



# FCC RF Test Report

**APPLICANT** : Zebra Technologies Corporation  
**EQUIPMENT** : Touch computer  
**BRAND NAME** : Zebra  
**MODEL NAME** : TC75EK  
**FCC ID** : UZ7TC75EK  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on Jul. 28, 2016 and testing was completed on Sep. 16, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

---

Reviewed by: Joseph Lin / Supervisor

---

Approved by: Jones Tsai / Manager



**SPORTON INTERNATIONAL INC.**

No. 52, Hwa Ya 1<sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.



## TABLE OF CONTENTS

|                                                              |           |
|--------------------------------------------------------------|-----------|
| <b>REVISION HISTORY .....</b>                                | <b>3</b>  |
| <b>SUMMARY OF TEST RESULT .....</b>                          | <b>4</b>  |
| <b>1 GENERAL DESCRIPTION .....</b>                           | <b>5</b>  |
| 1.1 Applicant .....                                          | 5         |
| 1.2 Manufacturer .....                                       | 5         |
| 1.3 Feature of Equipment Under Test .....                    | 5         |
| 1.4 Product Specification of Equipment Under Test .....      | 6         |
| 1.5 Modification of EUT .....                                | 9         |
| 1.6 Testing Location .....                                   | 10        |
| 1.7 Applicable Standards .....                               | 11        |
| <b>2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST .....</b>    | <b>12</b> |
| 2.1 Carrier Frequency and Channel .....                      | 12        |
| 2.2 Pre-Scanned RF Power .....                               | 14        |
| 2.3 Test Mode .....                                          | 27        |
| 2.4 Connection Diagram of Test System .....                  | 30        |
| 2.5 Support Unit used in test configuration and system ..... | 31        |
| 2.6 EUT Operation Test Setup .....                           | 32        |
| 2.7 Measurement Results Explanation Example .....            | 33        |
| <b>3 TEST RESULT .....</b>                                   | <b>34</b> |
| 3.1 26dB & 99% Occupied Bandwidth Measurement .....          | 34        |
| 3.2 Maximum Conducted Output Power Measurement .....         | 37        |
| 3.3 Power Spectral Density Measurement .....                 | 42        |
| 3.4 Unwanted Emissions Measurement .....                     | 46        |
| 3.5 AC Conducted Emission Measurement .....                  | 52        |
| 3.6 Frequency Stability Measurement .....                    | 69        |
| 3.7 Automatically Discontinue Transmission .....             | 70        |
| 3.8 Antenna Requirements .....                               | 71        |
| <b>4 LIST OF MEASURING EQUIPMENT .....</b>                   | <b>73</b> |
| <b>5 UNCERTAINTY OF EVALUATION .....</b>                     | <b>74</b> |
| <b>APPENDIX A. CONDUCTED TEST RESULTS</b>                    |           |
| <b>APPENDIX B. RADIATED SPURIOUS EMISSION</b>                |           |
| <b>APPENDIX C. RADIATED SPURIOUS EMISSION PLOTS</b>          |           |
| <b>APPENDIX D. DUTY CYCLE PLOTS</b>                          |           |
| <b>APPENDIX E. SETUP PHOTOGRAPHS</b>                         |           |



## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ISSUED DATE   |
|------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| FR672834E  | Rev. 01 | Initial issue of report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sep. 29, 2016 |
| FR672834E  | Rev. 02 | Detail changes list as below :<br><ol style="list-style-type: none"><li>1. Adding the applied standard in the section 1.7 and the specification of accessories</li><li>2. Updating average power in appendix A and section 1.4</li><li>3. Revising 99% occupied bandwidth in section 1.4</li><li>4. Adding straddle channel power in section 2.2</li><li>5. Revising maximum straddle channel power for CDD mode in section 3.2.5</li><li>6. Revising Band III antenna gain for CDD mode in section 3.8.3</li></ol> | Oct. 05, 2016 |
| FR672834E  | Rev. 03 | Revising the Adapter information in specification of accessories.                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Oct. 07, 2016 |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
|            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |



## SUMMARY OF TEST RESULT

| Report Section | FCC Rule              | Description                            | Limit                                             | Result | Remark                                    |
|----------------|-----------------------|----------------------------------------|---------------------------------------------------|--------|-------------------------------------------|
| 3.1            | 2.1049<br>15.403(i)   | 26dB & 99% Bandwidth                   | -                                                 | Pass   | -                                         |
| 3.2            | 15.407(a)             | Maximum Conducted Output Power         | FCC<br>$\leq 24$ dBm<br>(depend on band)          | Pass   | -                                         |
| 3.3            | 15.407(a)             | Power Spectral Density                 | FCC<br>$\leq 11$ dBm<br>(depend on band)          | Pass   | -                                         |
| 3.4            | 15.407(b)             | Unwanted Emissions                     | $\leq -17, -27$ dBm<br>(depend on band)&15.209(a) | Pass   | Under limit<br>1.01 dB at<br>5458.960 MHz |
| 3.5            | 15.207                | AC Conducted Emission                  | 15.207(a)                                         | Pass   | Under limit<br>3.20 dB at<br>0.758 MHz    |
| 3.6            | 15.407(g)             | Frequency Stability                    | Within Operation Band                             | Pass   | -                                         |
| 3.7            | 15.407(c)             | Automatically Discontinue Transmission | Discontinue Transmission                          | Pass   | -                                         |
| 3.8            | 15.203 &<br>15.407(a) | Antenna Requirement                    | N/A                                               | Pass   | -                                         |



# 1 General Description

## 1.1 Applicant

Zebra Technologies Corporation  
1 Zebra Plaza Holtsville, NY 11742

## 1.2 Manufacturer

Wistron Corporation  
21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C.

## 1.3 Feature of Equipment Under Test

| Product Feature                 |                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Touch computer                                                                                                            |
| Brand Name                      | Zebra                                                                                                                     |
| Model Name                      | TC75EK                                                                                                                    |
| FCC ID                          | UZ7TC75EK                                                                                                                 |
| EUT supports Radios application | CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC<br>WLAN 11a/b/g/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80<br>Bluetooth BR/EDR/LE |
| HW Version                      | DV                                                                                                                        |
| SW Version                      | Android version 6.0.1                                                                                                     |
| FW Version                      | 91-10-01-MG-00                                                                                                            |
| MFD                             | 14JUL16                                                                                                                   |
| EUT Stage                       | Engineering sample                                                                                                        |

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

| Specification of Accessories           |            |        |             |                    |
|----------------------------------------|------------|--------|-------------|--------------------|
| AC Adapter                             | Brand Name | Zebra  | Part Number | PWR-BUA5V16W0WW    |
| Snap-On USB/Charge Cable               | Brand Name | Symbol | Part Number | CBL-TC7X-USB1-01   |
| Snap-On Charging Cable Cup             | Brand Name | Symbol | Part Number | CHG-TC7X-CBL1-01   |
| Battery                                | Brand Name | Zebra  | Part Number | BT-000318-01       |
| Earphone 1                             | Brand Name | Zebra  | Part Number | HDST-35MM-PTVP-01  |
| Earphone 2                             | Brand Name | Zebra  | Part Number | HS2100-OTH         |
| Earphone 3                             | Brand Name | Zebra  | Part Number | HS3100-OTH         |
| Snap-on 3.5MM Audio Nugget             | Brand Name | Symbol | Part Number | ADP-TC7X-AUD35-01  |
| 3.5mm Jack 43"(1.1m)<br>Standard Cable | Brand Name | Zebra  | Part Number | CBL-HS2100-3MS1-01 |
| Soft Holster                           | Brand Name | Zebra  | Part Number | SG-TC7X-HLSTR1-01  |
| Rigid Holster                          | Brand Name | Zebra  | Part Number | SG-TC7X-RHLSTR1-01 |
| Power Cord                             | Brand Name | LOROM  | Part Number | 50-16000-182R      |
| Cable line                             | Brand Name | Zebra  | Part Number | CBL-DC-383A1-01    |



## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tx/Rx Frequency Range                   | 5180 MHz ~ 5240 MHz<br>5260 MHz ~ 5320 MHz<br>5500 MHz ~ 5720 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Maximum Output Power<br><CDD Modes>     | <b>&lt;5180 MHz ~ 5240 MHz&gt;</b><br><b>&lt;Ant. 1&gt;</b><br>802.11a : 15.98 dBm / 0.0396 W<br>802.11n HT20 : 15.82 dBm / 0.0382 W<br>802.11n HT40 : 15.15 dBm / 0.0327 W<br>802.11ac VHT20: 15.90 dBm / 0.0389 W<br>802.11ac VHT40: 15.33 dBm / 0.0341 W<br>802.11ac VHT80: 12.08 dBm / 0.0161 W<br><b>&lt;Ant. 2&gt;</b><br>802.11a : 17.61 dBm / 0.0577 W<br>802.11n HT20 : 17.54 dBm / 0.0568 W<br>802.11n HT40 : 16.86 dBm / 0.0485 W<br>802.11ac VHT20: 17.67 dBm / 0.0585 W<br>802.11ac VHT40: 16.93 dBm / 0.0493 W<br>802.11ac VHT80: 14.03 dBm / 0.0253 W<br><b>MIMO &lt;Ant. 1 + 2&gt;</b><br>802.11a : 19.89 dBm / 0.0975 W<br>802.11n HT20 : 19.89 dBm / 0.0975 W<br>802.11n HT40 : 19.18 dBm / 0.0828 W<br>802.11ac VHT20: 19.91 dBm / 0.0979 W<br>802.11ac VHT40: 19.33 dBm / 0.0857 W<br>802.11ac VHT80: 16.26 dBm / 0.0423 W<br><b>&lt;5260 MHz ~ 5320 MHz&gt;</b><br><b>&lt;Ant. 1&gt;</b><br>802.11a : 16.09 dBm / 0.0406 W<br>802.11n HT20 : 15.80 dBm / 0.0380 W<br>802.11n HT40 : 15.44 dBm / 0.0350 W<br>802.11ac VHT20: 15.83 dBm / 0.0383 W<br>802.11ac VHT40: 15.47 dBm / 0.0352 W<br>802.11ac VHT80: 11.69 dBm / 0.0148 W<br><b>&lt;Ant. 2&gt;</b><br>802.11a : 17.56 dBm / 0.0570 W<br>802.11n HT20 : 17.58 dBm / 0.0573 W<br>802.11n HT40 : 17.06 dBm / 0.0508 W<br>802.11ac VHT20: 17.63 dBm / 0.0579 W<br>802.11ac VHT40: 17.08 dBm / 0.0511 W<br>802.11ac VHT80: 13.14 dBm / 0.0206 W<br><b>MIMO &lt;Ant. 1 + 2&gt;</b><br>802.11a : 19.91 dBm / 0.0979 W<br>802.11n HT20 : 19.86 dBm / 0.0968 W<br>802.11n HT40 : 19.41 dBm / 0.0873 W<br>802.11ac VHT20: 19.90 dBm / 0.0977 W<br>802.11ac VHT40: 19.50 dBm / 0.0891 W<br>802.11ac VHT80: 15.58 dBm / 0.0361 W |



| Standards-related Product Specification |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Output Power<br><CDD Modes>     | <p><b>&lt;5500 MHz ~ 5720 MHz&gt;</b></p> <p><b>&lt;Ant. 1&gt;</b></p> <p>802.11a : 15.88 dBm / 0.0387 W<br/>802.11n HT20 : 15.81 dBm / 0.0381 W<br/>802.11n HT40 : 15.30 dBm / 0.0339 W<br/>802.11ac VHT20: 15.83 dBm / 0.0383 W<br/>802.11ac VHT40: 15.53 dBm / 0.0357 W<br/>802.11ac VHT80: 14.16 dBm / 0.0261 W</p> <p><b>&lt;Ant. 2&gt;</b></p> <p>802.11a : 17.77 dBm / 0.0598 W<br/>802.11n HT20 : 17.54 dBm / 0.0568 W<br/>802.11n HT40 : 17.11 dBm / 0.0514 W<br/>802.11ac VHT20: 17.57 dBm / 0.0571 W<br/>802.11ac VHT40: 17.16 dBm / 0.0520 W<br/>802.11ac VHT80: 16.11 dBm / 0.0408 W</p> <p><b>MIMO &lt;Ant. 1 + 2&gt;</b></p> <p>802.11a : 19.97 dBm / 0.0993 W<br/>802.11n HT20 : 19.83 dBm / 0.0962 W<br/>802.11n HT40 : 19.36 dBm / 0.0863 W<br/>802.11ac VHT20: 19.85 dBm / 0.0966 W<br/>802.11ac VHT40: 19.50 dBm / 0.0891 W<br/>802.11ac VHT80: 18.34 dBm / 0.0682 W</p> |
| Maximum Output Power<br><TXBF Modes>    | <p><b>MIMO &lt;Ant. 1 + 2&gt;</b></p> <p><b>&lt;5180 MHz ~ 5240 MHz&gt;</b></p> <p>802.11n HT20 : 19.66 dBm / 0.0925 W<br/>802.11n HT40 : 19.30 dBm / 0.0851 W<br/>802.11ac VHT20: 19.82 dBm / 0.0959 W<br/>802.11ac VHT40: 19.30 dBm / 0.0851 W<br/>802.11ac VHT80: 16.25 dBm / 0.0422 W</p> <p><b>&lt;5260 MHz ~ 5320 MHz&gt;</b></p> <p>802.11n HT20 : 19.60 dBm / 0.0912 W<br/>802.11n HT40 : 19.20 dBm / 0.0832 W<br/>802.11ac VHT20: 19.70 dBm / 0.0933 W<br/>802.11ac VHT40: 19.30 dBm / 0.0851 W<br/>802.11ac VHT80: 15.32 dBm / 0.0340 W</p> <p><b>&lt;5500 MHz ~ 5720 MHz&gt;</b></p> <p>802.11n HT20 : 19.55 dBm / 0.0902 W<br/>802.11n HT40 : 19.32 dBm / 0.0855 W<br/>802.11ac VHT20: 19.72 dBm / 0.0938 W<br/>802.11ac VHT40: 19.46 dBm / 0.0883 W<br/>802.11ac VHT80: 18.30 dBm / 0.0676 W</p>                                                                                |

