24          | P            | V       |
|                             |                             | 5351.04   | 42.34      | -11.66       | 54              | 31.43          | 34.5            | 11.76       | 35.35         | 184        | 24          | A            | V       |
|                             | 802.11a<br>CH 60<br>5300MHz |           | 5114.8     | 50.14        | -23.86          | 74             | 39.71           | 34.33       | 11.53         | 35.43      | 188         | 335          | P       |
|                             |                             | 5139.3    | 40.76      | -13.24       | 54              | 30.26          | 34.37           | 11.55       | 35.42         | 188        | 335         | A            | H       |
| *                           |                             | 5300      | 105.94     | -            | -               | 94.91          | 34.7            | 11.7        | 35.37         | 188        | 335         | P            | H       |
| *                           |                             | 5300      | 97.73      | -            | -               | 86.7           | 34.7            | 11.7        | 35.37         | 188        | 335         | A            | H       |
|                             |                             | 5361.6    | 55.71      | -18.29       | 74              | 44.72          | 34.57           | 11.77       | 35.35         | 188        | 335         | P            | H       |
|                             |                             | 5350.08   | 44.1       | -9.9         | 54              | 33.19          | 34.5            | 11.76       | 35.35         | 188        | 335         | A            | H       |
|                             |                             | 5120.05   | 51.94      | -22.06       | 74              | 41.51          | 34.33           | 11.53       | 35.43         | 179        | 24          | P            | V       |
|                             |                             | 5138.95   | 42.3       | -11.7        | 54              | 31.8           | 34.37           | 11.55       | 35.42         | 179        | 24          | A            | V       |
| *                           |                             | 5300      | 110.14     | -            | -               | 99.11          | 34.7            | 11.7        | 35.37         | 179        | 24          | P            | V       |
| *                           |                             | 5300      | 101.94     | -            | -               | 90.91          | 34.7            | 11.7        | 35.37         | 179        | 24          | A            | V       |
|                             |                             | 5352      | 59.55      | -14.45       | 74              | 48.64          | 34.5            | 11.76       | 35.35         | 179        | 24          | P            | V       |
|                             | 5350.08                     | 46.55     | -7.45      | 54           | 35.64           | 34.5           | 11.76           | 35.35       | 179           | 24         | A           | V            |         |



|  |   |         |       |        |    |       |       |       |       |     |     |   |   |
|--|---|---------|-------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 64</b><br><b>5320MHz</b> | *   | 5320    | 105.8 | -      | -  | 94.8  | 34.63 | 11.73 | 35.36 | 197 | 336 | P | H |
|  | *   | 5320    | 97.7  | -      | -  | 86.7  | 34.63 | 11.73 | 35.36 | 197 | 336 | A | H |
|  |   | 5367.52 | 58.8  | -15.2  | 74 | 47.8  | 34.57 | 11.78 | 35.35 | 197 | 336 | P | H |
|  |   | 5350.08 | 46.96 | -7.04  | 54 | 36.05 | 34.5  | 11.76 | 35.35 | 197 | 336 | A | H |
|  |   |         |       |        |    |       |       |       |       |     |     |   | H |
|  |   |         |       |        |    |       |       |       |       |     |     |   | H |
|  | *   | 5320    | 108.5 | -      | -  | 97.5  | 34.63 | 11.73 | 35.36 | 181 | 20  | P | V |
|  | *   | 5320    | 100.3 | -      | -  | 89.3  | 34.63 | 11.73 | 35.36 | 181 | 20  | A | V |
|  |   | 5354.24 | 63.09 | -10.91 | 74 | 52.18 | 34.5  | 11.76 | 35.35 | 181 | 20  | P | V |
|  |   | 5350.08 | 49.5  | -4.5   | 54 | 38.59 | 34.5  | 11.76 | 35.35 | 181 | 20  | A | V |
|  |   |         |       |        |    |       |       |       |       |     |     |   | V |
|  |   |         |       |        |    |       |       |       |       |     |     |   | V |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |       |        |    |       |       |       |       |     |     |   |   |



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

| WIFI                        | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 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     | 44.63      | -23.57 | 68.2       | 48.25    | 37.6     | 17.7   | 58.92  | 100    | 0       | P       | H       |
|                             |   | 15780     | 49.13      | -24.87 | 74         | 43.54    | 40.53    | 21.8   | 56.74  | 100    | 0       | P       | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |   | 10520     | 45.21      | -22.99 | 68.2       | 48.83    | 37.6     | 17.7   | 58.92  | 100    | 0       | P       | V       |
|                             |   | 15780     | 48.83      | -25.17 | 74         | 43.24    | 40.53    | 21.8   | 56.74  | 100    | 0       | P       | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 60<br>5300MHz |   | 3975      | 50.19      | -23.81 | 74         | 42.18    | 33.2     | 10.18  | 35.37  | 268    | 360     | P       | H       |
|                             |   | 3975      | 37.99      | -16.01 | 54         | 29.98    | 33.2     | 10.18  | 35.37  | 268    | 360     | A       | H       |
|                             |   | 10600     | 46.59      | -27.41 | 74         | 50.48    | 37.6     | 17.76  | 59.25  | 100    | 0       | P       | H       |
|                             |   | 15900     | 51.65      | -22.35 | 74         | 46.02    | 40.8     | 21.89  | 57.06  | 109    | 315     | P       | H       |
|                             |   | 15900     | 42.35      | -11.65 | 54         | 36.72    | 40.8     | 21.89  | 57.06  | 109    | 315     | A       | H       |
|                             |   | 3975      | 50.58      | -23.42 | 74         | 42.57    | 33.2     | 10.18  | 35.37  | 209    | 41      | P       | V       |
|                             |   | 3975      | 38.27      | -15.73 | 54         | 30.26    | 33.2     | 10.18  | 35.37  | 209    | 41      | A       | V       |
|                             |   | 10600     | 46.89      | -27.11 | 74         | 50.78    | 37.6     | 17.76  | 59.25  | 100    | 0       | P       | V       |
|                             |   | 15900     | 52.05      | -21.95 | 74         | 46.42    | 40.8     | 21.89  | 57.06  | 294    | 338     | P       | V       |
|                             |   | 15900     | 42.61      | -11.39 | 54         | 36.98    | 40.8     | 21.89  | 57.06  | 294    | 338     | A       | V       |
| 802.11a<br>CH 64<br>5320MHz |   | 10640     | 44.19      | -29.81 | 74         | 47.63    | 37.63    | 17.79  | 58.86  | 100    | 0       | P       | H       |
|                             |   | 15960     | 49.36      | -24.64 | 74         | 43.34    | 40.8     | 21.93  | 56.71  | 100    | 0       | P       | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |   | 10640     | 44.82      | -29.18 | 74         | 48.26    | 37.63    | 17.79  | 58.86  | 100    | 0       | P       | V       |
|                             |   | 15960     | 49.69      | -24.31 | 74         | 43.67    | 40.8     | 21.93  | 56.71  | 100    | 0       | P       | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 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 |      | 5114.1    | 50.67      | -23.33 | 74         | 40.24    | 34.33    | 11.53  | 35.43  | 194    | 335     | P       | H       |
|                                     |      | 5098.7    | 40.99      | -13.01 | 54         | 30.62    | 34.3     | 11.51  | 35.44  | 194    | 335     | A       | H       |
|                                     | *    | 5260      | 107.05     | -      | -          | 96.2     | 34.57    | 11.66  | 35.38  | 194    | 335     | P       | H       |
|                                     | *    | 5260      | 99.15      | -      | -          | 88.3     | 34.57    | 11.66  | 35.38  | 194    | 335     | A       | H       |
|                                     |      | 5375.28   | 49.54      | -24.46 | 74         | 38.53    | 34.57    | 11.78  | 35.34  | 194    | 335     | P       | H       |
|                                     |      | 5352      | 40.87      | -13.13 | 54         | 29.96    | 34.5     | 11.76  | 35.35  | 194    | 335     | A       | H       |
|                                     |      | 5077.35   | 52.68      | -21.32 | 74         | 42.39    | 34.23    | 11.5   | 35.44  | 184    | 24      | P       | V       |
|                                     |      | 5098.7    | 42.63      | -11.37 | 54         | 32.26    | 34.3     | 11.51  | 35.44  | 184    | 24      | A       | V       |
|                                     | *    | 5260      | 109.9      | -      | -          | 99.05    | 34.57    | 11.66  | 35.38  | 184    | 24      | P       | V       |
|                                     | *    | 5260      | 101.87     | -      | -          | 91.02    | 34.57    | 11.66  | 35.38  | 184    | 24      | A       | V       |
|                                     |      | 5356.08   | 51.39      | -22.61 | 74         | 40.48    | 34.5     | 11.76  | 35.35  | 184    | 24      | P       | V       |
|                                     |      | 5365.44   | 42.22      | -11.78 | 54         | 31.23    | 34.57    | 11.77  | 35.35  | 184    | 24      | A       | V       |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5145.25   | 50.37      | -23.63 | 74         | 39.84    | 34.4     | 11.55  | 35.42  | 188    | 335     | P       | H       |
|                                     |      | 5077.7    | 40.81      | -13.19 | 54         | 30.52    | 34.23    | 11.5   | 35.44  | 188    | 335     | A       | H       |
|                                     | *    | 5300      | 106.64     | -      | -          | 95.61    | 34.7     | 11.7   | 35.37  | 188    | 335     | P       | H       |
|                                     | *    | 5300      | 98.74      | -      | -          | 87.71    | 34.7     | 11.7   | 35.37  | 188    | 335     | A       | H       |
|                                     |      | 5351.04   | 55.22      | -18.78 | 74         | 44.31    | 34.5     | 11.76  | 35.35  | 188    | 335     | P       | H       |
|                                     |      | 5350.08   | 43.52      | -10.48 | 54         | 32.61    | 34.5     | 11.76  | 35.35  | 188    | 335     | A       | H       |
|                                     |      | 5013.3    | 51.25      | -22.75 | 74         | 41.18    | 34.1     | 11.44  | 35.47  | 179    | 24      | P       | V       |
|                                     |      | 5137.9    | 42.35      | -11.65 | 54         | 31.85    | 34.37    | 11.55  | 35.42  | 179    | 24      | A       | V       |
|                                     | *    | 5300      | 109.84     | -      | -          | 98.81    | 34.7     | 11.7   | 35.37  | 179    | 24      | P       | V       |
|                                     | *    | 5300      | 101.84     | -      | -          | 90.81    | 34.7     | 11.7   | 35.37  | 179    | 24      | A       | V       |
|                                     |      | 5354.88   | 58.99      | -15.01 | 74         | 48.08    | 34.5     | 11.76  | 35.35  | 179    | 24      | P       | V       |
|                                     |      | 5350.08   | 45.6       | -8.4   | 54         | 34.69    | 34.5     | 11.76  | 35.35  | 179    | 24      | A       | V       |