| Standards-related Product Specification                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Maximum Output Power to Antenna for Straddle Channel &lt;CDD Modes&gt;</b>  | <b>&lt;Ant. 1&gt;</b><br>802.11a : 15.81 dBm / 0.0381 W<br>802.11n HT20 : 15.77 dBm / 0.0378 W<br>802.11n HT40 : 15.18 dBm / 0.0330 W<br>802.11ac VHT20: 15.86 dBm / 0.0385 W<br>802.11ac VHT40: 15.27 dBm / 0.0337 W<br>802.11ac VHT80: 14.04 dBm / 0.0254 W<br><b>&lt;Ant. 2&gt;</b><br>802.11a : 17.59 dBm / 0.0574 W<br>802.11n HT20 : 17.48 dBm / 0.0560 W<br>802.11n HT40 : 17.05 dBm / 0.0507 W<br>802.11ac VHT20: 17.61 dBm / 0.0577 W<br>802.11ac VHT40: 17.15 dBm / 0.0519 W<br>802.11ac VHT80: 16.18 dBm / 0.0415 W<br><b>MIMO &lt;Ant. 1 + 2&gt;</b><br>802.11a : 19.92 dBm / 0.0982 W<br>802.11n HT20 : 19.79 dBm / 0.0953 W<br>802.11n HT40 : 19.28 dBm / 0.0847 W<br>802.11ac VHT20: 19.92 dBm / 0.0982 W<br>802.11ac VHT40: 19.42 dBm / 0.0875 W<br>802.11ac VHT80: 18.31 dBm / 0.0678 W |
| <b>Maximum Output Power to Antenna for Straddle Channel &lt;TXBF Modes&gt;</b> | <b>MIMO &lt;Ant. 1 + 2&gt;</b><br>802.11n HT20 : 19.66 dBm / 0.0925 W<br>802.11n HT40 : 19.33 dBm / 0.0857 W<br>802.11ac VHT20: 19.76 dBm / 0.0946 W<br>802.11ac VHT40: 19.46 dBm / 0.0883 W<br>802.11ac VHT80: 18.23 dBm / 0.0665 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>99% Occupied Bandwidth &lt;CDD Modes&gt;</b>                                | 802.11a : 18.70 MHz<br>802.11ac VHT20 : 19.35 MHz<br>802.11ac VHT40 : 37.20 MHz<br>802.11ac VHT80 : 76.08 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>99% Occupied Bandwidth &lt;TXBF Modes&gt;</b>                               | 802.11ac VHT20 : 19.40 MHz<br>802.11ac VHT40 : 37.00 MHz<br>802.11ac VHT80 : 76.08 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Standards-related Product Specification                  |        |                                                                                                                                                                                                                                                                                                                                           |  |  |        |        |               |   |   |                    |   |   |
|----------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--------|--------|---------------|---|---|--------------------|---|---|
| 99% Occupied Bandwidth for Straddle Channel <CDD Modes>  |        | 802.11a : 18.75 MHz<br>802.11ac VHT20 : 19.20 MHz<br>802.11ac VHT40 : 36.90 MHz<br>802.11ac VHT80 : 75.84 MHz                                                                                                                                                                                                                             |  |  |        |        |               |   |   |                    |   |   |
| 99% Occupied Bandwidth for Straddle Channel <TXBF Modes> |        | 802.11ac VHT20 : 19.20 MHz<br>802.11ac VHT40 : 37.20 MHz<br>802.11ac VHT80 : 75.96 MHz                                                                                                                                                                                                                                                    |  |  |        |        |               |   |   |                    |   |   |
| Antenna Type / Gain                                      |        | <5180 MHz ~ 5240 MHz><br>Ant. 1 : IFA Antenna with gain 4.90 dBi<br>Ant. 2 : IFA Antenna with gain 1.60 dBi<br><5260 MHz ~ 5320 MHz><br>Ant. 1 : IFA Antenna with gain 4.90 dBi<br>Ant. 2 : IFA Antenna with gain 2.20 dBi<br><5500 MHz ~ 5720 MHz><br>Ant. 1 : IFA Antenna with gain 4.90 dBi<br>Ant. 2 : IFA Antenna with gain 3.30 dBi |  |  |        |        |               |   |   |                    |   |   |
| Type of Modulation                                       |        | 802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)                                                                                                                                                                                                                                  |  |  |        |        |               |   |   |                    |   |   |
| Antenna Function Description                             |        | <table><tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr><tr><td>802.11 a/n/ac</td><td>V</td><td>V</td></tr><tr><td>802.11 a/n/ac MIMO</td><td>V</td><td>V</td></tr></table>                                                                                                                                                                |  |  | Ant. 1 | Ant. 2 | 802.11 a/n/ac | V | V | 802.11 a/n/ac MIMO | V | V |
|                                                          | Ant. 1 | Ant. 2                                                                                                                                                                                                                                                                                                                                    |  |  |        |        |               |   |   |                    |   |   |
| 802.11 a/n/ac                                            | V      | V                                                                                                                                                                                                                                                                                                                                         |  |  |        |        |               |   |   |                    |   |   |
| 802.11 a/n/ac MIMO                                       | V      | V                                                                                                                                                                                                                                                                                                                                         |  |  |        |        |               |   |   |                    |   |   |

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

## 1.5 Modification of EUT

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



## 1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

|                           |                                                                                                                                                                  |         |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.                                                                                                                                       |         |
| <b>Test Site Location</b> | No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park,<br>Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |         |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                          |         |
|                           | TH05-HY                                                                                                                                                          | CO05-HY |

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

|                           |                                                                                                                                        |  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.                                                                                                             |  |
| <b>Test Site Location</b> | No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |  |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                |  |
|                           | 03CH12-HY                                                                                                                              |  |

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



## **1.7 Applicable Standards**

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01
- ♦ ANSI C63.10-2013

**Remark:**

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

## 2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst position for each mode was recorded in the appendix of this test report.

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

| Frequency Band   | Channel          | Freq.<br>(MHz) | Channel | Freq.<br>(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 Pre-Scanned RF Power

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

### <CDD Modes>

#### <Ant. 1>

| 802.11a RF Average Output Power (dBm) |                    |                 |                             |                 |       |       |       |       |       |       |
|---------------------------------------|--------------------|-----------------|-----------------------------|-----------------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                     |                    |                 | Average Power vs. Data Rate |                 |       |       |       |       |       |       |
| Channel                               | Frequency<br>(MHz) | Data Rate (bps) | Channel                     | Data Rate (bps) |       |       |       |       |       |       |
|                                       |                    | 6M              |                             | 9M              | 12M   | 18M   | 24M   | 36M   | 48M   | 54M   |
| Duty Cycle (%)                        |                    | 92.86           |                             | 89.72           | 86.75 | 81.67 | 78.48 | 71.11 | 64.87 | 63.57 |
| CH 36                                 | 5180               | 15.81           | CH 48                       | 15.91           | 15.88 | 15.86 | 15.85 | 15.82 | 15.81 | 15.79 |
| CH 44                                 | 5220               | 15.91           |                             |                 |       |       |       |       |       |       |
| CH 48                                 | 5240               | 15.98           |                             |                 |       |       |       |       |       |       |
| CH 52                                 | 5260               | 15.93           | CH 60                       | 16.01           | 15.98 | 15.95 | 15.94 | 15.92 | 15.90 | 15.89 |
| CH 60                                 | 5300               | 16.09           |                             |                 |       |       |       |       |       |       |
| CH 64                                 | 5320               | 15.98           |                             |                 |       |       |       |       |       |       |
| CH 100                                | 5500               | 15.77           | CH 140                      | 15.83           | 15.82 | 15.79 | 15.77 | 15.75 | 15.73 | 15.71 |
| CH 116                                | 5580               | 15.84           |                             |                 |       |       |       |       |       |       |
| CH 140                                | 5700               | 15.88           |                             |                 |       |       |       |       |       |       |
| CH 144*                               | 5720               | 15.81           |                             |                 |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.



| 802.11n HT20 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |
|--------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                          |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |
| Channel                                    | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |
|                                            |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| Duty Cycle (%)                             |                    | 92.86     |                             |           | 87.34 | 81.94 | 78.21 | 70.79 | 66.22 | 63.83 |
| CH 36                                      | 5180               | 14.62     | CH 44                       | 15.61     | 15.67 | 15.78 | 15.78 | 15.80 | 15.82 | 15.76 |
| CH 44                                      | 5220               | 15.82     |                             |           |       |       |       |       |       |       |
| CH 48                                      | 5240               | 15.67     |                             |           |       |       |       |       |       |       |
| CH 52                                      | 5260               | 15.65     | CH 60                       | 15.67     | 15.70 | 15.75 | 15.78 | 15.72 | 15.79 | 15.55 |
| CH 60                                      | 5300               | 15.80     |                             |           |       |       |       |       |       |       |
| CH 64                                      | 5320               | 14.70     |                             |           |       |       |       |       |       |       |
| CH 100                                     | 5500               | 15.34     | CH 116                      | 15.73     | 15.53 | 15.62 | 15.61 | 15.63 | 15.62 | 15.56 |
| CH 116                                     | 5580               | 15.81     |                             |           |       |       |       |       |       |       |
| CH 140                                     | 5700               | 14.94     |                             |           |       |       |       |       |       |       |
| CH 144*                                    | 5720               | 15.77     |                             |           |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.



| 802.11n HT40 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |
|--------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                          |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |
| Channel                                    | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |
|                                            |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| Duty Cycle (%)                             |                    | 98.01     |                             | 95.31     | 94.44 | 92.06 | 90.39 | 88.37 | 86.25 | 85.14 |
| CH 38                                      | 5190               | 11.99     | CH 46                       | 15.12     | 15.10 | 15.04 | 15.01 | 14.98 | 15.01 | 14.92 |
| CH 46                                      | 5230               | 15.15     |                             |           |       |       |       |       |       |       |
| CH 54                                      | 5270               | 15.44     | CH 54                       | 15.40     | 15.36 | 15.35 | 15.31 | 15.21 | 15.20 | 15.13 |
| CH 62                                      | 5310               | 11.94     |                             |           |       |       |       |       |       |       |
| CH 102                                     | 5510               | 12.76     | CH 110                      | 15.28     | 15.22 | 15.20 | 15.10 | 15.07 | 15.10 | 15.01 |
| CH 110                                     | 5550               | 15.30     |                             |           |       |       |       |       |       |       |
| CH 134                                     | 5670               | 14.89     |                             |           |       |       |       |       |       |       |
| CH 142*                                    | 5710               | 15.18     |                             |           |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.

| 802.11ac VHT20 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |       |
|----------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                            |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |       |
| Channel                                      | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |       |
|                                              |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  |
| Duty Cycle (%)                               |                    | 92.86     |                             |           | 86.87 | 81.25 | 78.21 | 71.91 | 66.23 | 63.89 | 61.77 |
| CH 36                                        | 5180               | 14.64     | CH 44                       | 15.65     | 15.71 | 15.80 | 15.86 | 15.89 | 15.85 | 15.80 | 15.86 |
| CH 44                                        | 5220               | 15.90     |                             |           |       |       |       |       |       |       |       |
| CH 48                                        | 5240               | 15.69     |                             |           |       |       |       |       |       |       |       |
| CH 52                                        | 5260               | 15.70     | CH 60                       | 15.70     | 15.74 | 15.82 | 15.80 | 15.83 | 15.82 | 15.77 | 15.80 |
| CH 60                                        | 5300               | 15.83     |                             |           |       |       |       |       |       |       |       |
| CH 64                                        | 5320               | 14.73     |                             |           |       |       |       |       |       |       |       |
| CH 100                                       | 5500               | 15.53     | CH 116                      | 15.78     | 15.76 | 15.82 | 15.82 | 15.81 | 15.78 | 15.73 | 15.78 |
| CH 116                                       | 5580               | 15.83     |                             |           |       |       |       |       |       |       |       |
| CH 140                                       | 5700               | 14.95     |                             |           |       |       |       |       |       |       |       |
| CH 144*                                      | 5720               | 15.86     |                             |           |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.



| 802.11ac VHT40 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |       |       |
|----------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                            |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                                      | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |       |       |
|                                              |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| Duty Cycle (%)                               |                    | 98.02     |                             | 96.47     | 93.41 | 93.06 | 90.48 | 87.50 | 86.59 | 85.53 | 85.29 | 83.97 |
| CH 38                                        | 5190               | 12.10     | CH 46                       | 15.29     | 15.27 | 15.26 | 15.28 | 15.32 | 15.30 | 15.30 | 15.30 | 15.27 |
| CH 46                                        | 5230               | 15.33     |                             |           |       |       |       |       |       |       |       |       |
| CH 54                                        | 5270               | 15.47     | CH 54                       | 15.43     | 15.41 | 15.40 | 15.42 | 15.46 | 15.44 | 15.44 | 15.44 | 15.41 |
| CH 62                                        | 5310               | 12.00     |                             |           |       |       |       |       |       |       |       |       |
| CH 102                                       | 5510               | 12.84     | CH 110                      | 15.50     | 15.48 | 15.47 | 15.49 | 15.51 | 15.49 | 15.49 | 15.49 | 15.46 |
| CH 110                                       | 5550               | 15.53     |                             |           |       |       |       |       |       |       |       |       |
| CH 134                                       | 5670               | 15.21     |                             |           |       |       |       |       |       |       |       |       |
| CH 142*                                      | 5710               | 15.27     |                             |           |       |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.

| 802.11ac VHT80 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |       |       |
|----------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                            |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                                      | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |       |       |
|                                              |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| Duty Cycle (%)                               |                    | 95.95     |                             | 92.65     | 89.90 | 86.91 | 84.85 | 82.76 | 81.48 | 78.85 | 77.08 | 75.56 |
| CH 042                                       | 5210               | 12.08     | CH 42                       | 11.95     | 11.94 | 12.00 | 11.92 | 12.02 | 11.98 | 11.99 | 12.06 | 12.07 |
| CH 058                                       | 5290               | 11.69     | CH 58                       | 11.56     | 11.55 | 11.61 | 11.53 | 11.63 | 11.59 | 11.60 | 11.67 | 11.68 |
| CH 106                                       | 5530               | 11.73     | CH 122                      | 14.03     | 14.02 | 14.08 | 14.00 | 14.10 | 14.06 | 14.07 | 14.14 | 14.15 |
| CH 122                                       | 5610               | 14.16     |                             |           |       |       |       |       |       |       |       |       |
| CH 138*                                      | 5690               | 14.04     |                             |           |       |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.