|   |   |         |        |        |    |       |       |       |       |     |     |   |   |
|---|---|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n<br/>HT20<br/>CH 64<br/>5320MHz</b> | *   | 5320    | 105.2  | -      | -  | 94.2  | 34.63 | 11.73 | 35.36 | 197 | 336 | P | H |
|   | *   | 5320    | 97.4   | -      | -  | 86.4  | 34.63 | 11.73 | 35.36 | 197 | 336 | A | H |
|   |   | 5355.6  | 61.25  | -12.75 | 74 | 50.34 | 34.5  | 11.76 | 35.35 | 197 | 336 | P | H |
|   |   | 5350.08 | 45.79  | -8.21  | 54 | 34.88 | 34.5  | 11.76 | 35.35 | 197 | 336 | A | H |
|   |   |         |        |        |    |       |       |       |       |     |     |   | H |
|   |   |         |        |        |    |       |       |       |       |     |     |   | H |
|   | *   | 5320    | 108.56 | -      | -  | 97.56 | 34.63 | 11.73 | 35.36 | 181 | 20  | P | V |
|   | *   | 5320    | 100.22 | -      | -  | 89.22 | 34.63 | 11.73 | 35.36 | 181 | 20  | A | V |
|   |   | 5352.48 | 62.79  | -11.21 | 74 | 51.88 | 34.5  | 11.76 | 35.35 | 181 | 20  | P | V |
|   |   | 5350.56 | 48.09  | -5.91  | 54 | 37.18 | 34.5  | 11.76 | 35.35 | 181 | 20  | A | V |
|   |   |         |        |        |    |       |       |       |       |     |     | V |   |
|   |   |         |        |        |    |       |       |       |       |     |     | V |   |
| <b>Remark</b>                                 | <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> </ol> |         |        |        |    |       |       |       |       |     |     |   |   |



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

| WIFI                                | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 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     | 44.82      | -23.38 | 68.2       | 48.44    | 37.6     | 17.7   | 58.92  | 100    | 0       | P       | H       |
|                                     |   | 15780     | 49.68      | -24.32 | 74         | 44.09    | 40.53    | 21.8   | 56.74  | 100    | 0       | P       | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   | 10520     | 44.77      | -23.43 | 68.2       | 48.39    | 37.6     | 17.7   | 58.92  | 100    | 0       | P       | V       |
|                                     |   | 15780     | 48.42      | -25.58 | 74         | 42.83    | 40.53    | 21.8   | 56.74  | 100    | 0       | P       | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |   | 10600     | 44.42      | -29.58 | 74         | 47.94    | 37.6     | 17.76  | 58.88  | 100    | 0       | P       | H       |
|                                     |   | 15900     | 49.77      | -24.23 | 74         | 43.8     | 40.8     | 21.89  | 56.72  | 100    | 0       | P       | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   | 10600     | 45.72      | -28.28 | 74         | 49.24    | 37.6     | 17.76  | 58.88  | 100    | 0       | P       | V       |
|                                     |   | 15900     | 49.74      | -24.26 | 74         | 43.77    | 40.8     | 21.89  | 56.72  | 100    | 0       | P       | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |   | 10640     | 44.19      | -29.81 | 74         | 47.63    | 37.63    | 17.79  | 58.86  | 100    | 0       | P       | H       |
|                                     |   | 15960     | 46.83      | -27.17 | 74         | 40.81    | 40.8     | 21.93  | 56.71  | 100    | 0       | P       | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   | 10640     | 45.37      | -28.63 | 74         | 48.81    | 37.63    | 17.79  | 58.86  | 100    | 0       | P       | V       |
|                                     |   | 15960     | 48.01      | -25.99 | 74         | 41.99    | 40.8     | 21.93  | 56.71  | 100    | 0       | P       | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |





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

| WIFI                                | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 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 |   | 5099.75   | 49.55      | -24.45 | 74         | 39.18    | 34.3     | 11.51  | 35.44  | 199    | 336     | P       | H       |
|                                     |   | 5101.5    | 40.99      | -13.01 | 54         | 30.61    | 34.3     | 11.52  | 35.44  | 199    | 336     | A       | H       |
|                                     | *   | 5270      | 102.95     | -      | -          | 92.09    | 34.57    | 11.67  | 35.38  | 199    | 336     | P       | H       |
|                                     | *   | 5270      | 95.06      | -      | -          | 84.2     | 34.57    | 11.67  | 35.38  | 199    | 336     | A       | H       |
|                                     |   | 5364.72   | 52.28      | -21.72 | 74         | 41.29    | 34.57    | 11.77  | 35.35  | 199    | 336     | P       | H       |
|                                     |   | 5350.08   | 42.48      | -11.52 | 54         | 31.57    | 34.5     | 11.76  | 35.35  | 199    | 336     | A       | H       |
|                                     |   | 5021.35   | 52.27      | -21.73 | 74         | 42.18    | 34.1     | 11.45  | 35.46  | 191    | 22      | P       | V       |
|                                     |   | 5088.2    | 42.61      | -11.39 | 54         | 32.32    | 34.23    | 11.5   | 35.44  | 191    | 22      | A       | V       |
|                                     | *   | 5270      | 105.76     | -      | -          | 94.9     | 34.57    | 11.67  | 35.38  | 191    | 22      | P       | V       |
|                                     | *   | 5270      | 98.03      | -      | -          | 87.17    | 34.57    | 11.67  | 35.38  | 191    | 22      | A       | V       |
|                                     |   | 5353.44   | 54.11      | -19.89 | 74         | 43.2     | 34.5     | 11.76  | 35.35  | 191    | 22      | P       | V       |
|                                     |   | 5350.08   | 44.34      | -9.66  | 54         | 33.43    | 34.5     | 11.76  | 35.35  | 191    | 22      | A       | V       |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |   | 5117.6    | 49.58      | -24.42 | 74         | 39.15    | 34.33    | 11.53  | 35.43  | 188    | 334     | P       | H       |
|                                     |   | 5142.1    | 40.45      | -13.55 | 54         | 29.92    | 34.4     | 11.55  | 35.42  | 188    | 334     | A       | H       |
|                                     | *   | 5310      | 101.04     | -      | -          | 90.05    | 34.63    | 11.72  | 35.36  | 188    | 334     | P       | H       |
|                                     | *   | 5310      | 93.28      | -      | -          | 82.29    | 34.63    | 11.72  | 35.36  | 188    | 334     | A       | H       |
|                                     |   | 5353.68   | 55.98      | -18.02 | 74         | 45.07    | 34.5     | 11.76  | 35.35  | 188    | 334     | P       | H       |
|                                     |   | 5350.08   | 48.15      | -5.85  | 54         | 37.24    | 34.5     | 11.76  | 35.35  | 188    | 334     | A       | H       |
|                                     |   | 5094.85   | 51.76      | -22.24 | 74         | 41.39    | 34.3     | 11.51  | 35.44  | 184    | 23      | P       | V       |
|                                     |   | 5148.05   | 41.67      | -12.33 | 54         | 31.13    | 34.4     | 11.56  | 35.42  | 184    | 23      | A       | V       |
|                                     | *   | 5310      | 103.78     | -      | -          | 92.79    | 34.63    | 11.72  | 35.36  | 184    | 23      | P       | V       |
|                                     | *   | 5310      | 95.88      | -      | -          | 84.89    | 34.63    | 11.72  | 35.36  | 184    | 23      | A       | V       |
|                                     |   | 5350.08   | 59.25      | -14.75 | 74         | 48.34    | 34.5     | 11.76  | 35.35  | 184    | 23      | P       | V       |
|                                     |   | 5350.08   | 50.52      | -3.48  | 54         | 39.61    | 34.5     | 11.76  | 35.35  | 184    | 23      | A       | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|-------------------------------------|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 2                              |   | ( MHz )   | ( dBμV/m ) | ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 54<br>5270MHz |   | 10540     | 44.22      | -23.98 | 68.2            | 47.82          | 37.6            | 17.71       | 58.91         | 100        | 0           | P            | H       |
|                                     |   | 15810     | 46.4       | -27.6  | 74              | 40.81          | 40.5            | 21.82       | 56.73         | 100        | 0           | P            | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   | 10540     | 44.05      | -24.15 | 68.2            | 47.65          | 37.6            | 17.71       | 58.91         | 100        | 0           | P            | V       |
|                                     |   | 15810     | 47.45      | -26.55 | 74              | 41.86          | 40.5            | 21.82       | 56.73         | 100        | 0           | P            | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |   | 10620     | 44.18      | -29.82 | 74              | 47.65          | 37.62           | 17.78       | 58.87         | 100        | 0           | P            | H       |
|                                     |   | 15930     | 47.69      | -26.31 | 74              | 41.69          | 40.8            | 21.91       | 56.71         | 100        | 0           | P            | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                     |   | 10620     | 44.36      | -29.64 | 74              | 47.83          | 37.62           | 17.78       | 58.87         | 100        | 0           | P            | V       |
|                                     |   | 15930     | 48.05      | -25.95 | 74              | 42.05          | 40.8            | 21.91       | 56.71         | 100        | 0           | P            | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                     |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| <b>Remark</b>                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |



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

| WIFI  | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.  |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 2   |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| <b>802.11ac</b><br><b>VHT80</b><br><b>CH 58</b><br><b>5290MHz</b> |   | 5140.35   | 52.21      | -21.79 | 74         | 41.68    | 34.4     | 11.55  | 35.42  | 198    | 336     | P       | H       |
|   |   | 5149.8    | 42.91      | -11.09 | 54         | 32.37    | 34.4     | 11.56  | 35.42  | 198    | 336     | A       | H       |
|   | *   | 5290      | 96.27      | -      | -          | 85.32    | 34.63    | 11.69  | 35.37  | 198    | 336     | P       | H       |
|   | *   | 5290      | 88.56      | -      | -          | 77.61    | 34.63    | 11.69  | 35.37  | 198    | 336     | A       | H       |
|   |   | 5369.52   | 56.14      | -17.86 | 74         | 45.13    | 34.57    | 11.78  | 35.34  | 198    | 336     | P       | H       |
|   |   | 5350.08   | 48.24      | -5.76  | 54         | 37.33    | 34.5     | 11.76  | 35.35  | 198    | 336     | A       | H       |
|   |   | 5131.25   | 54.09      | -19.91 | 74         | 43.61    | 34.37    | 11.54  | 35.43  | 186    | 27      | P       | V       |
|   |   | 5149.45   | 45.37      | -8.63  | 54         | 34.83    | 34.4     | 11.56  | 35.42  | 186    | 27      | A       | V       |
|   | *   | 5290      | 99.12      | -      | -          | 88.17    | 34.63    | 11.69  | 35.37  | 186    | 27      | P       | V       |
|   | *   | 5290      | 91.16      | -      | -          | 80.21    | 34.63    | 11.69  | 35.37  | 186    | 27      | A       | V       |
|   | 5359.2  | 60.04     | -13.96     | 74     | 49.12      | 34.5     | 11.77    | 35.35  | 186    | 27     | P       | V       |         |
|   | 5350.08   | 50.53     | -3.47      | 54     | 39.62      | 34.5     | 11.76    | 35.35  | 186    | 27     | A       | V       |         |
| <b>Remark</b>   | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                  | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|---------------------------------------|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 2                                |   | ( MHz )   | ( dBμV/m ) | ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 10580     | 43.74      | -24.46 | 68.2            | 47.28          | 37.6            | 17.75       | 58.89         | 100        | 0           | P            | H       |
|                                       |   | 15870     | 47.94      | -26.06 | 74              | 42.05          | 40.74           | 21.87       | 56.72         | 100        | 0           | P            | H       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|                                       |   | 10580     | 44.69      | -23.51 | 68.2            | 48.23          | 37.6            | 17.75       | 58.89         | 100        | 0           | P            | V       |
|                                       |   | 15870     | 47.83      | -26.17 | 74              | 41.94          | 40.74           | 21.87       | 56.72         | 100        | 0           | P            | V       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|                                       |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |



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

| WIFI                         | Note | Frequency | Level      | Over            | Limit              | Read              | Antenna            | Path           | Preamp           | Ant           | Table          | Peak            | Pol.    |   |
|------------------------------|------|-----------|------------|-----------------|--------------------|-------------------|--------------------|----------------|------------------|---------------|----------------|-----------------|---------|---|
| Ant.<br>2                    |      | ( MHz )   | ( dBμV/m ) | Limit<br>( dB ) | Line<br>( dBμV/m ) | Level<br>( dBμV ) | Factor<br>( dB/m ) | Loss<br>( dB ) | Factor<br>( dB ) | Pos<br>( cm ) | Pos<br>( deg ) | Avg.<br>( P/A ) | ( H/V ) |   |
| 802.11a<br>CH 100<br>5500MHz |      | 5460.08   | 58.48      | -9.72           | 68.2               | 47.21             | 34.7               | 11.88          | 35.31            | 247           | 337            | P               | H       |   |
|                              |      | 5468.88   | 62.52      | -5.68           | 68.2               | 51.14             | 34.8               | 11.89          | 35.31            | 247           | 337            | P               | H       |   |
|                              |      | 5460      | 44.46      | -9.54           | 54                 | 33.19             | 34.7               | 11.88          | 35.31            | 247           | 337            | A               | H       |   |
|                              | *    | 5500      | 107.68     | -               | -                  | 96.05             | 35                 | 11.93          | 35.3             | 247           | 337            | P               | H       |   |
|                              | *    | 5500      | 99.53      | -               | -                  | 87.9              | 35                 | 11.93          | 35.3             | 247           | 337            | A               | H       |   |
|                              |      |           |            |                 |                    |                   |                    |                |                  |               |                |                 |         | H |
|                              |      |           | 5456.88    | 59.41           | -14.59             | 74                | 48.14              | 34.7           | 11.88            | 35.31         | 215            | 13              | P       | V |
|                              |      |           | 5468.88    | 62.48           | -5.72              | 68.2              | 51.1               | 34.8           | 11.89            | 35.31         | 215            | 13              | P       | V |
|                              |      |           | 5460       | 46.04           | -7.96              | 54                | 34.77              | 34.7           | 11.88            | 35.31         | 215            | 13              | A       | V |
|                              | *    |           | 5500       | 109.83          | -                  | -                 | 98.2               | 35             | 11.93            | 35.3          | 215            | 13              | P       | V |
|                              | *    |           | 5500       | 101.76          | -                  | -                 | 90.13              | 35             | 11.93            | 35.3          | 215            | 13              | A       | V |
|                              |      |           |            |                 |                    |                   |                    |                |                  |               |                |                 |         | V |
| 802.11a<br>CH 116<br>5580MHz |      | 5393.2    | 49.27      | -24.73          | 74                 | 38.18             | 34.63              | 11.8           | 35.34            | 138           | 324            | P               | H       |   |
|                              |      | 5464.48   | 49.56      | -18.64          | 68.2               | 38.19             | 34.8               | 11.88          | 35.31            | 138           | 324            | P               | H       |   |
|                              |      | 5428      | 40.43      | -13.57          | 54                 | 29.21             | 34.7               | 11.84          | 35.32            | 138           | 324            | A               | H       |   |
|                              | *    | 5580      | 107.98     | -               | -                  | 96.4              | 34.87              | 12.02          | 35.31            | 138           | 324            | P               | H       |   |
|                              | *    | 5580      | 99.88      | -               | -                  | 88.3              | 34.87              | 12.02          | 35.31            | 138           | 324            | A               | H       |   |
|                              |      |           | 5762.48    | 50.85           | -17.35             | 68.2              | 38.87              | 35             | 12.31            | 35.33         | 138            | 324             | P       | H |
|                              |      |           | 5374       | 49.71           | -24.29             | 74                | 38.7               | 34.57          | 11.78            | 35.34         | 227            | 13              | P       | V |
|                              |      |           | 5466.16    | 50.55           | -17.65             | 68.2              | 39.17              | 34.8           | 11.89            | 35.31         | 227            | 13              | P       | V |
|                              |      |           | 5433.76    | 41.05           | -12.95             | 54                | 29.82              | 34.7           | 11.85            | 35.32         | 227            | 13              | A       | V |
|                              | *    |           | 5580       | 109.78          | -                  | -                 | 98.2               | 34.87          | 12.02            | 35.31         | 227            | 13              | P       | V |
|                              | *    |           | 5580       | 101.78          | -                  | -                 | 90.2               | 34.87          | 12.02            | 35.31         | 227            | 13              | A       | V |
|                              |      |           | 5737.595   | 51.5            | -16.7              | 68.2              | 39.55              | 35             | 12.27            | 35.32         | 227            | 13              | P       | V |