&lt;Ant. 2&gt;

| 802.11a RF Average Output Power (dBm) |                    |                 |                             |                 |       |       |       |       |       |       |
|---------------------------------------|--------------------|-----------------|-----------------------------|-----------------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                     |                    |                 | Average Power vs. Data Rate |                 |       |       |       |       |       |       |
| Channel                               | Frequency<br>(MHz) | Data Rate (bps) | Channel                     | Data Rate (bps) |       |       |       |       |       |       |
|                                       |                    | 6M              |                             | 9M              | 12M   | 18M   | 24M   | 36M   | 48M   | 54M   |
| Duty Cycle (%)                        |                    | 92.86           |                             | 89.72           | 87.95 | 81.82 | 78.39 | 71.11 | 66.22 | 64.29 |
| CH 36                                 | 5180               | 16.22           | CH 44                       | 17.58           | 17.52 | 17.59 | 17.54 | 17.50 | 17.49 | 17.48 |
| CH 44                                 | 5220               | 17.61           |                             |                 |       |       |       |       |       |       |
| CH 48                                 | 5240               | 17.60           |                             |                 |       |       |       |       |       |       |
| CH 52                                 | 5260               | 17.55           | CH 60                       | 17.54           | 17.49 | 17.55 | 17.49 | 17.43 | 17.41 | 17.40 |
| CH 60                                 | 5300               | 17.56           |                             |                 |       |       |       |       |       |       |
| CH 64                                 | 5320               | 16.43           |                             |                 |       |       |       |       |       |       |
| CH 100                                | 5500               | 17.77           | CH 100                      | 17.72           | 17.69 | 17.67 | 17.65 | 17.62 | 17.60 | 17.58 |
| CH 116                                | 5580               | 17.54           |                             |                 |       |       |       |       |       |       |
| CH 140                                | 5700               | 17.73           |                             |                 |       |       |       |       |       |       |
| CH 144*                               | 5720               | 17.59           |                             |                 |       |       |       |       |       |       |

Note: The above Frequency and Channel in "\*" were straddle channel.

| 802.11n HT20 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |
|--------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                          |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |
| Channel                                    | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |
|                                            |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| Duty Cycle (%)                             |                    | 92.86     |                             | 86.08     | 81.25 | 77.92 | 70.79 | 66.67 | 63.83 | 62.69 |
| CH 36                                      | 5180               | 16.51     |                             | CH 44     | 17.52 | 17.30 | 17.39 | 17.47 | 17.38 | 17.35 |
| CH 44                                      | 5220               | 17.54     |                             |           |       |       |       |       |       |       |
| CH 48                                      | 5240               | 17.38     |                             |           |       |       |       |       |       |       |
| CH 52                                      | 5260               | 17.33     | CH 60                       | 17.50     | 17.40 | 17.45 | 17.45 | 17.53 | 17.43 | 17.46 |
| CH 60                                      | 5300               | 17.58     |                             |           |       |       |       |       |       |       |
| CH 64                                      | 5320               | 16.40     |                             |           |       |       |       |       |       |       |
| CH 100                                     | 5500               | 17.32     | CH 116                      | 17.32     | 17.18 | 17.14 | 17.12 | 17.23 | 17.04 | 16.94 |
| CH 116                                     | 5580               | 17.54     |                             |           |       |       |       |       |       |       |
| CH 140                                     | 5700               | 16.66     |                             |           |       |       |       |       |       |       |
| CH 144*                                    | 5720               | 17.48     |                             |           |       |       |       |       |       |       |

Note: The above Frequency and Channel in "\*" were straddle channel.



| 802.11n HT40 RF Average Output Power (dBm) |                    |                                                                                                                              |                             |           |       |       |       |       |       |       |       |
|--------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                          |                    |                                                                                                                              | Average Power vs. Data Rate |           |       |       |       |       |       |       |       |
| Channel                                    | Frequency<br>(MHz) | MCS Index                                                                                                                    | Channel                     | MCS Index |       |       |       |       |       |       |       |
|                                            |                    | MCS0                                                                                                                         |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |       |
| Duty Cycle (%)                             |                    | 98.01 <th>MCS1</th> <td>96.47</td> <td>94.38</td> <td>93.62</td> <td>90.29</td> <td>87.21</td> <td>86.25</td> <td>85.14</td> |                             | MCS1      | 96.47 | 94.38 | 93.62 | 90.29 | 87.21 | 86.25 | 85.14 |
| CH 38                                      | 5190               | 13.70                                                                                                                        |                             | CH 46     | 16.85 | 16.81 | 16.76 | 16.81 | 16.83 | 16.80 | 16.81 |
| CH 46                                      | 5230               | 16.86                                                                                                                        |                             |           |       |       |       |       |       |       |       |
| CH 54                                      | 5270               | 17.06                                                                                                                        | CH 54                       | 17.02     | 17.03 | 17.03 | 17.04 | 17.03 | 16.95 | 16.94 |       |
| CH 62                                      | 5310               | 13.45                                                                                                                        |                             |           |       |       |       |       |       |       |       |
| CH 102                                     | 5510               | 14.96                                                                                                                        | CH 110                      | 17.10     | 17.06 | 17.02 | 17.02 | 16.98 | 16.87 | 16.83 |       |
| CH 110                                     | 5550               | 17.11                                                                                                                        |                             |           |       |       |       |       |       |       |       |
| CH 134                                     | 5670               | 16.74                                                                                                                        |                             |           |       |       |       |       |       |       |       |
| CH 142*                                    | 5710               | 17.05                                                                                                                        |                             |           |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.

| 802.11ac VHT20 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |       |
|----------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                            |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |       |
| Channel                                      | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |       |
|                                              |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  |
| Duty Cycle (%)                               |                    | 92.28     |                             |           | 86.87 | 82.29 | 78.07 | 71.11 | 65.79 | 65.28 | 62.50 |
| CH 36                                        | 5180               | 16.57     | CH 44                       | 17.64     | 17.61 | 17.57 | 17.60 | 17.66 | 17.53 | 17.65 | 17.65 |
| CH 44                                        | 5220               | 17.67     |                             |           |       |       |       |       |       |       |       |
| CH 48                                        | 5240               | 17.62     |                             |           |       |       |       |       |       |       |       |
| CH 52                                        | 5260               | 17.46     | CH 60                       | 17.60     | 17.58 | 17.56 | 17.57 | 17.61 | 17.46 | 17.52 | 17.53 |
| CH 60                                        | 5300               | 17.63     |                             |           |       |       |       |       |       |       |       |
| CH 64                                        | 5320               | 16.50     |                             |           |       |       |       |       |       |       |       |
| CH 100                                       | 5500               | 17.37     | CH 116                      | 17.52     | 17.52 | 17.54 | 17.50 | 17.49 | 17.42 | 17.45 | 17.55 |
| CH 116                                       | 5580               | 17.57     |                             |           |       |       |       |       |       |       |       |
| CH 140                                       | 5700               | 16.70     |                             |           |       |       |       |       |       |       |       |
| CH 144*                                      | 5720               | 17.61     |                             |           |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.



| 802.11ac VHT40 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |       |       |
|----------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                            |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                                      | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |       |       |
|                                              |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| Duty Cycle (%)                               |                    | 98.21     |                             | MCS1      | 95.35 | 94.44 | 92.36 | 90.48 | 88.64 | 86.59 | 85.53 | 85.29 |
| CH 38                                        | 5190               | 13.76     | CH 46                       | 16.92     | 16.91 | 16.92 | 16.90 | 16.91 | 16.89 | 16.87 | 16.85 | 16.82 |
| CH 46                                        | 5230               | 16.93     |                             |           |       |       |       |       |       |       |       |       |
| CH 54                                        | 5270               | 17.08     | CH 54                       | 17.07     | 17.06 | 17.04 | 17.05 | 17.06 | 17.04 | 17.02 | 17.00 | 16.95 |
| CH 62                                        | 5310               | 13.61     |                             |           |       |       |       |       |       |       |       |       |
| CH 102                                       | 5510               | 15.04     | CH 110                      | 17.15     | 17.14 | 17.15 | 17.13 | 17.14 | 17.13 | 17.10 | 17.07 | 17.05 |
| CH 110                                       | 5550               | 17.16     |                             |           |       |       |       |       |       |       |       |       |
| CH 134                                       | 5670               | 16.75     |                             |           |       |       |       |       |       |       |       |       |
| CH 142*                                      | 5710               | 17.15     |                             |           |       |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.

| 802.11ac VHT80 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |       |       |
|----------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                            |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                                      | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |       |       |
|                                              |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| Duty Cycle (%)                               |                    | 95.05     |                             | 92.65     | 90.00 | 88.10 | 83.33 | 82.76 | 81.48 | 80.77 | 77.08 | 76.34 |
| CH 042                                       | 5210               | 14.03     | CH 42                       | 13.94     | 13.93 | 13.95 | 14.00 | 13.97 | 13.95 | 13.90 | 14.01 | 13.97 |
| CH 058                                       | 5290z              | 13.14     | CH 58                       | 13.05     | 13.04 | 13.06 | 13.11 | 13.08 | 13.06 | 13.01 | 13.12 | 13.08 |
| CH 106                                       | 5530               | 13.64     | CH 122                      | 16.02     | 16.01 | 16.03 | 16.08 | 16.05 | 16.03 | 15.98 | 16.09 | 16.05 |
| CH 122                                       | 5610               | 16.11     |                             |           |       |       |       |       |       |       |       |       |
| CH 138*                                      | 5690               | 16.18     |                             |           |       |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.



## MIMO &lt;Ant. 1+2&gt;

| 802.11a RF Average Output Power (dBm) |                    |                 |                             |                 |       |       |       |       |       |       |
|---------------------------------------|--------------------|-----------------|-----------------------------|-----------------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                     |                    |                 | Average Power vs. Data Rate |                 |       |       |       |       |       |       |
| Channel                               | Frequency<br>(MHz) | Data Rate (bps) | Channel                     | Data Rate (bps) |       |       |       |       |       |       |
|                                       |                    | 6M              |                             | 9M              | 12M   | 18M   | 24M   | 36M   | 48M   | 54M   |
| CH 36                                 | 5180               | 18.46           | CH 44                       | 19.84           | 19.80 | 19.79 | 19.78 | 19.77 | 19.77 | 19.78 |
| CH 44                                 | 5220               | 19.89           |                             |                 |       |       |       |       |       |       |
| CH 48                                 | 5240               | 19.86           |                             |                 |       |       |       |       |       |       |
| CH 52                                 | 5260               | 19.90           | CH 60                       | 19.88           | 19.86 | 19.85 | 19.85 | 19.84 | 19.84 | 19.82 |
| CH 60                                 | 5300               | 19.91           |                             |                 |       |       |       |       |       |       |
| CH 64                                 | 5320               | 19.21           |                             |                 |       |       |       |       |       |       |
| CH 100                                | 5500               | 19.58           | CH 116                      | 19.95           | 19.93 | 19.92 | 19.90 | 19.88 | 19.86 | 19.84 |
| CH 116                                | 5580               | 19.97           |                             |                 |       |       |       |       |       |       |
| CH 140                                | 5700               | 19.42           |                             |                 |       |       |       |       |       |       |
| CH 144*                               | 5720               | 19.92           |                             |                 |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.

| 802.11n HT20 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |
|--------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                          |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |
| Channel                                    | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |
|                                            |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 36                                      | 5180               | 18.77     | CH 44                       | 19.79     | 19.71 | 19.78 | 19.75 | 19.76 | 19.72 | 19.76 |
| CH 44                                      | 5220               | 19.89     |                             |           |       |       |       |       |       |       |
| CH 48                                      | 5240               | 19.77     |                             |           |       |       |       |       |       |       |
| CH 52                                      | 5260               | 19.71     | CH 60                       | 19.60     | 19.51 | 19.57 | 19.59 | 19.67 | 19.62 | 19.68 |
| CH 60                                      | 5300               | 19.86     |                             |           |       |       |       |       |       |       |
| CH 64                                      | 5320               | 18.73     |                             |           |       |       |       |       |       |       |
| CH 100                                     | 5500               | 19.57     | CH 116                      | 19.64     | 19.50 | 19.52 | 19.54 | 19.60 | 19.46 | 19.50 |
| CH 116                                     | 5580               | 19.83     |                             |           |       |       |       |       |       |       |
| CH 140                                     | 5700               | 19.02     |                             |           |       |       |       |       |       |       |
| CH 144*                                    | 5720               | 19.79     |                             |           |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.