|   |   |         |        |       |      |       |    |       |       |     |     |   |   |
|---|---|---------|--------|-------|------|-------|----|-------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 140</b><br><b>5700MHz</b> | *   | 5700    | 104.58 | -     | -    | 92.7  | 35 | 12.2  | 35.32 | 172 | 2   | P | H |
|   | *   | 5700    | 96.58  | -     | -    | 84.7  | 35 | 12.2  | 35.32 | 172 | 2   | A | H |
|   |   | 5729    | 60.26  | -7.94 | 68.2 | 48.33 | 35 | 12.25 | 35.32 | 172 | 2   | P | H |
|   |   |         |        |       |      |       |    |       |       |     |     |   | H |
|   |   |         |        |       |      |       |    |       |       |     |     |   | H |
|   |   |         |        |       |      |       |    |       |       |     |     |   | H |
|   | *   | 5700    | 106.68 | -     | -    | 94.8  | 35 | 12.2  | 35.32 | 206 | 360 | P | V |
|   | *   | 5700    | 99.31  | -     | -    | 87.43 | 35 | 12.2  | 35.32 | 206 | 360 | A | V |
|   |   | 5725.72 | 64.16  | -4.04 | 68.2 | 52.23 | 35 | 12.25 | 35.32 | 206 | 360 | P | V |
|   |   |         |        |       |      |       |    |       |       |     |     |   | V |
|   |   |         |        |       |      |       |    |       |       |     |     | V |   |
|   |   |         |        |       |      |       |    |       |       |     |     | V |   |
| <b>Remark</b>                                     | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |       |    |       |       |     |     |   |   |



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

| WIFI                         | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 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     | 45.45      | -28.55 | 74         | 48.19    | 37.9     | 18.05  | 58.69  | 100    | 0       | P       | H       |
|                              |   | 16500     | 45.82      | -22.38 | 68.2       | 38.26    | 41.6     | 22.38  | 56.42  | 100    | 0       | P       | H       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |   | 11000     | 47.02      | -26.98 | 74         | 49.76    | 37.9     | 18.05  | 58.69  | 100    | 0       | P       | V       |
|                              |   | 16500     | 45.78      | -22.42 | 68.2       | 38.22    | 41.6     | 22.38  | 56.42  | 100    | 0       | P       | V       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 116<br>5580MHz |   | 4185      | 50.43      | -23.57 | 74         | 41.85    | 33.37    | 10.58  | 35.37  | 267    | 346     | P       | H       |
|                              |   | 4185      | 40.82      | -13.18 | 54         | 32.24    | 33.37    | 10.58  | 35.37  | 267    | 346     | A       | H       |
|                              |   | 11160     | 48.07      | -25.93 | 74         | 50       | 37.9     | 18.19  | 58.02  | 100    | 0       | P       | H       |
|                              |   | 16740     | 53.05      | -15.15 | 68.2       | 44.61    | 42.36    | 22.58  | 56.5   | 100    | 0       | P       | H       |
|                              |   | 4185      | 51.64      | -22.36 | 74         | 43.06    | 33.37    | 10.58  | 35.37  | 210    | 32      | P       | V       |
|                              |   | 4185      | 42.18      | -11.82 | 54         | 33.6     | 33.37    | 10.58  | 35.37  | 210    | 32      | A       | V       |
|                              |   | 11160     | 48.79      | -25.21 | 74         | 50.72    | 37.9     | 18.19  | 58.02  | 100    | 0       | P       | V       |
|                              |   | 16740     | 52.49      | -15.71 | 68.2       | 44.05    | 42.36    | 22.58  | 56.5   | 100    | 0       | P       | V       |
| 802.11a<br>CH 140<br>5700MHz |   | 11400     | 42.78      | -31.22 | 74         | 44.01    | 38.1     | 18.41  | 57.74  | 100    | 0       | P       | H       |
|                              |   | 17100     | 46.9       | -21.3  | 68.2       | 38.3     | 42       | 22.87  | 56.27  | 100    | 0       | P       | H       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |   | 11400     | 43.52      | -30.48 | 74         | 44.75    | 38.1     | 18.41  | 57.74  | 100    | 0       | P       | V       |
|                              |   | 17100     | 46.87      | -21.33 | 68.2       | 38.27    | 42       | 22.87  | 56.27  | 100    | 0       | P       | V       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                 | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |   |
|--------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|---|
| Ant.                                 |      | ( 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 |      | 5458.96   | 57.51      | -16.49 | 74         | 46.24    | 34.7     | 11.88  | 35.31  | 247    | 337     | P       | H       |   |
|                                      |      | 5469.04   | 59.9       | -8.3   | 68.2       | 48.52    | 34.8     | 11.89  | 35.31  | 247    | 337     | P       | H       |   |
|                                      |      | 5460      | 44.35      | -9.65  | 54         | 33.08    | 34.7     | 11.88  | 35.31  | 247    | 337     | A       | H       |   |
|                                      | *    | 5500      | 107.12     | -      | -          | 95.49    | 35       | 11.93  | 35.3   | 247    | 337     | P       | H       |   |
|                                      | *    | 5500      | 99.12      | -      | -          | 87.49    | 35       | 11.93  | 35.3   | 247    | 337     | A       | H       |   |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                      |      |           | 5458.64    | 59.05  | -14.95     | 74       | 47.78    | 34.7   | 11.88  | 35.31  | 215     | 13      | P       | V |
|                                      |      |           | 5469.36    | 62.86  | -5.34      | 68.2     | 51.48    | 34.8   | 11.89  | 35.31  | 215     | 13      | P       | V |
|                                      |      |           | 5460       | 45.97  | -8.03      | 54       | 34.7     | 34.7   | 11.88  | 35.31  | 215     | 13      | A       | V |
|                                      |      | *         | 5500       | 109.43 | -          | -        | 97.8     | 35     | 11.93  | 35.3   | 215     | 13      | P       | V |
|                                      | *    | 5500      | 101.72     | -      | -          | 90.09    | 35       | 11.93  | 35.3   | 215    | 13      | A       | V       |   |
|                                      |      |           |            |        |            |          |          |        |        |        |         |         | V       |   |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5357.68   | 49.66      | -24.34 | 74         | 38.74    | 34.5     | 11.77  | 35.35  | 137    | 324     | P       | H       |   |
|                                      |      | 5469.04   | 48.76      | -19.44 | 68.2       | 37.38    | 34.8     | 11.89  | 35.31  | 137    | 324     | P       | H       |   |
|                                      |      | 5408.08   | 40.56      | -13.44 | 54         | 29.37    | 34.7     | 11.82  | 35.33  | 137    | 324     | A       | H       |   |
|                                      | *    | 5580      | 107.28     | -      | -          | 95.7     | 34.87    | 12.02  | 35.31  | 137    | 324     | P       | H       |   |
|                                      | *    | 5580      | 99.48      | -      | -          | 87.9     | 34.87    | 12.02  | 35.31  | 137    | 324     | A       | H       |   |
|                                      |      |           | 5760.275   | 50.82  | -17.38     | 68.2     | 38.85    | 35     | 12.3   | 35.33  | 137     | 324     | P       | H |
|                                      |      |           | 5403.04    | 50.17  | -23.83     | 74       | 38.99    | 34.7   | 11.81  | 35.33  | 227     | 13      | P       | V |
|                                      |      |           | 5462.8     | 48.66  | -19.54     | 68.2     | 37.29    | 34.8   | 11.88  | 35.31  | 227     | 13      | P       | V |
|                                      |      |           | 5458.24    | 41.11  | -12.89     | 54       | 29.84    | 34.7   | 11.88  | 35.31  | 227     | 13      | A       | V |
|                                      |      | *         | 5580       | 109.38 | -          | -        | 97.8     | 34.87  | 12.02  | 35.31  | 227     | 13      | P       | V |
|                                      | *    | 5580      | 101.66     | -      | -          | 90.08    | 34.87    | 12.02  | 35.31  | 227    | 13      | A       | V       |   |
|                                      |      | 5726.885  | 50.56      | -17.64 | 68.2       | 38.63    | 35       | 12.25  | 35.32  | 227    | 13      | P       | V       |   |





|                                      |   |         |        |       |      |       |    |       |       |     |   |   |   |
|--------------------------------------|---|---------|--------|-------|------|-------|----|-------|-------|-----|---|---|---|
| 802.11n<br>HT20<br>CH 140<br>5700MHz | *   | 5700    | 105.56 | -     | -    | 93.68 | 35 | 12.2  | 35.32 | 100 | 5 | P | H |
|                                      | *   | 5700    | 98     | -     | -    | 86.12 | 35 | 12.2  | 35.32 | 100 | 5 | A | H |
|                                      |   | 5730.6  | 60     | -8.2  | 68.2 | 48.06 | 35 | 12.26 | 35.32 | 100 | 5 | P | H |
|                                      |   |         |        |       |      |       |    |       |       |     |   |   | H |
|                                      |   |         |        |       |      |       |    |       |       |     |   |   | H |
|                                      |   |         |        |       |      |       |    |       |       |     |   |   | H |
|                                      | *   | 5700    | 107.04 | -     | -    | 95.16 | 35 | 12.2  | 35.32 | 249 | 8 | P | V |
|                                      | *   | 5700    | 99.64  | -     | -    | 87.76 | 35 | 12.2  | 35.32 | 249 | 8 | A | V |
|                                      |   | 5725.16 | 62.54  | -5.66 | 68.2 | 50.61 | 35 | 12.25 | 35.32 | 249 | 8 | P | V |
|                                      |   |         |        |       |      |       |    |       |       |     |   |   | V |
|                                      |   |         |        |       |      |       |    |       |       |     |   | V |   |
|                                      |   |         |        |       |      |       |    |       |       |     |   | V |   |
| <b>Remark</b>                        | <ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> </ol> |         |        |       |      |       |    |       |       |     |   |   |   |