| 802.11n HT40 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |
|--------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                          |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |
| Channel                                    | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |
|                                            |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 38                                      | 5190               | 16.02     | CH 46                       | 19.17     | 19.14 | 19.14 | 19.14 | 19.13 | 19.12 | 19.15 |
| CH 46                                      | 5230               | 19.18     |                             |           |       |       |       |       |       |       |
| CH 54                                      | 5270               | 19.41     | CH 54                       | 19.40     | 19.39 | 19.39 | 19.32 | 19.30 | 19.27 | 19.31 |
| CH 62                                      | 5310               | 15.90     |                             |           |       |       |       |       |       |       |
| CH 102                                     | 5510               | 17.06     | CH 110                      | 19.35     | 19.33 | 19.26 | 19.22 | 19.20 | 19.12 | 19.15 |
| CH 110                                     | 5550               | 19.36     |                             |           |       |       |       |       |       |       |
| CH 134                                     | 5670               | 19.14     |                             |           |       |       |       |       |       |       |
| CH 142*                                    | 5710               | 19.28     |                             |           |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.

| 802.11ac VHT20 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |       |
|----------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                            |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |       |
| Channel                                      | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |       |
|                                              |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  |
| CH 36                                        | 5180               | 18.79     | CH 44                       | 19.84     | 19.80 | 19.87 | 19.81 | 19.80 | 19.75 | 19.80 | 19.80 |
| CH 44                                        | 5220               | 19.91     |                             |           |       |       |       |       |       |       |       |
| CH 48                                        | 5240               | 19.80     |                             |           |       |       |       |       |       |       |       |
| CH 52                                        | 5260               | 19.73     | CH 60                       | 19.64     | 19.59 | 19.65 | 19.64 | 19.71 | 19.64 | 19.73 | 19.73 |
| CH 60                                        | 5300               | 19.90     |                             |           |       |       |       |       |       |       |       |
| CH 64                                        | 5320               | 18.80     |                             |           |       |       |       |       |       |       |       |
| CH 100                                       | 5500               | 19.63     | CH 116                      | 19.66     | 19.57 | 19.58 | 19.59 | 19.64 | 19.50 | 19.56 | 19.65 |
| CH 116                                       | 5580               | 19.85     |                             |           |       |       |       |       |       |       |       |
| CH 140                                       | 5700               | 19.07     |                             |           |       |       |       |       |       |       |       |
| CH 144*                                      | 5720               | 19.92     |                             |           |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.



| 802.11ac VHT40 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |       |       |
|----------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                            |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                                      | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |       |       |
|                                              |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 38                                        | 5190               | 16.10     | CH 46                       | 19.32     | 19.32 | 19.28 | 19.25 | 19.28 | 19.29 | 19.31 | 19.29 | 19.30 |
| CH 46                                        | 5230               | 19.33     |                             |           |       |       |       |       |       |       |       |       |
| CH 54                                        | 5270               | 19.50     | CH 54                       | 19.49     | 19.49 | 19.47 | 19.42 | 19.37 | 19.40 | 19.43 | 19.39 | 19.37 |
| CH 62                                        | 5310               | 15.96     |                             |           |       |       |       |       |       |       |       |       |
| CH 102                                       | 5510               | 17.14     | CH 110                      | 19.46     | 19.42 | 19.35 | 19.31 | 19.32 | 19.28 | 19.29 | 19.19 | 19.20 |
| CH 110                                       | 5550               | 19.50     |                             |           |       |       |       |       |       |       |       |       |
| CH 134                                       | 5670               | 19.17     |                             |           |       |       |       |       |       |       |       |       |
| CH 142*                                      | 5710               | 19.42     |                             |           |       |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.

| 802.11ac VHT80 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |       |       |
|----------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                            |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                                      | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |       |       |
|                                              |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 42                                        | 5210               | 16.26     | CH 42                       | 16.24     | 16.21 | 16.23 | 16.21 | 16.25 | 16.23 | 16.24 | 16.20 | 16.19 |
| CH 58                                        | 5290               | 15.58     | CH 58                       | 15.56     | 15.53 | 15.54 | 15.55 | 15.56 | 15.55 | 15.57 | 15.54 | 15.51 |
| CH 106                                       | 5530               | 15.91     | CH 122                      | 18.32     | 18.29 | 18.29 | 18.29 | 18.34 | 18.31 | 18.31 | 18.30 | 18.25 |
| CH 122                                       | 5610               | 18.34     |                             |           |       |       |       |       |       |       |       |       |
| CH 138*                                      | 5690               | 18.31     |                             |           |       |       |       |       |       |       |       |       |

**Note:**

1. The above Frequency and Channel in "\*" were straddle channel.
2. MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.



## &lt;TXBF Modes&gt;

## MIMO &lt;Ant. 1+2&gt;

| 802.11n HT20 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |
|--------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                          |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |
| Channel                                    | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |
|                                            |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 36                                      | 5180               | 18.42     | CH 44                       | 19.60     | 19.56 | 19.50 | 19.52 | 19.59 | 19.62 | 19.60 |
| CH 44                                      | 5220               | 19.66     |                             |           |       |       |       |       |       |       |
| CH 48                                      | 5240               | 19.58     |                             |           |       |       |       |       |       |       |
| CH 52                                      | 5260               | 19.60     | CH 52                       | 19.56     | 19.50 | 19.54 | 19.44 | 19.46 | 19.56 | 19.52 |
| CH 60                                      | 5300               | 19.56     |                             |           |       |       |       |       |       |       |
| CH 64                                      | 5320               | 18.66     |                             |           |       |       |       |       |       |       |
| CH 100                                     | 5500               | 19.48     | CH 116                      | 19.52     | 19.51 | 19.52 | 19.46 | 19.49 | 19.45 | 19.51 |
| CH 116                                     | 5580               | 19.55     |                             |           |       |       |       |       |       |       |
| CH 140                                     | 5700               | 18.96     |                             |           |       |       |       |       |       |       |
| CH 144*                                    | 5720               | 19.66     |                             |           |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.

| 802.11n HT40 RF Average Output Power (dBm) |                    |           |                     |           |       |       |       |       |       |       |
|--------------------------------------------|--------------------|-----------|---------------------|-----------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                          |                    |           | Power vs. Data Rate |           |       |       |       |       |       |       |
| Channel                                    | Frequency<br>(MHz) | MCS Index | Channel             | MCS Index |       |       |       |       |       |       |
|                                            |                    | MCS0      |                     | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| CH 38                                      | 5190               | 15.92     | CH 46               | 19.14     | 19.10 | 19.16 | 19.12 | 19.10 | 19.06 | 19.04 |
| CH 46                                      | 5230               | 19.30     |                     |           |       |       |       |       |       |       |
| CH 54                                      | 5270               | 19.20     | CH 54               | 19.20     | 19.20 | 19.18 | 19.10 | 19.12 | 19.10 | 19.00 |
| CH 62                                      | 5310               | 15.82     |                     |           |       |       |       |       |       |       |
| CH 102                                     | 5510               | 17.00     | CH 110              | 19.29     | 19.25 | 19.22 | 19.22 | 19.20 | 19.26 | 19.22 |
| CH 110                                     | 5550               | 19.32     |                     |           |       |       |       |       |       |       |
| CH 134                                     | 5670               | 18.99     |                     |           |       |       |       |       |       |       |
| CH 142*                                    | 5710               | 19.33     |                     |           |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.



| 802.11ac VHT20 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |       |
|----------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                            |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |       |
| Channel                                      | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |       |
|                                              |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  |
| CH 36                                        | 5180               | 18.68     | CH 44                       | 19.76     | 19.72 | 19.66 | 19.69 | 19.75 | 19.79 | 19.76 | 19.79 |
| CH 44                                        | 5220               | 19.82     |                             |           |       |       |       |       |       |       |       |
| CH 48                                        | 5240               | 19.74     |                             |           |       |       |       |       |       |       |       |
| CH 52                                        | 5260               | 19.70     | CH 52                       | 19.66     | 19.60 | 19.64 | 19.54 | 19.56 | 19.66 | 19.62 | 19.52 |
| CH 60                                        | 5300               | 19.66     |                             |           |       |       |       |       |       |       |       |
| CH 64                                        | 5320               | 18.76     |                             |           |       |       |       |       |       |       |       |
| CH 100                                       | 5500               | 19.62     | CH 116                      | 19.66     | 19.69 | 19.66 | 19.64 | 19.66 | 19.62 | 19.69 | 19.66 |
| CH 116                                       | 5580               | 19.72     |                             |           |       |       |       |       |       |       |       |
| CH 140                                       | 5700               | 19.06     |                             |           |       |       |       |       |       |       |       |
| CH 144*                                      | 5720               | 19.76     |                             |           |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.

| 802.11ac VHT40 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |       |       |
|----------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                            |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                                      | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |       |       |
|                                              |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 38                                        | 5190               | 16.07     | CH 46                       | 19.24     | 19.20 | 19.26 | 19.22 | 19.20 | 19.16 | 19.14 | 19.24 | 19.26 |
| CH 46                                        | 5230               | 19.30     |                             |           |       |       |       |       |       |       |       |       |
| CH 54                                        | 5270               | 19.30     | CH 54                       | 19.26     | 19.26 | 19.24 | 19.20 | 19.22 | 19.20 | 19.10 | 19.20 | 19.24 |
| CH 62                                        | 5310               | 15.92     |                             |           |       |       |       |       |       |       |       |       |
| CH 102                                       | 5510               | 17.10     | CH 110                      | 19.42     | 19.39 | 19.36 | 19.36 | 19.34 | 19.40 | 19.36 | 19.39 | 19.32 |
| CH 110                                       | 5550               | 19.46     |                             |           |       |       |       |       |       |       |       |       |
| CH 134                                       | 5670               | 19.09     |                             |           |       |       |       |       |       |       |       |       |
| CH 142*                                      | 5710               | 19.46     |                             |           |       |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle channel.



| 802.11ac VHT80 RF Average Output Power (dBm) |                    |           |                             |           |       |       |       |       |       |       |       |       |
|----------------------------------------------|--------------------|-----------|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                            |                    |           | Average Power vs. Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                                      | Frequency<br>(MHz) | MCS Index | Channel                     | MCS Index |       |       |       |       |       |       |       |       |
|                                              |                    | MCS0      |                             | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 42                                        | 5210               | 16.25     | CH 42                       | 16.19     | 16.21 | 16.21 | 16.11 | 16.09 | 16.19 | 16.15 | 16.17 | 16.09 |
| CH 58                                        | 5290               | 15.32     | CH 58                       | 15.26     | 15.22 | 15.29 | 15.26 | 15.12 | 15.29 | 15.22 | 15.20 | 15.16 |
| CH 106                                       | 5530               | 15.79     | CH 122                      |           |       |       |       |       |       |       |       |       |
| CH 122                                       | 5610               | 18.30     |                             |           |       |       |       |       |       |       |       |       |
| CH 138*                                      | 5690               | 18.23     |                             |           |       |       |       |       |       |       |       |       |

**Note:**

1. The above Frequency and Channel in "\*" were straddle channel.
2. MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

## 2.3 Test Mode

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

### Single Antenna

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

### MIMO Antenna

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

| Test Cases                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AC Conducted Emission</b> | <p>Mode 1 : WLAN (5GHz) Link + Bluetooth Link + NFC Link + AC Adapter + Charging Only Cable + Earphone 1 with Audio Adapter connect to EUT</p> <p>Mode 2 : WLAN (5GHz) Link + Bluetooth Link with Earphone 3 + NFC Link + AC Adapter + Snap on USB Cable (Data Link with Notebook) + Copy Data from Notebook to EDA (SD Card)</p> <p>Mode 3 : WLAN (5GHz) Link + Bluetooth Link + NFC Link + AC Adapter + Charging Only Cable + Earphone 2 with Audio Adapter connect to EUT</p> |



| 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                     |



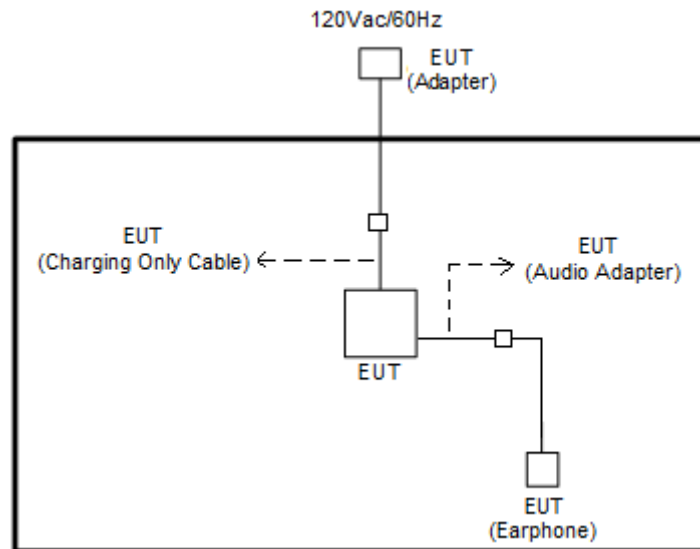
| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11ac VHT20         | 802.11ac VHT20          | 802.11ac VHT20          |
| L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

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

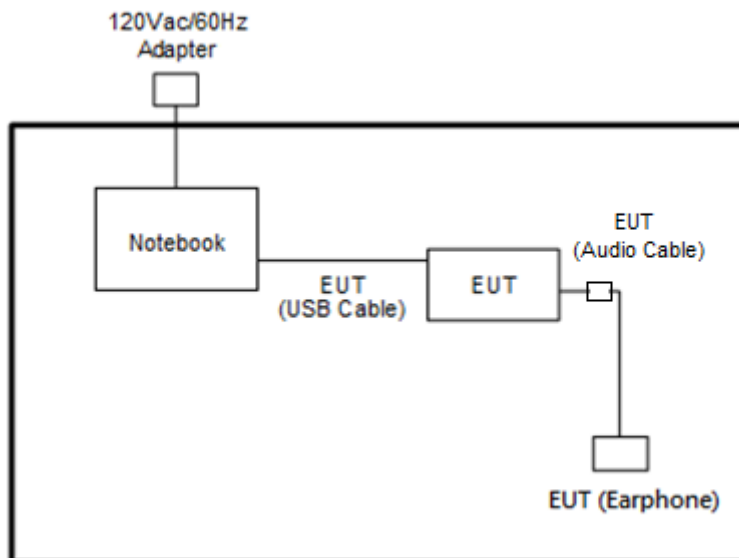
| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11ac VHT80         | 802.11ac VHT80          | 802.11ac VHT80          |
| L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

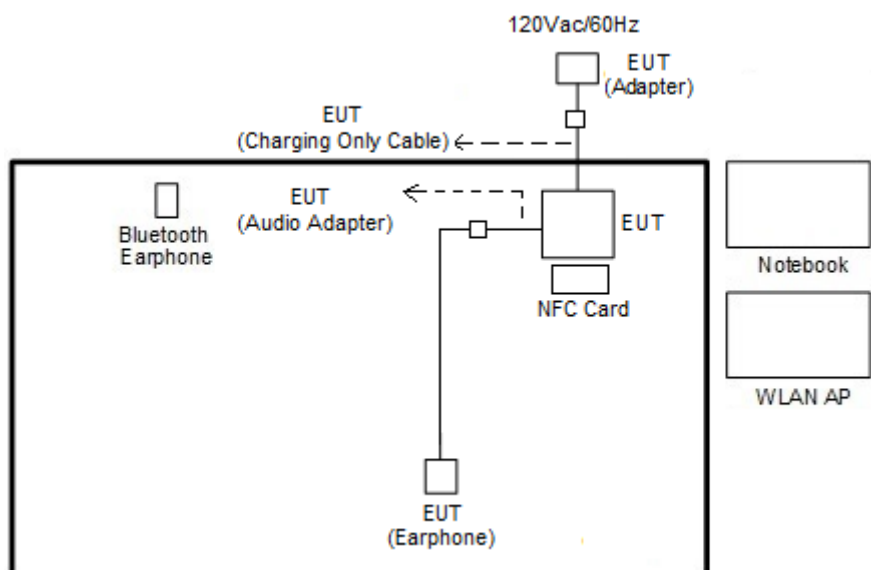
## 2.4 Connection Diagram of Test System

### <WLAN Tx CDD Mode>



### <WLAN Tx TXBF Mode>



**<AC Conducted Emission Mode>**

**2.5 Support Unit used in test configuration and system**

| Item | Equipment          | Trade Name    | Model Name     | FCC ID                                       | Data Cable        | Power Cord                                                 |
|------|--------------------|---------------|----------------|----------------------------------------------|-------------------|------------------------------------------------------------|
| 1.   | Bluetooth Earphone | Sony Ericsson | MW600          | PY7DDA-2029                                  | N/A               | N/A                                                        |
| 2.   | WLAN AP            | D-Link        | DIR-628        | KA2DIR628A2                                  | N/A               | Unshielded, 1.8 m                                          |
| 3.   | Notebook           | DELL          | Latitude E6320 | FCC DoC/<br>Contains FCC ID:<br>QDS-BRCM1054 | N/A               | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 4.   | Notebook           | DELL          | P20G           | FCC DoC/<br>Contains FCC ID:<br>QDS-BRCM1051 | N/A               | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 5.   | iPod Earphone      | Apple         | N/A            | Verification                                 | Unshielded, 1.0 m | N/A                                                        |
| 6.   | SD Card            | SanDisk       | MicroSD HC     | FCC DoC                                      | N/A               | N/A                                                        |
| 7.   | NFC Card           | Metro Taipei  | Easy Card      | N/A                                          | N/A               | N/A                                                        |



## **2.6 EUT Operation Test Setup**

For WLAN CDD modes, programmed RF utility, "CMD" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

For WLAN MIMO TXBF modes, the EUT was tested under normal operation and link to another device with power, modulation modes and data rates controlled by engineer mode command lines. The CMD software tool was used to make EUT continuous transmitting signals.



## 2.7 Measurement Results Explanation Example

**For all conducted test items:**

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

Example :

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

*Offset = RF cable loss + attenuator factor.*

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

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

### 3 Test Result

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

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

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

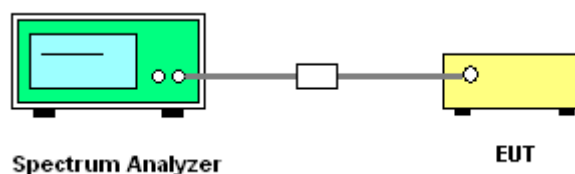
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW)  $\geq 3 * \text{RBW}$ .
8. Measure and record the results in the test report.

##### 3.1.4 Test Setup

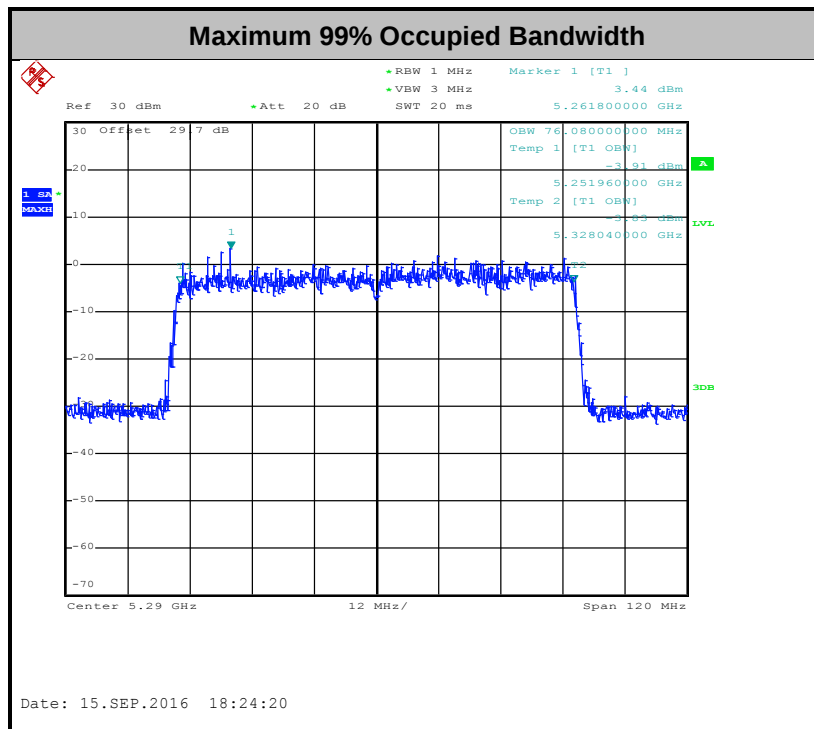
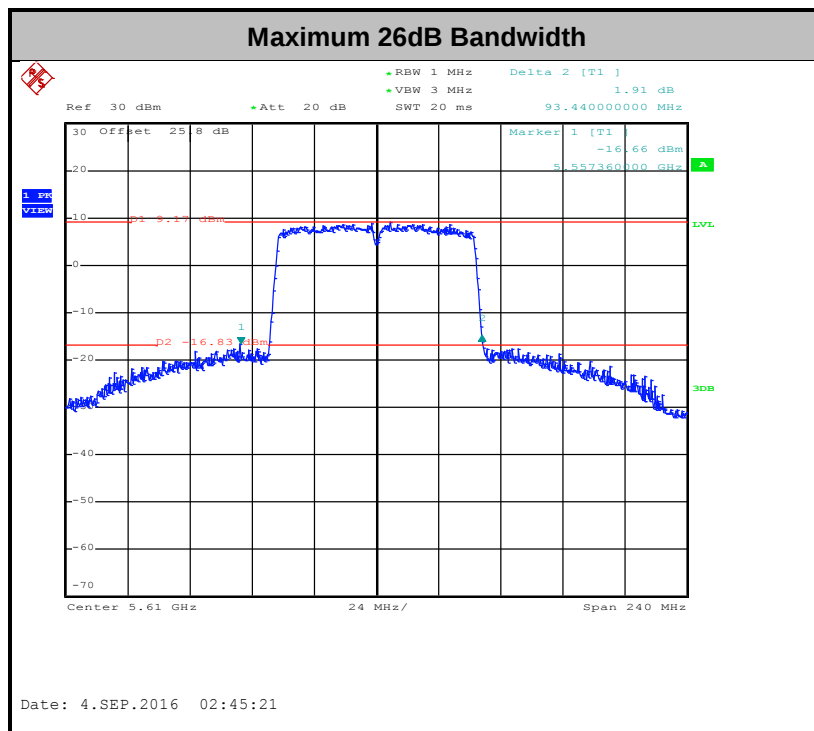


##### 3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



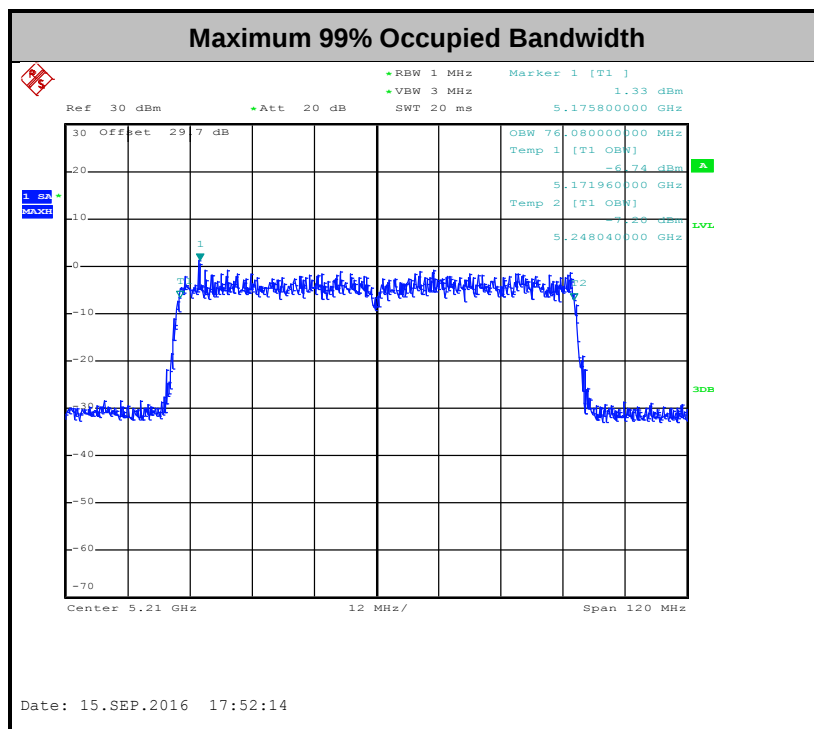
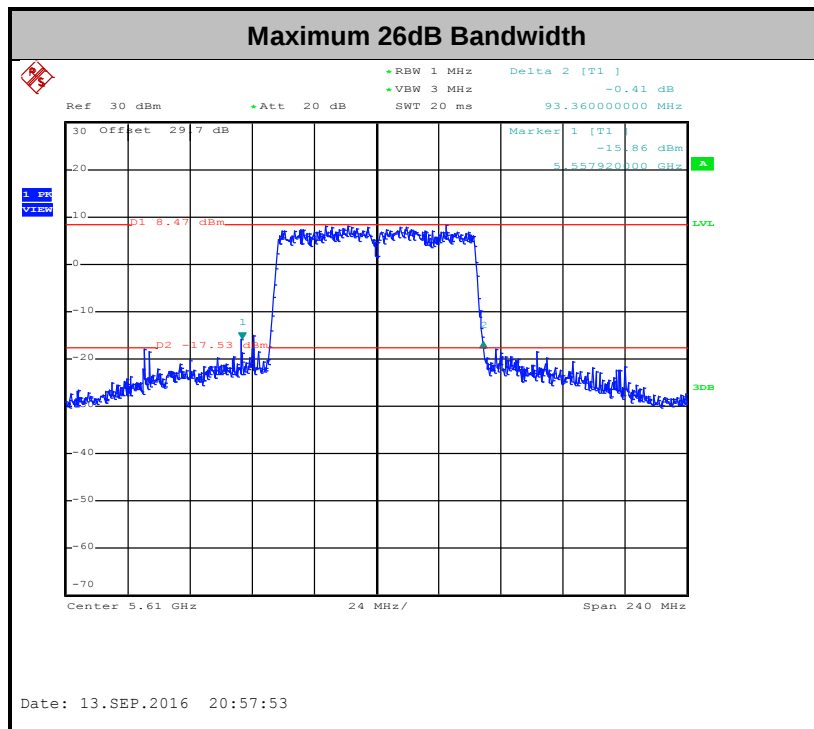
<CDD Modes>



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



## &lt;TXBF Modes&gt;



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



## **3.2 Maximum Conducted Output Power Measurement**

### **3.2.1 Limit of Maximum Conducted Output Power**

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

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

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

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

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

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

### **3.2.2 Measuring Instruments**

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



### **3.2.3 Test Procedures**

#### **CDD modes**

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03 for CDD modes.

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

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

#### **TXBF modes**

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03 for TXBF modes.