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

| WIFI                                 | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 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     | 45.65      | -28.35 | 74         | 48.39    | 37.9     | 18.05  | 58.69  | 100    | 0       | P       | H       |
|                                      |   | 16500     | 45.7       | -22.5  | 68.2       | 38.14    | 41.6     | 22.38  | 56.42  | 100    | 0       | P       | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   | 11000     | 44.61      | -29.39 | 74         | 47.35    | 37.9     | 18.05  | 58.69  | 100    | 0       | P       | V       |
|                                      |   | 16500     | 45.84      | -22.36 | 68.2       | 38.28    | 41.6     | 22.38  | 56.42  | 100    | 0       | P       | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |   | 11160     | 45.73      | -28.27 | 74         | 47.95    | 37.9     | 18.19  | 58.31  | 100    | 0       | P       | H       |
|                                      |   | 16740     | 44.29      | -23.91 | 68.2       | 35.68    | 42.36    | 22.58  | 56.33  | 100    | 0       | P       | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   | 11160     | 44.83      | -29.17 | 74         | 47.05    | 37.9     | 18.19  | 58.31  | 100    | 0       | P       | V       |
|                                      |   | 16740     | 44.52      | -23.68 | 68.2       | 35.91    | 42.36    | 22.58  | 56.33  | 100    | 0       | P       | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |   | 11400     | 42.44      | -31.56 | 74         | 43.67    | 38.1     | 18.41  | 57.74  | 100    | 0       | P       | H       |
|                                      |   | 17100     | 48.48      | -19.72 | 68.2       | 39.88    | 42       | 22.87  | 56.27  | 100    | 0       | P       | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   | 11400     | 43.48      | -30.52 | 74         | 44.71    | 38.1     | 18.41  | 57.74  | 100    | 0       | P       | V       |
|                                      |   | 17100     | 46.71      | -21.49 | 68.2       | 38.11    | 42       | 22.87  | 56.27  | 100    | 0       | P       | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                 | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                 |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 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 |      | 5458.72   | 55.52      | -18.48 | 74         | 44.25    | 34.7     | 11.88  | 35.31  | 195    | 328     | P       | H       |
|                                      |      | 5467.6    | 62.44      | -5.76  | 68.2       | 51.06    | 34.8     | 11.89  | 35.31  | 195    | 328     | P       | H       |
|                                      |      | 5459.92   | 46.98      | -7.02  | 54         | 35.71    | 34.7     | 11.88  | 35.31  | 195    | 328     | A       | H       |
|                                      | *    | 5510      | 101.93     | -      | -          | 90.29    | 35       | 11.94  | 35.3   | 195    | 328     | P       | H       |
|                                      | *    | 5510      | 95.83      | -      | -          | 84.19    | 35       | 11.94  | 35.3   | 195    | 328     | A       | H       |
|                                      |      | 5736.02   | 48.24      | -19.96 | 68.2       | 36.3     | 35       | 12.26  | 35.32  | 195    | 328     | P       | H       |
|                                      |      | 5459.92   | 55.76      | -18.24 | 74         | 44.49    | 34.7     | 11.88  | 35.31  | 243    | 25      | P       | V       |
|                                      |      | 5462.32   | 63.6       | -4.6   | 68.2       | 52.33    | 34.7     | 11.88  | 35.31  | 243    | 25      | P       | V       |
|                                      |      | 5459.92   | 48.8       | -5.2   | 54         | 37.53    | 34.7     | 11.88  | 35.31  | 243    | 25      | A       | V       |
|                                      | *    | 5510      | 103.8      | -      | -          | 92.16    | 35       | 11.94  | 35.3   | 243    | 25      | P       | V       |
|                                      | *    | 5510      | 97.48      | -      | -          | 85.84    | 35       | 11.94  | 35.3   | 243    | 25      | A       | V       |
|                                      |      | 5759.96   | 53.38      | -14.82 | 68.2       | 41.41    | 35       | 12.3   | 35.33  | 243    | 25      | P       | V       |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |      | 5392.72   | 47.95      | -26.05 | 74         | 36.86    | 34.63    | 11.8   | 35.34  | 252    | 327     | P       | H       |
|                                      |      | 5466.4    | 48.61      | -19.59 | 68.2       | 37.23    | 34.8     | 11.89  | 35.31  | 252    | 327     | P       | H       |
|                                      |      | 5459.68   | 40.36      | -13.64 | 54         | 29.09    | 34.7     | 11.88  | 35.31  | 252    | 327     | A       | H       |
|                                      | *    | 5550      | 102.04     | -      | -          | 90.57    | 34.8     | 11.98  | 35.31  | 252    | 327     | P       | H       |
|                                      | *    | 5550      | 95.74      | -      | -          | 84.27    | 34.8     | 11.98  | 35.31  | 252    | 327     | A       | H       |
|                                      |      | 5760.275  | 49.31      | -18.89 | 68.2       | 37.34    | 35       | 12.3   | 35.33  | 252    | 327     | P       | H       |
|                                      |      | 5457.04   | 48.61      | -25.39 | 74         | 37.34    | 34.7     | 11.88  | 35.31  | 251    | 7       | P       | V       |
|                                      |      | 5464.72   | 50.04      | -18.16 | 68.2       | 38.67    | 34.8     | 11.88  | 35.31  | 251    | 7       | P       | V       |
|                                      |      | 5458.96   | 41.29      | -12.71 | 54         | 30.02    | 34.7     | 11.88  | 35.31  | 251    | 7       | A       | V       |
|                                      | *    | 5550      | 103.77     | -      | -          | 92.3     | 34.8     | 11.98  | 35.31  | 251    | 7       | P       | V       |
|                                      | *    | 5550      | 97.51      | -      | -          | 86.04    | 34.8     | 11.98  | 35.31  | 251    | 7       | A       | V       |
|                                      |      | 5759.96   | 51.35      | -16.85 | 68.2       | 39.38    | 35       | 12.3   | 35.33  | 251    | 7       | P       | V       |



|  |   |          |        |        |       |       |       |       |       |     |     |   |   |
|--|---|----------|--------|--------|-------|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT40</b><br><b>CH 134</b><br><b>5670MHz</b> |   | 5369.25  | 49.95  | -24.05 | 74    | 38.94 | 34.57 | 11.78 | 35.34 | 267 | 332 | P | H |
|  |   | 5460.25  | 48.03  | -20.17 | 68.2  | 36.76 | 34.7  | 11.88 | 35.31 | 267 | 332 | P | H |
|  |   | 5459.9   | 39.85  | -14.15 | 54    | 28.58 | 34.7  | 11.88 | 35.31 | 267 | 332 | A | H |
|  | *   | 5670     | 102.35 | -      | -     | 90.66 | 34.85 | 12.16 | 35.32 | 267 | 332 | P | H |
|  | *   | 5670     | 95.85  | -      | -     | 84.16 | 34.85 | 12.16 | 35.32 | 267 | 332 | A | H |
|  |   | 5730.875 | 60.85  | -7.35  | 68.2  | 48.91 | 35    | 12.26 | 35.32 | 267 | 332 | P | H |
|  |   | 5458.5   | 49.06  | -24.94 | 74    | 37.79 | 34.7  | 11.88 | 35.31 | 258 | 6   | P | V |
|  |   | 5461.65  | 47.65  | -20.55 | 68.2  | 36.38 | 34.7  | 11.88 | 35.31 | 258 | 6   | P | V |
|  |   | 5459.9   | 40.38  | -13.62 | 54    | 29.11 | 34.7  | 11.88 | 35.31 | 258 | 6   | A | V |
|  | *   | 5670     | 104.01 | -      | -     | 92.32 | 34.85 | 12.16 | 35.32 | 258 | 6   | P | V |
|  | *   | 5670     | 97.39  | -      | -     | 85.7  | 34.85 | 12.16 | 35.32 | 258 | 6   | A | V |
|  | 5725.625  | 63.34    | -4.86  | 68.2   | 51.41 | 35    | 12.25 | 35.32 | 258   | 6   | P   | V |   |
| <b>Remark</b>  | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |          |        |        |       |       |       |       |       |     |     |   |   |