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

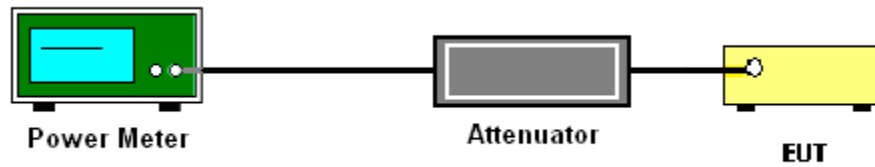
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

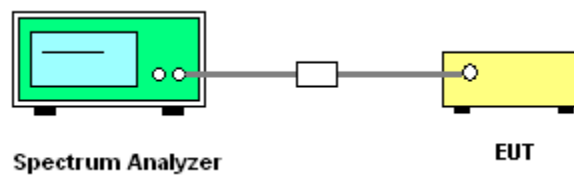
Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

### 3.2.4 Test Setup

For normal channel:



For straddle channel:

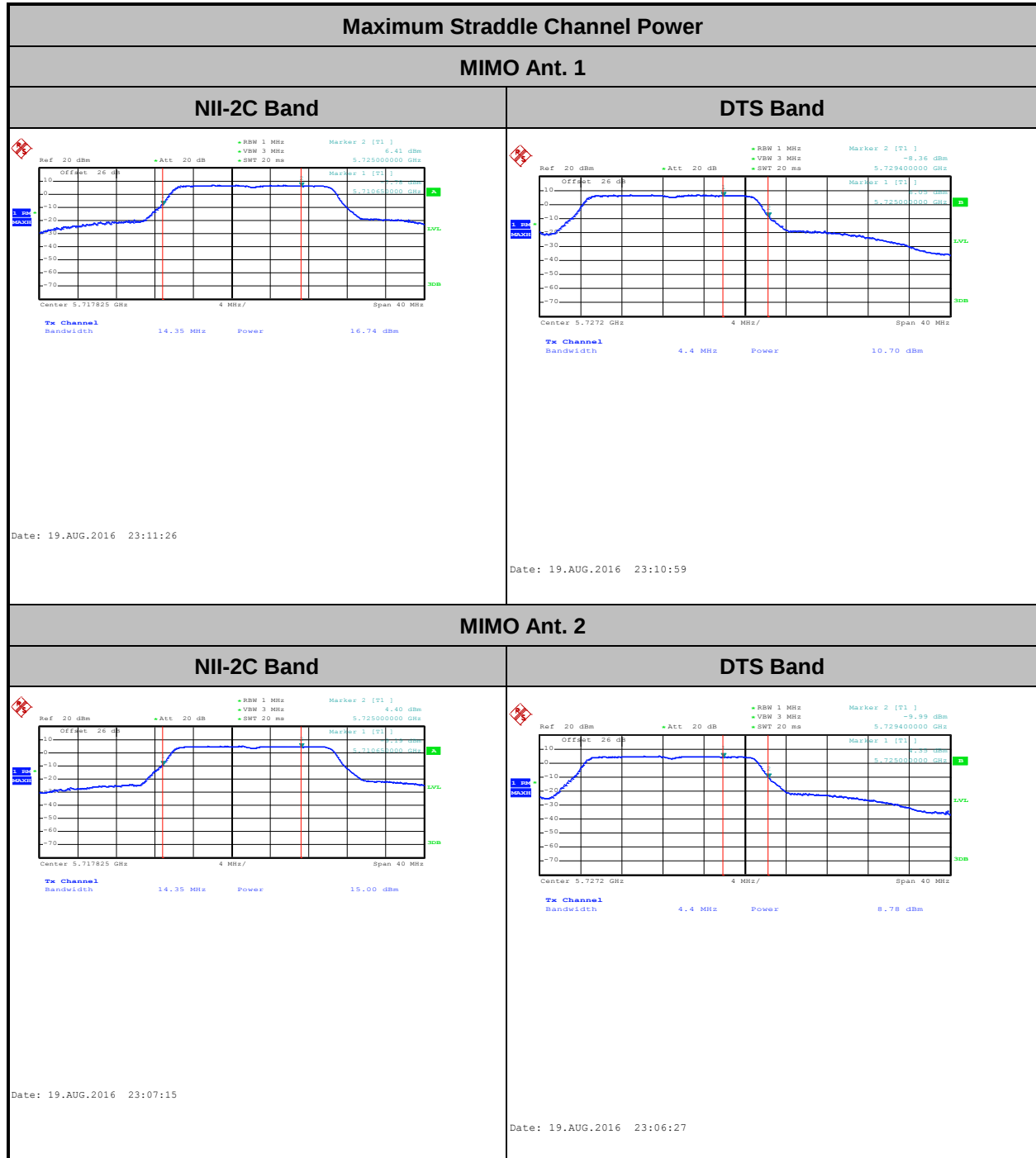




### 3.2.5 Test Result of Maximum Conducted Output Power

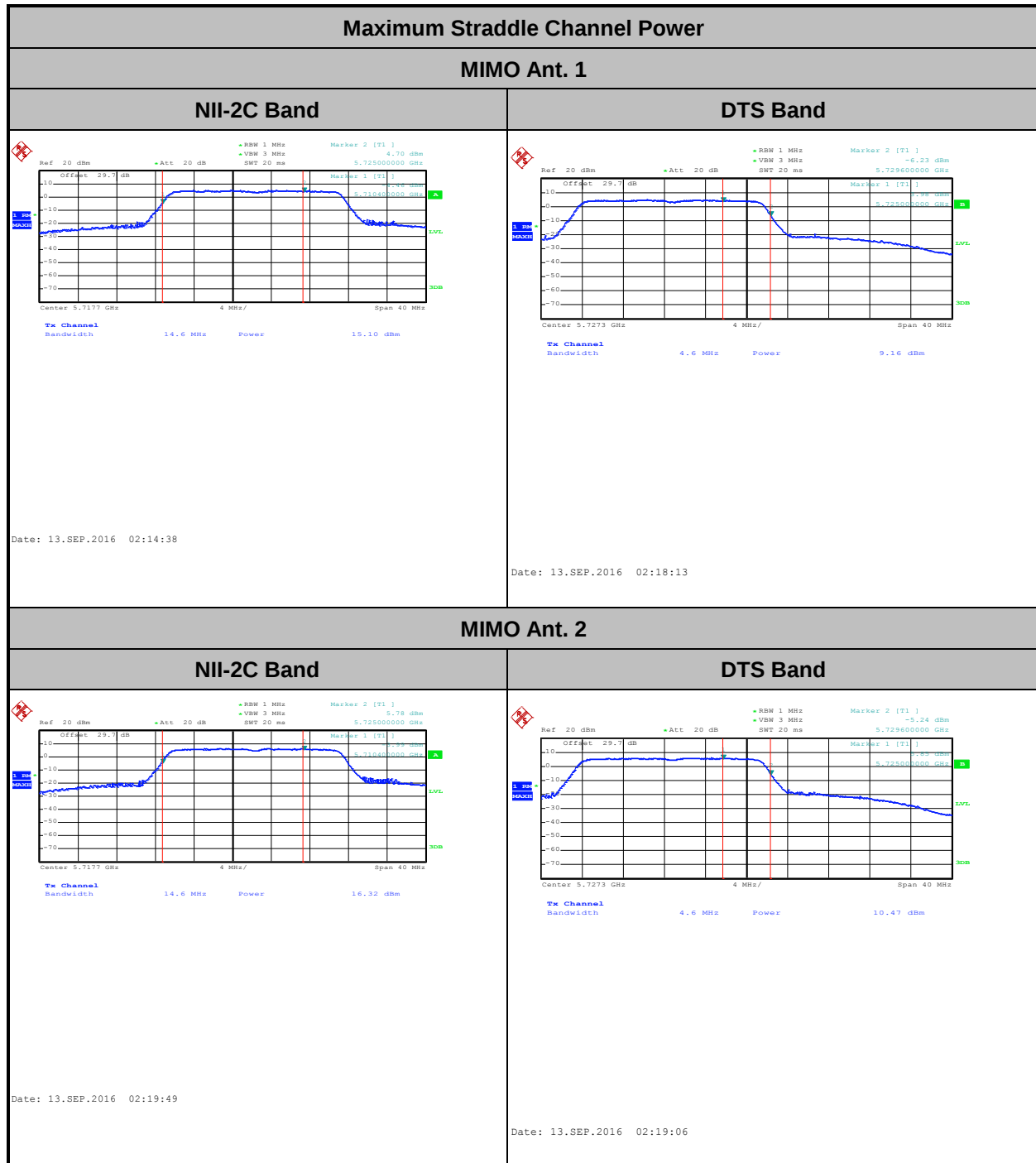
Please refer to Appendix A.

<CDD Modes>





## &lt;TXBF Modes&gt;





### **3.3 Power Spectral Density Measurement**

#### **3.3.1 Limit of Power Spectral Density**

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

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

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

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

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

#### **3.3.2 Measuring Instruments**

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



### 3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

Section F) Maximum power spectral density.

#### CDD modes

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

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

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW  $\geq$  3 MHz.
- Number of points in sweep  $\geq$  2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add  $10 \log(1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.

#### TXBF modes

##### **# Method SA-3 #**

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

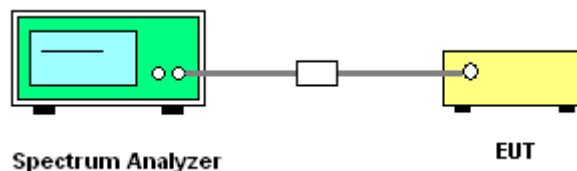
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW  $\geq$  3 MHz
- Number of points in sweep  $\geq$  2 Span / RBW.
- Sweep time  $\leq$  (number of points in sweep)  $\times$  T, when duty cycle is less than 98 percent where T is the minimum transmission 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 PSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

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

### 3.3.4 Test Setup

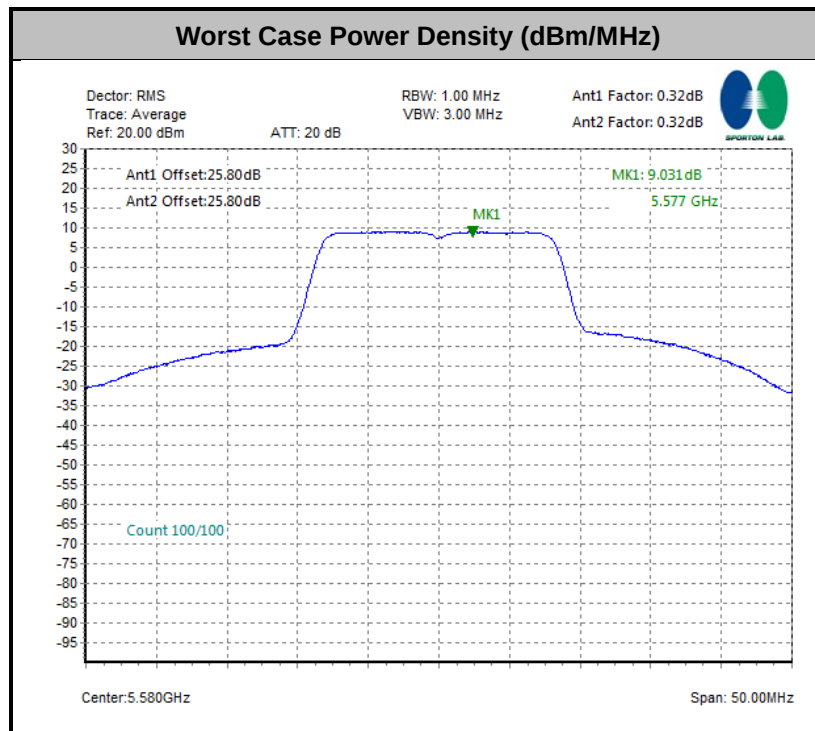


### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

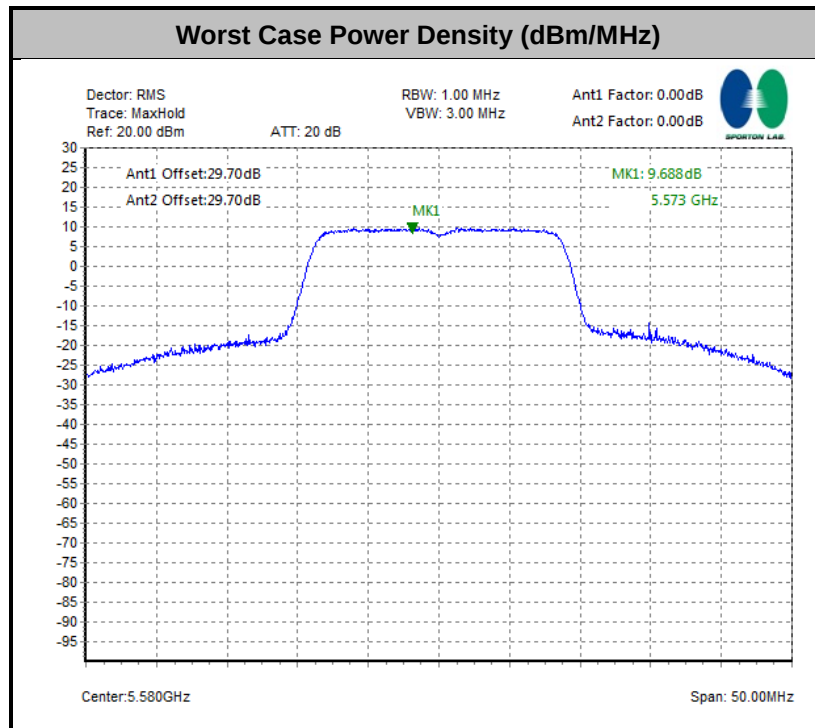


<CDD Modes>



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

<TXBF Modes>



### 3.4 Unwanted Emissions Measurement

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

#### 3.4.1 Limit of Unwanted Emissions

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

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

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

- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

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

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

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

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

- (3) KDB789033 D02 v01r03 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

### 3.4.2 Measuring Instruments

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

### 3.4.3 Test Procedures

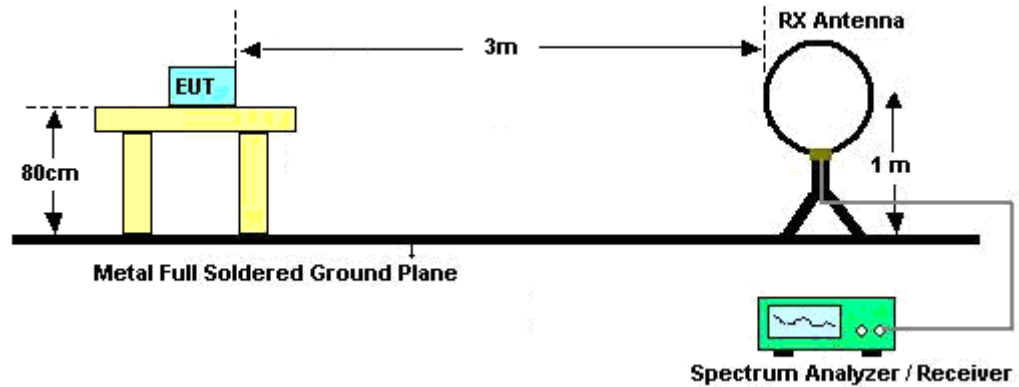
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure 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 ≥ 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.