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

| WIFI                                 | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. 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     | 43.15      | -30.85 | 74         | 45.83    | 37.9     | 18.06  | 58.64  | 100    | 0       | P       | H       |
|                                      |   | 16530     | 43.47      | -24.73 | 68.2       | 35.81    | 41.67    | 22.4   | 56.41  | 100    | 0       | P       | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   | 11020     | 44.79      | -29.21 | 74         | 47.47    | 37.9     | 18.06  | 58.64  | 100    | 0       | P       | V       |
|                                      |   | 16530     | 44.24      | -23.96 | 68.2       | 36.58    | 41.67    | 22.4   | 56.41  | 100    | 0       | P       | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |   | 11100     | 44.56      | -29.44 | 74         | 46.98    | 37.9     | 18.13  | 58.45  | 100    | 0       | P       | H       |
|                                      |   | 16650     | 43.11      | -25.09 | 68.2       | 34.88    | 42.1     | 22.5   | 56.37  | 100    | 0       | P       | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   | 11100     | 43.35      | -30.65 | 74         | 45.77    | 37.9     | 18.13  | 58.45  | 100    | 0       | P       | V       |
|                                      |   | 16650     | 44.37      | -23.83 | 68.2       | 36.14    | 42.1     | 22.5   | 56.37  | 100    | 0       | P       | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 11340     | 42.8       | -31.2  | 74         | 44.3     | 38.03    | 18.35  | 57.88  | 100    | 0       | P       | H       |
|                                      |   | 17010     | 44.04      | -24.16 | 68.2       | 35.3     | 42.17    | 22.81  | 56.24  | 100    | 0       | P       | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   | 11340     | 43.04      | -30.96 | 74         | 44.54    | 38.03    | 18.35  | 57.88  | 100    | 0       | P       | V       |
|                                      |   | 17010     | 44.1       | -24.1  | 68.2       | 35.36    | 42.17    | 22.81  | 56.24  | 100    | 0       | P       | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                   | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                   |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 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 |   | 5450.8    | 55.65      | -18.35 | 74         | 44.4     | 34.7     | 11.87  | 35.32  | 261    | 332     | P       | H       |
|  |   | 5469.76   | 57.74      | -10.46 | 68.2       | 46.36    | 34.8     | 11.89  | 35.31  | 261    | 332     | P       | H       |
|  |   | 5459.92   | 48.16      | -5.84  | 54         | 36.89    | 34.7     | 11.88  | 35.31  | 261    | 332     | A       | H       |
|  | *   | 5530      | 96.39      | -      | -          | 84.8     | 34.93    | 11.96  | 35.3   | 261    | 332     | P       | H       |
|  | *   | 5530      | 89.79      | -      | -          | 78.2     | 34.93    | 11.96  | 35.3   | 261    | 332     | A       | H       |
|  |   | 5749.25   | 50.74      | -17.46 | 68.2       | 38.77    | 35       | 12.29  | 35.32  | 261    | 332     | P       | H       |
|  |   | 5459.44   | 58.33      | -15.67 | 74         | 47.06    | 34.7     | 11.88  | 35.31  | 222    | 15      | P       | V       |
|  |   | 5466.4    | 58.93      | -9.27  | 68.2       | 47.55    | 34.8     | 11.89  | 35.31  | 222    | 15      | P       | V       |
|  |   | 5459.92   | 50.58      | -3.42  | 54         | 39.31    | 34.7     | 11.88  | 35.31  | 222    | 15      | A       | V       |
|  | *   | 5530      | 98.16      | -      | -          | 86.57    | 34.93    | 11.96  | 35.3   | 222    | 15      | P       | V       |
|  | *   | 5530      | 91.49      | -      | -          | 79.9     | 34.93    | 11.96  | 35.3   | 222    | 15      | A       | V       |
|  | 5759.96   | 53.48     | -14.72     | 68.2   | 41.51      | 35       | 12.3     | 35.33  | 222    | 15     | P       | V       |         |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 5441      | 51.19      | -22.81 | 74         | 39.95    | 34.7     | 11.86  | 35.32  | 264    | 332     | P       | H       |
|  |   | 5466.55   | 50.9       | -17.3  | 68.2       | 39.52    | 34.8     | 11.89  | 35.31  | 264    | 332     | P       | H       |
|  |   | 5457.8    | 42.6       | -11.4  | 54         | 31.33    | 34.7     | 11.88  | 35.31  | 264    | 332     | A       | H       |
|  | *   | 5610      | 95.86      | -      | -          | 84.11    | 35       | 12.06  | 35.31  | 264    | 332     | P       | H       |
|  | *   | 5610      | 89.75      | -      | -          | 78       | 35       | 12.06  | 35.31  | 264    | 332     | A       | H       |
|  |   | 5726.325  | 51.02      | -17.18 | 68.2       | 39.09    | 35       | 12.25  | 35.32  | 264    | 332     | P       | H       |
|  |   | 5457.1    | 52.28      | -21.72 | 74         | 41.01    | 34.7     | 11.88  | 35.31  | 192    | 7       | P       | V       |
|  |   | 5460.95   | 53.66      | -14.54 | 68.2       | 42.39    | 34.7     | 11.88  | 35.31  | 192    | 7       | P       | V       |
|  |   | 5459.9    | 43.99      | -10.01 | 54         | 32.72    | 34.7     | 11.88  | 35.31  | 192    | 7       | A       | V       |
|  | *   | 5610      | 97.98      | -      | -          | 86.23    | 35       | 12.06  | 35.31  | 192    | 7       | P       | V       |
|  | *   | 5610      | 91.33      | -      | -          | 79.58    | 35       | 12.06  | 35.31  | 192    | 7       | A       | V       |
|  | 5759.75   | 53.67     | -14.53     | 68.2   | 41.7       | 35       | 12.3     | 35.33  | 192    | 7      | P       | V       |         |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                   | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|--|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 2                                 |   | ( MHz )   | ( dBμV/m ) | ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 11060     | 43.62      | -30.38 | 74              | 46.17          | 37.9            | 18.1        | 58.55         | 100        | 0           | P            | H       |
|  |   | 16590     | 41.52      | -26.68 | 68.2            | 33.69          | 41.77           | 22.45       | 56.39         | 100        | 0           | P            | H       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|  |   | 11060     | 42.96      | -31.04 | 74              | 45.51          | 37.9            | 18.1        | 58.55         | 100        | 0           | P            | V       |
|  |   | 16590     | 42.17      | -26.03 | 68.2            | 34.34          | 41.77           | 22.45       | 56.39         | 100        | 0           | P            | V       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 11220     | 42.88      | -31.12 | 74              | 44.88          | 37.92           | 18.25       | 58.17         | 100        | 0           | P            | H       |
|  |   | 16830     | 43.14      | -25.06 | 68.2            | 34.48          | 42.3            | 22.66       | 56.3          | 100        | 0           | P            | H       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|  |   | 11220     | 43.42      | -30.58 | 74              | 45.42          | 37.92           | 18.25       | 58.17         | 100        | 0           | P            | V       |
|  |   | 16830     | 44.21      | -23.99 | 68.2            | 35.55          | 42.3            | 22.66       | 56.3          | 100        | 0           | P            | V       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| <b>Remark</b>                          | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |



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

| WIFI                                  | Note  | Frequency | Level      | Over   | Limit              | Read              | Antenna            | Path           | Preamp           | Ant           | Table          | Peak            | Pol.    |
|---------------------------------------|---|-----------|------------|--------|--------------------|-------------------|--------------------|----------------|------------------|---------------|----------------|-----------------|---------|
| Ant.<br>2                             |   | ( MHz )   | ( dBμV/m ) | ( dB ) | Line<br>( dBμV/m ) | Level<br>( dBμV ) | Factor<br>( dB/m ) | Loss<br>( dB ) | Factor<br>( dB ) | Pos<br>( cm ) | Pos<br>( deg ) | Avg.<br>( P/A ) | ( H/V ) |
| <b>802.11a<br/>CH 144<br/>5720MHz</b> |   | 5388.22   | 49.14      | -24.86 | 74                 | 38.05             | 34.63              | 11.8           | 35.34            | 262           | 332            | P               | H       |
|                                       |   | 5467.39   | 47.4       | -20.8  | 68.2               | 36.02             | 34.8               | 11.89          | 35.31            | 262           | 332            | P               | H       |
|                                       |   | 5455.69   | 39.6       | -14.4  | 54                 | 28.35             | 34.7               | 11.87          | 35.32            | 262           | 332            | A               | H       |
|                                       | *   | 5720      | 107.19     | -      | -                  | 95.27             | 35                 | 12.24          | 35.32            | 262           | 332            | P               | H       |
|                                       | *   | 5720      | 99.65      | -      | -                  | 87.73             | 35                 | 12.24          | 35.32            | 262           | 332            | A               | H       |
|                                       |   | 5881.25   | 51.14      | -17.06 | 68.2               | 38.94             | 35.13              | 12.41          | 35.34            | 262           | 332            | P               | H       |
|                                       |   | 5458.81   | 49.67      | -24.33 | 74                 | 38.4              | 34.7               | 11.88          | 35.31            | 200           | 6              | P               | V       |
|                                       |   | 5465.44   | 48.27      | -19.93 | 68.2               | 36.89             | 34.8               | 11.89          | 35.31            | 200           | 6              | P               | V       |
|                                       |   | 5459.59   | 40.14      | -13.86 | 54                 | 28.87             | 34.7               | 11.88          | 35.31            | 200           | 6              | A               | V       |
|                                       | *   | 5720      | 108.87     | -      | -                  | 96.95             | 35                 | 12.24          | 35.32            | 200           | 6              | P               | V       |
|                                       | *   | 5720      | 101.48     | -      | -                  | 89.56             | 35                 | 12.24          | 35.32            | 200           | 6              | A               | V       |
|                                       |   | 5858.75   | 50.4       | -17.8  | 68.2               | 38.27             | 35.07              | 12.4           | 35.34            | 200           | 6              | P               | V       |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                    |                   |                    |                |                  |               |                |                 |         |





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

| WIFI                                  | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.<br>2                             |   | ( MHz )   | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| <b>802.11a<br/>CH 144<br/>5720MHz</b> |   | 11440     | 43.99      | -30.01 | 74         | 45.06    | 38.13    | 18.44  | 57.64  | 100    | 0       | P       | H       |
|                                       |   | 17160     | 49.4       | -18.8  | 68.2       | 41.05    | 41.73    | 22.91  | 56.29  | 100    | 0       | P       | H       |
|                                       |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                       |   | 11440     | 44.45      | -29.55 | 74         | 45.52    | 38.13    | 18.44  | 57.64  | 100    | 0       | P       | V       |
|                                       |   | 17160     | 51.01      | -17.19 | 68.2       | 42.66    | 41.73    | 22.91  | 56.29  | 100    | 0       | P       | V       |
|                                       |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                                       |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



**Band 3 - Straddle Channel**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

| WIFI                                 | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                 |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 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 |   | 5449.84   | 49.18      | -24.82 | 74         | 37.93    | 34.7     | 11.87  | 35.32  | 253    | 324     | P       | H       |
|                                      |   | 5464.27   | 48.22      | -19.98 | 68.2       | 36.85    | 34.8     | 11.88  | 35.31  | 253    | 324     | P       | H       |
|                                      |   | 5459.59   | 39.44      | -14.56 | 54         | 28.17    | 34.7     | 11.88  | 35.31  | 253    | 324     | A       | H       |
|                                      | *   | 5720      | 107.15     | -      | -          | 95.23    | 35       | 12.24  | 35.32  | 253    | 324     | P       | H       |
|                                      | *   | 5720      | 99.79      | -      | -          | 87.87    | 35       | 12.24  | 35.32  | 253    | 324     | A       | H       |
|                                      |   | 5893.5    | 50.67      | -17.53 | 68.2       | 38.39    | 35.2     | 12.42  | 35.34  | 253    | 324     | P       | H       |
|                                      |   | 5429.17   | 49.69      | -24.31 | 74         | 38.47    | 34.7     | 11.84  | 35.32  | 200    | 6       | P       | V       |
|                                      |   | 5470      | 48.59      | -19.61 | 68.2       | 37.21    | 34.8     | 11.89  | 35.31  | 200    | 6       | P       | V       |
|                                      |   | 5459.59   | 40.28      | -13.72 | 54         | 29.01    | 34.7     | 11.88  | 35.31  | 200    | 6       | A       | V       |
|                                      | *   | 5720      | 108.84     | -      | -          | 96.92    | 35       | 12.24  | 35.32  | 200    | 6       | P       | V       |
|                                      | *   | 5720      | 101.55     | -      | -          | 89.63    | 35       | 12.24  | 35.32  | 200    | 6       | A       | V       |
|                                      |   | 5880      | 51.56      | -16.64 | 68.2       | 39.36    | 35.13    | 12.41  | 35.34  | 200    | 6       | P       | V       |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                 | Note  | Frequency | Level      | Over   | Limit              | Read              | Antenna            | Path           | Preamp           | Ant           | Table          | Peak            | Pol.    |
|--------------------------------------|---|-----------|------------|--------|--------------------|-------------------|--------------------|----------------|------------------|---------------|----------------|-----------------|---------|
| Ant.<br>2                            |   | ( MHz )   | ( dBµV/m ) | ( dB ) | Line<br>( dBµV/m ) | Level<br>( dBµV ) | Factor<br>( dB/m ) | Loss<br>( dB ) | Factor<br>( dB ) | Pos<br>( cm ) | Pos<br>( deg ) | Avg.<br>( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 11440     | 43.55      | -30.45 | 74                 | 44.62             | 38.13              | 18.44          | 57.64            | 100           | 0              | P               | H       |
|                                      |   | 17160     | 50.79      | -17.41 | 68.2               | 42.44             | 41.73              | 22.91          | 56.29            | 100           | 0              | P               | H       |
|                                      |   |           |            |        |                    |                   |                    |                |                  |               |                |                 | H       |
|                                      |   |           |            |        |                    |                   |                    |                |                  |               |                |                 | H       |
|                                      |   | 11440     | 45.2       | -28.8  | 74                 | 46.27             | 38.13              | 18.44          | 57.64            | 100           | 0              | P               | V       |
|                                      |   | 17160     | 48.88      | -19.32 | 68.2               | 40.53             | 41.73              | 22.91          | 56.29            | 100           | 0              | P               | V       |
|                                      |   |           |            |        |                    |                   |                    |                |                  |               |                |                 | V       |
|                                      |   |           |            |        |                    |                   |                    |                |                  |               |                |                 | V       |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                    |                   |                    |                |                  |               |                |                 |         |



**Band 3 - Straddle Channel**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

| WIFI                                 | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--------------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                 |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 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 |   | 5447.89   | 48.91      | -25.09 | 74         | 37.66    | 34.7     | 11.87  | 35.32  | 250    | 327     | P       | H       |
|                                      |   | 5460.37   | 48.7       | -19.5  | 68.2       | 37.43    | 34.7     | 11.88  | 35.31  | 250    | 327     | P       | H       |
|                                      |   | 5458.42   | 39.56      | -14.44 | 54         | 28.29    | 34.7     | 11.88  | 35.31  | 250    | 327     | A       | H       |
|                                      | *   | 5710      | 103.02     | -      | -          | 91.12    | 35       | 12.22  | 35.32  | 250    | 327     | P       | H       |
|                                      | *   | 5710      | 96.18      | -      | -          | 84.28    | 35       | 12.22  | 35.32  | 250    | 327     | A       | H       |
|                                      |   | 5858.25   | 50.52      | -17.68 | 68.2       | 38.39    | 35.07    | 12.4   | 35.34  | 250    | 327     | P       | H       |
|                                      |   | 5426.05   | 49.59      | -24.41 | 74         | 38.38    | 34.7     | 11.84  | 35.33  | 199    | 7       | P       | V       |
|                                      |   | 5463.88   | 48.5       | -19.7  | 68.2       | 37.13    | 34.8     | 11.88  | 35.31  | 199    | 7       | P       | V       |
|                                      |   | 5459.98   | 40.28      | -13.72 | 54         | 29.01    | 34.7     | 11.88  | 35.31  | 199    | 7       | A       | V       |
|                                      | *   | 5710      | 104.36     | -      | -          | 92.46    | 35       | 12.22  | 35.32  | 199    | 7       | P       | V       |
|                                      | *   | 5710      | 97.6       | -      | -          | 85.7     | 35       | 12.22  | 35.32  | 199    | 7       | A       | V       |
|                                      |   | 5884.75   | 51.25      | -16.95 | 68.2       | 39.05    | 35.13    | 12.41  | 35.34  | 199    | 7       | P       | V       |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                 | Note  | Frequency | Level      | Over   | Limit              | Read              | Antenna            | Path           | Preamp           | Ant           | Table          | Peak            | Pol.    |
|--------------------------------------|---|-----------|------------|--------|--------------------|-------------------|--------------------|----------------|------------------|---------------|----------------|-----------------|---------|
| Ant.<br>2                            |   | ( MHz )   | ( dBµV/m ) | ( dB ) | Line<br>( dBµV/m ) | Level<br>( dBµV ) | Factor<br>( dB/m ) | Loss<br>( dB ) | Factor<br>( dB ) | Pos<br>( cm ) | Pos<br>( deg ) | Avg.<br>( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 11420     | 43.67      | -30.33 | 74                 | 44.82             | 38.12              | 18.42          | 57.69            | 100           | 0              | P               | H       |
|                                      |   | 17130     | 43.64      | -24.56 | 68.2               | 35.16             | 41.87              | 22.89          | 56.28            | 100           | 0              | P               | H       |
|                                      |   |           |            |        |                    |                   |                    |                |                  |               |                |                 | H       |
|                                      |   |           |            |        |                    |                   |                    |                |                  |               |                |                 | H       |
|                                      |   | 11420     | 43.26      | -30.74 | 74                 | 44.41             | 38.12              | 18.42          | 57.69            | 100           | 0              | P               | V       |
|                                      |   | 17130     | 43.32      | -24.88 | 68.2               | 34.84             | 41.87              | 22.89          | 56.28            | 100           | 0              | P               | V       |
|                                      |   |           |            |        |                    |                   |                    |                |                  |               |                |                 | V       |
|                                      |   |           |            |        |                    |                   |                    |                |                  |               |                |                 | V       |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                    |                   |                    |                |                  |               |                |                 |         |



**Band 3 - Straddle Channel**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

| WIFI                                   | Note  | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|--|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                   |   |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 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 |   | 5452.57   | 49.29      | -24.71 | 74         | 38.04    | 34.7     | 11.87  | 35.32  | 253    | 326     | P       | H       |
|  |   | 5466.61   | 50.06      | -18.14 | 68.2       | 38.68    | 34.8     | 11.89  | 35.31  | 253    | 326     | P       | H       |
|  |   | 5459.98   | 40.07      | -13.93 | 54         | 28.8     | 34.7     | 11.88  | 35.31  | 253    | 326     | A       | H       |
|  | *   | 5690      | 96.97      | -      | -          | 85.1     | 35       | 12.19  | 35.32  | 253    | 326     | P       | H       |
|  | *   | 5690      | 89.76      | -      | -          | 77.89    | 35       | 12.19  | 35.32  | 253    | 326     | A       | H       |
|  |   | 5853.4    | 50.38      | -17.82 | 68.2       | 38.32    | 35       | 12.4   | 35.34  | 253    | 326     | P       | H       |
|  |   | 5455.3    | 50.6       | -23.4  | 74         | 39.35    | 34.7     | 11.87  | 35.32  | 227    | 34      | P       | V       |
|  |   | 5469.34   | 50.28      | -17.92 | 68.2       | 38.9     | 34.8     | 11.89  | 35.31  | 227    | 34      | P       | V       |
|  |   | 5458.81   | 41.3       | -12.7  | 54         | 30.03    | 34.7     | 11.88  | 35.31  | 227    | 34      | A       | V       |
|  | *   | 5690      | 98.64      | -      | -          | 86.77    | 35       | 12.19  | 35.32  | 227    | 34      | P       | V       |
|  | *   | 5690      | 91.41      | -      | -          | 79.54    | 35       | 12.19  | 35.32  | 227    | 34      | A       | V       |
|  | 5936.2  | 50.67     | -17.53     | 68.2   | 38.37      | 35.2     | 12.44    | 35.34  | 227    | 34     | P       | V       |         |
| <b>Remark</b>                          | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



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

| WIFI                                   | Note  | Frequency | Level      | Over   | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |
|--|---|-----------|------------|--------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|
| Ant. 2                                 |   | ( MHz )   | ( dBμV/m ) | ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 11380     | 42.42      | -31.58 | 74              | 43.75          | 38.08           | 18.38       | 57.79         | 100        | 0           | P            | H       |
|  |   | 17070     | 42.39      | -25.81 | 68.2            | 33.74          | 42.07           | 22.84       | 56.26         | 100        | 0           | P            | H       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | H       |
|  |   | 11380     | 42.96      | -31.04 | 74              | 44.29          | 38.08           | 18.38       | 57.79         | 100        | 0           | P            | V       |
|  |   | 17070     | 43         | -25.2  | 68.2            | 34.35          | 42.07           | 22.84       | 56.26         | 100        | 0           | P            | V       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
|  |   |           |            |        |                 |                |                 |             |               |            |             |              | V       |
| <b>Remark</b>                          | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |                 |                |                 |             |               |            |             |              |         |



Emission above 18GHz

WIFI 802.11a (SHF @ 3m)

| WIFI           | Note   | Frequency | Level      | Over            | Limit              | Read              | Antenna            | Path           | Preamp           | Ant           | Table          | Peak            | Pol.    |   |
|----------------|--|-----------|------------|-----------------|--------------------|-------------------|--------------------|----------------|------------------|---------------|----------------|-----------------|---------|---|
| Ant.<br>2      |  | ( MHz )   | ( dBμV/m ) | Limit<br>( dB ) | Line<br>( dBμV/m ) | Level<br>( dBμV ) | Factor<br>( dB/m ) | Loss<br>( dB ) | Factor<br>( dB ) | Pos<br>( cm ) | Pos<br>( deg ) | Avg.<br>( P/A ) | ( H/V ) |   |
| 802.11a<br>SHF |  | 39912     | 44.43      | -29.57          | 74                 | 42.69             | 44.1               | 12.08          | 54.44            | 100           | 0              | P               | H       |   |
|                |  |           |            |                 |                    |                   |                    |                |                  |               |                |                 | H       |   |
|                |  |           |            |                 |                    |                   |                    |                |                  |               |                |                 | H       |   |
|                |  |           |            |                 |                    |                   |                    |                |                  |               |                |                 | H       |   |
|                |  |           | 39670      | 43.93           | -30.07             | 74                | 42.67              | 44.1           | 12.08            | 54.44         | 100            | 0               | P       | V |
|                |  |           |            |                 |                    |                   |                    |                |                  |               |                |                 |         | V |
|                |  |           |            |                 |                    |                   |                    |                |                  |               |                |                 |         | V |
|                |  |           |            |                 |                    |                   |                    |                |                  |               |                |                 |         | V |
| Remark         | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |                 |                    |                   |                    |                |                  |               |                |                 |         |   |





Emission below 1GHz

WIFI 802.11a (LF @ 3m)

| WIFI          | Note   | Frequency | Level      | Over         | Limit           | Read           | Antenna         | Path        | Preamp        | Ant        | Table       | Peak         | Pol.    |   |
|---------------|--|-----------|------------|--------------|-----------------|----------------|-----------------|-------------|---------------|------------|-------------|--------------|---------|---|
| Ant.          |  | ( MHz )   | ( dBμV/m ) | Limit ( dB ) | Line ( dBμV/m ) | Level ( dBμV ) | Factor ( dB/m ) | Loss ( dB ) | Factor ( dB ) | Pos ( cm ) | Pos ( deg ) | Avg. ( P/A ) | ( H/V ) |   |
| 802.11a<br>LF |  | 85.62     | 26.02      | -13.98       | 40              | 40.45          | 14.01           | 1.55        | 29.99         | -          | -           | P            | H       |   |
|               |  | 129.09    | 32.39      | -11.11       | 43.5            | 43.01          | 17.43           | 1.9         | 29.95         | 100        | 0           | P            | H       |   |
|               |  | 260.04    | 24.99      | -21.01       | 46              | 32.55          | 19.53           | 2.71        | 29.8          | -          | -           | P            | H       |   |
|               |  | 358.1     | 26.89      | -19.11       | 46              | 32.91          | 20.56           | 3.2         | 29.78         | -          | -           | P            | H       |   |
|               |  | 520.5     | 30.2       | -15.8        | 46              | 32.17          | 23.95           | 3.86        | 29.78         | -          | -           | P            | H       |   |
|               |  | 955.9     | 33.46      | -12.54       | 46              | 26.21          | 30.5            | 5.28        | 28.53         | -          | -           | P            | H       |   |
|               |  |           |            |              |                 |                |                 |             |               |            |             |              |         | H |
|               |  |           |            |              |                 |                |                 |             |               |            |             |              |         | H |
|               |  |           |            |              |                 |                |                 |             |               |            |             |              |         | H |
|               |  |           |            |              |                 |                |                 |             |               |            |             |              |         | H |
|               |  |           |            |              |                 |                |                 |             |               |            |             |              |         | H |
|               |  |           |            |              |                 |                |                 |             |               |            |             |              |         | H |
|               |  |           | 32.16      | 33.91        | -6.09           | 40             | 39.36           | 23.57       | 0.96          | 29.98      | 100         | 0            | P       | V |
|               |  |           | 82.11      | 28.48        | -11.52          | 40             | 43.42           | 13.53       | 1.52          | 29.99      | -           | -            | P       | V |
|               |  |           | 150.96     | 30.81        | -12.69          | 43.5           | 41.5            | 17.17       | 2.06          | 29.92      | -           | -            | P       | V |
|               |  |           | 360.9      | 27.41        | -18.59          | 46             | 33.33           | 20.65       | 3.21          | 29.78      | -           | -            | P       | V |
|               |  |           | 520.5      | 36.2         | -9.8            | 46             | 38.17           | 23.95       | 3.86          | 29.78      | -           | -            | P       | V |
|               |  |           | 946.8      | 33.46        | -12.54          | 46             | 26.83           | 29.97       | 5.25          | 28.59      | -           | -            | 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. |
| !   | 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 Ant. 2                 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. ( P/A ) | Pol. ( H/V ) |
|-----------------------------|------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11b<br>CH 01<br>2412MHz |      | 2390              | 55.45            | -18.55            | 74                    | 54.51               | 32.22                   | 4.58             | 35.86                | 103            | 308               | P                 | H            |
|                             |      | 2390              | 43.54            | -10.46            | 54                    | 42.6                | 32.22                   | 4.58             | 35.86                | 103            | 308               | A                 | H            |

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

**For Peak Limit @ 2390MHz:**

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

**For Average Limit @ 2390MHz:**

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

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