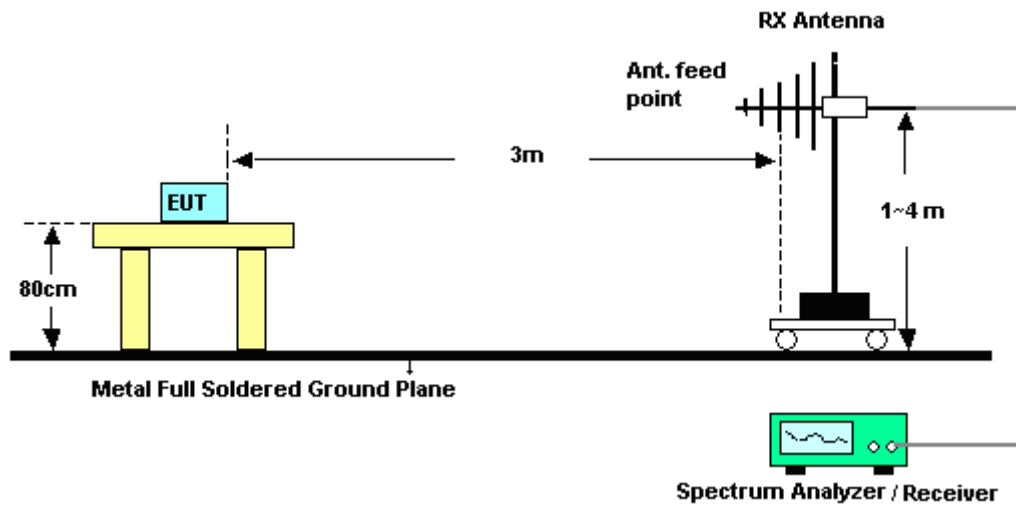
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

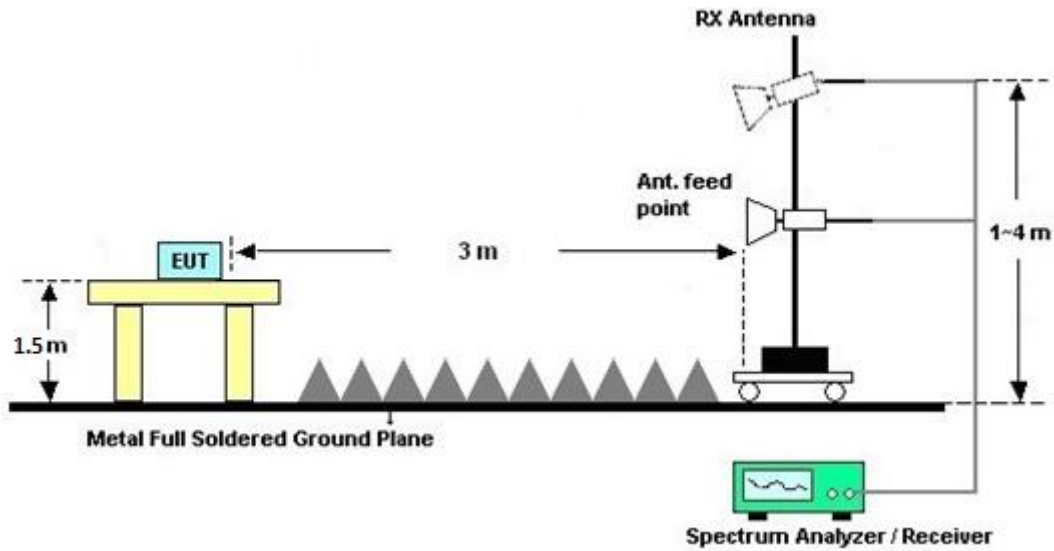


For radiated emissions from 30MHz to 1GHz

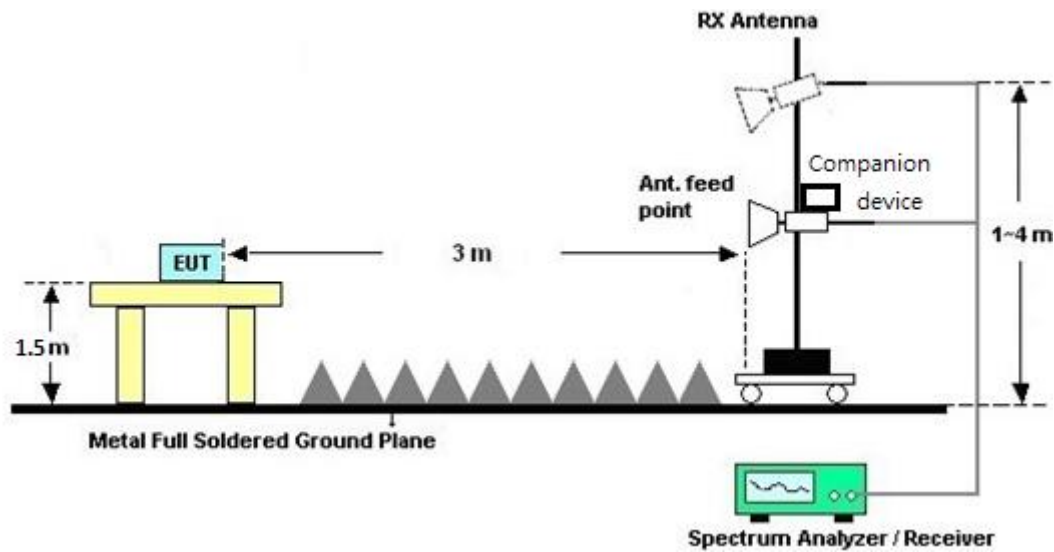


For radiated emissions above 1GHz

CDD modes



TXBF mode





### **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 per 15.31(o) was not reported.

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

Please refer to Appendix B and C.

### **3.4.7 Duty Cycle**

Please refer to Appendix D.

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

Please refer to Appendix B and C.

### 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.

For terminal test result, the testing follows FCC KDB 174176.

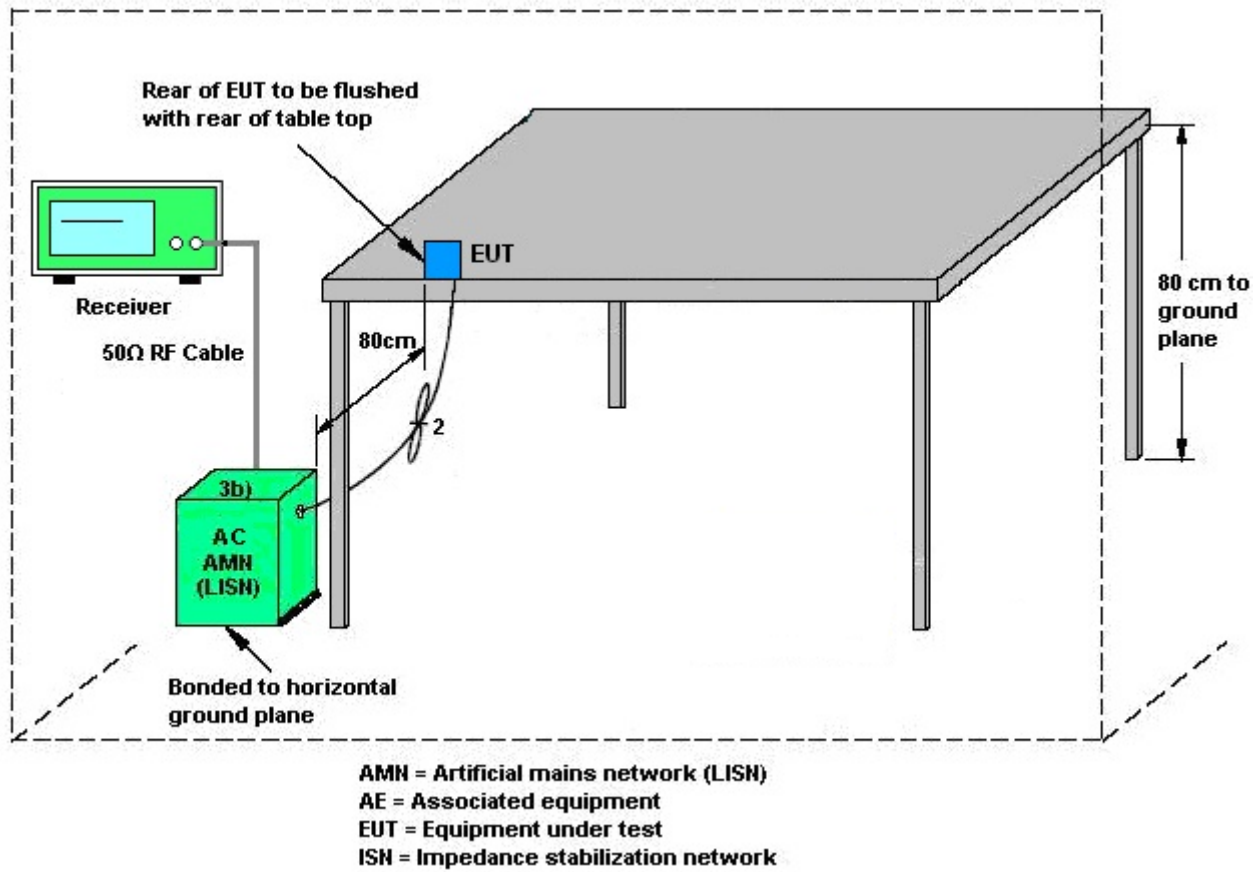
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

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

### 3.5.4 Test Setup

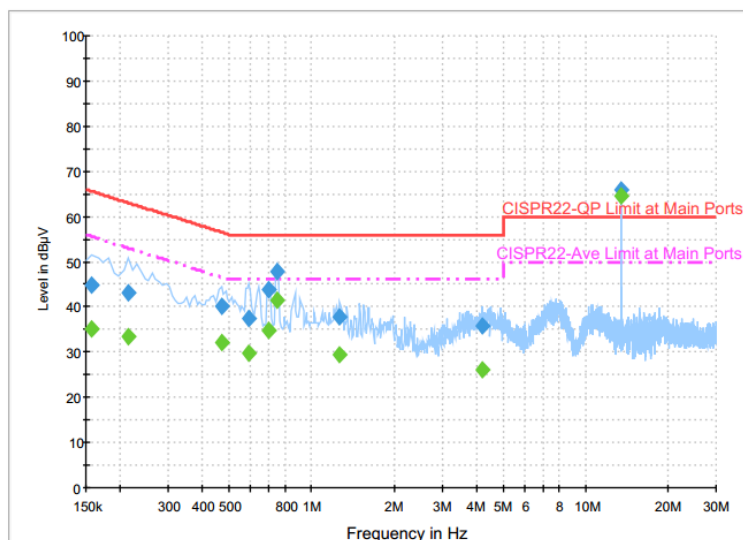




## 3.5.5 Test Result of AC Conducted Emission

## &lt;Original Test Result&gt;

|                 |                                                                                                                                   |                     |        |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------|--------|
| Test Mode :     | Mode 1                                                                                                                            | Temperature :       | 22~24℃ |
| Test Engineer : | Arthur Hsieh                                                                                                                      | Relative Humidity : | 51~53% |
| Test Voltage :  | 120Vac / 60Hz                                                                                                                     | Phase :             | Line   |
| Function Type : | WLAN (5GHz) Link + Bluetooth Link + NFC Link + AC Adapter + Charging Only<br>Cable + Earphone 1 with Audio Adapter connect to EUT |                     |        |



## Final Result : QuasiPeak

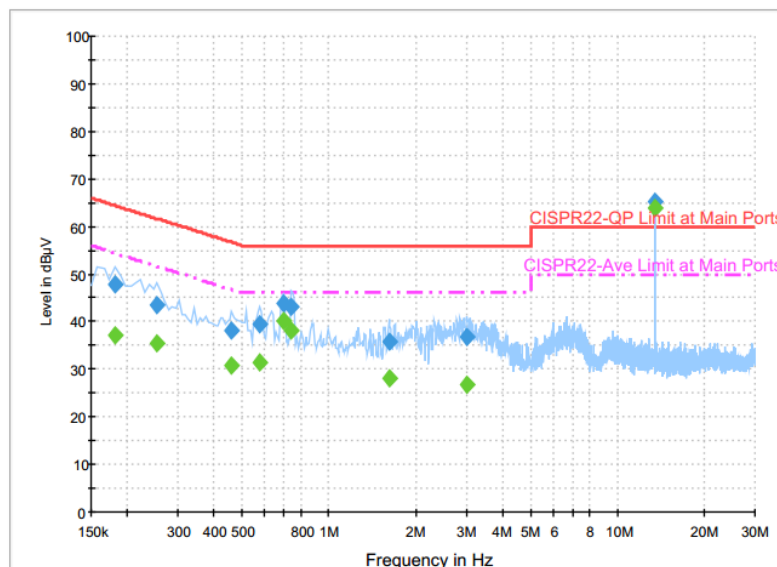
| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.158000        | 44.7             | Off    | L1   | 19.6       | 20.9        | 65.6         |
| 0.214000        | 43.3             | Off    | L1   | 19.6       | 19.7        | 63.0         |
| 0.470000        | 40.1             | Off    | L1   | 19.6       | 16.4        | 56.5         |
| 0.590000        | 37.5             | Off    | L1   | 19.6       | 18.5        | 56.0         |
| 0.694000        | 43.8             | Off    | L1   | 19.6       | 12.2        | 56.0         |
| 0.750000        | 47.9             | Off    | L1   | 19.6       | 8.1         | 56.0         |
| 1.270000        | 37.8             | Off    | L1   | 19.6       | 18.2        | 56.0         |
| 4.182000        | 35.7             | Off    | L1   | 19.7       | 20.3        | 56.0         |
| 13.558000       | 66.0             | Off    | L1   | 19.8       | -6.0        | 60.0         |

## Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.158000        | 35.1           | Off    | L1   | 19.6       | 20.5        | 55.6         |
| 0.214000        | 33.6           | Off    | L1   | 19.6       | 19.4        | 53.0         |
| 0.470000        | 32.2           | Off    | L1   | 19.6       | 14.3        | 46.5         |
| 0.590000        | 29.7           | Off    | L1   | 19.6       | 16.3        | 46.0         |
| 0.694000        | 34.8           | Off    | L1   | 19.6       | 11.2        | 46.0         |
| 0.750000        | 41.4           | Off    | L1   | 19.6       | 4.6         | 46.0         |
| 1.270000        | 29.4           | Off    | L1   | 19.6       | 16.6        | 46.0         |
| 4.182000        | 26.1           | Off    | L1   | 19.7       | 19.9        | 46.0         |
| 13.558000       | 64.7           | Off    | L1   | 19.8       | -14.7       | 50.0         |



|                 |                                                                                                                                   |                     |         |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Test Mode :     | Mode 1                                                                                                                            | Temperature :       | 22~24°C |
| Test Engineer : | Arthur Hsieh                                                                                                                      | Relative Humidity : | 51~53%  |
| Test Voltage :  | 120Vac / 60Hz                                                                                                                     | Phase :             | Neutral |
| Function Type : | WLAN (5GHz) Link + Bluetooth Link + NFC Link + AC Adapter + Charging Only<br>Cable + Earphone 1 with Audio Adapter connect to EUT |                     |         |



## Final Result : QuasiPeak

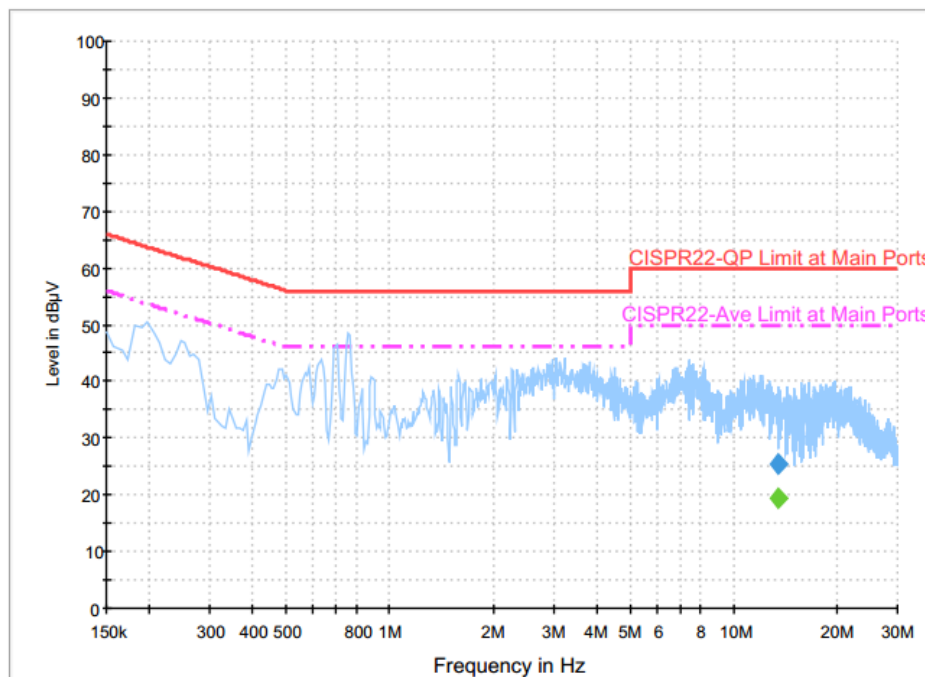
| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.182000        | 48.0             | Off    | N    | 19.6       | 16.4        | 64.4         |
| 0.254000        | 43.6             | Off    | N    | 19.6       | 18.0        | 61.6         |
| 0.462000        | 38.0             | Off    | N    | 19.6       | 18.7        | 56.7         |
| 0.574000        | 39.4             | Off    | N    | 19.6       | 16.6        | 56.0         |
| 0.694000        | 43.9             | Off    | N    | 19.6       | 12.1        | 56.0         |
| 0.742000        | 43.3             | Off    | N    | 19.6       | 12.7        | 56.0         |
| 1.614000        | 35.9             | Off    | N    | 19.6       | 20.1        | 56.0         |
| 2.998000        | 36.7             | Off    | N    | 19.5       | 19.3        | 56.0         |
| 13.558000       | 65.4             | Off    | N    | 19.8       | -5.4        | 60.0         |

## Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.182000        | 37.3           | Off    | N    | 19.6       | 17.1        | 54.4         |
| 0.254000        | 35.5           | Off    | N    | 19.6       | 16.1        | 51.6         |
| 0.462000        | 30.7           | Off    | N    | 19.6       | 16.0        | 46.7         |
| 0.574000        | 31.6           | Off    | N    | 19.6       | 14.4        | 46.0         |
| 0.694000        | 40.0           | Off    | N    | 19.6       | 6.0         | 46.0         |
| 0.742000        | 38.2           | Off    | N    | 19.6       | 7.8         | 46.0         |
| 1.614000        | 28.0           | Off    | N    | 19.6       | 18.0        | 46.0         |
| 2.998000        | 26.9           | Off    | N    | 19.5       | 19.1        | 46.0         |
| 13.558000       | 64.0           | Off    | N    | 19.8       | -14.0       | 50.0         |

**<Terminal Test Result>**

|                        |                                                                                                                                   |                            |         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 1                                                                                                                            | <b>Temperature :</b>       | 22~24°C |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                                      | <b>Relative Humidity :</b> | 51~53%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                                     | <b>Phase :</b>             | Line    |
| <b>Function Type :</b> | WLAN (5GHz) Link + Bluetooth Link + NFC Link + AC Adapter + Charging Only<br>Cable + Earphone 1 with Audio Adapter connect to EUT |                            |         |

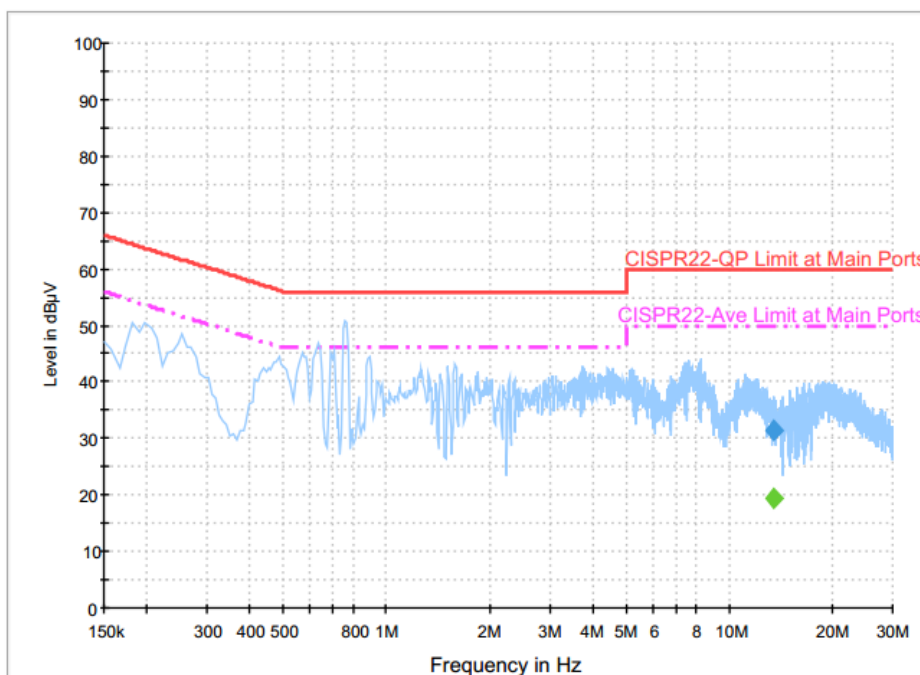

**Final Result : QuasiPeak**

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 13.558000       | 25.3             | Off    | L1   | 19.8       | 34.7        | 60.0         |

**Final Result : Average**

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 13.558000       | 19.3           | Off    | L1   | 19.8       | 30.7        | 50.0         |

|                        |                                                                                                                                   |                            |         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 1                                                                                                                            | <b>Temperature :</b>       | 22~24°C |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                                      | <b>Relative Humidity :</b> | 51~53%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                                     | <b>Phase :</b>             | Neutral |
| <b>Function Type :</b> | WLAN (5GHz) Link + Bluetooth Link + NFC Link + AC Adapter + Charging Only<br>Cable + Earphone 1 with Audio Adapter connect to EUT |                            |         |


**Final Result : QuasiPeak**

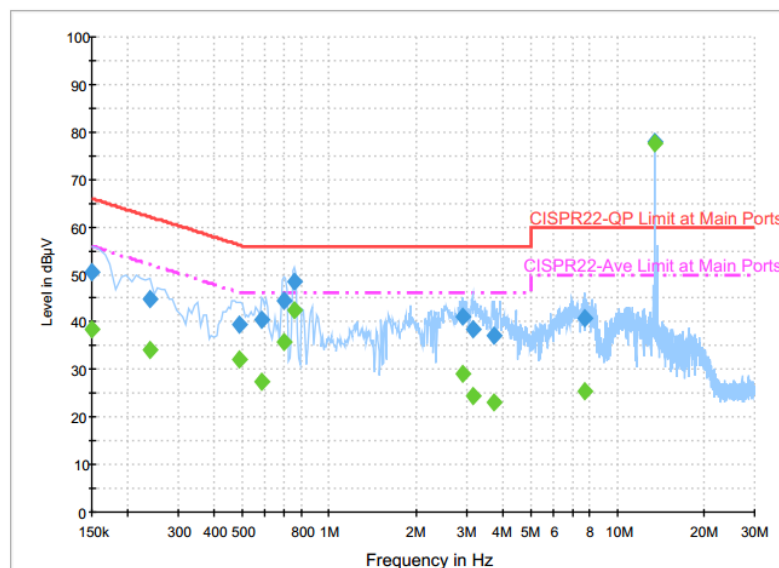
| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 13.558000       | 31.4             | Off    | N    | 19.8       | 28.6        | 60.0         |

**Final Result : Average**

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 13.558000       | 19.5           | Off    | N    | 19.8       | 30.5        | 50.0         |

**<Original Test Result>**

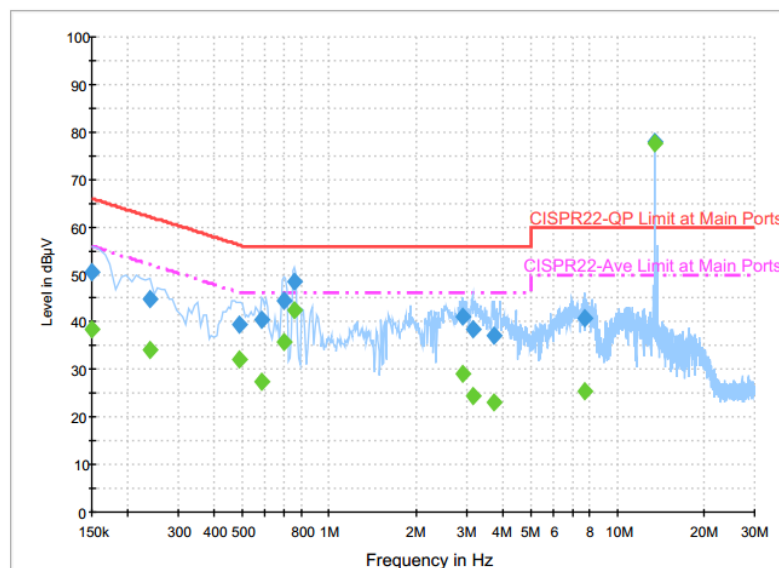
|                        |                                                                                                                                                                    |                            |        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------|
| <b>Test Mode :</b>     | Mode 2                                                                                                                                                             | <b>Temperature :</b>       | 22~24℃ |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                                                                       | <b>Relative Humidity :</b> | 51~53% |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                                                                      | <b>Phase :</b>             | Line   |
| <b>Function Type :</b> | WLAN (5GHz) Link + Bluetooth Link with Earphone 3 + NFC Link + AC Adapter + Snap on USB Cable (Data Link with Notebook) + Copy Data from Notebook to EDA (SD Card) |                            |        |


**Final Result : QuasiPeak**

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000        | 50.5             | Off    | L1   | 19.6       | 15.5        | 66.0         |
| 0.238000        | 44.8             | Off    | L1   | 19.6       | 17.4        | 62.2         |
| 0.486000        | 39.4             | Off    | L1   | 19.6       | 16.8        | 56.2         |
| 0.582000        | 40.6             | Off    | L1   | 19.6       | 15.4        | 56.0         |
| 0.694000        | 44.5             | Off    | L1   | 19.6       | 11.5        | 56.0         |
| 0.758000        | 48.6             | Off    | L1   | 19.6       | 7.4         | 56.0         |
| 2.902000        | 41.3             | Off    | L1   | 19.5       | 14.7        | 56.0         |
| 3.150000        | 38.3             | Off    | L1   | 19.6       | 17.7        | 56.0         |
| 3.750000        | 37.0             | Off    | L1   | 19.7       | 19.0        | 56.0         |
| 7.678000        | 40.9             | Off    | L1   | 19.7       | 19.1        | 60.0         |
| 13.558000       | 78.0             | Off    | L1   | 19.8       | -18.0       | 60.0         |

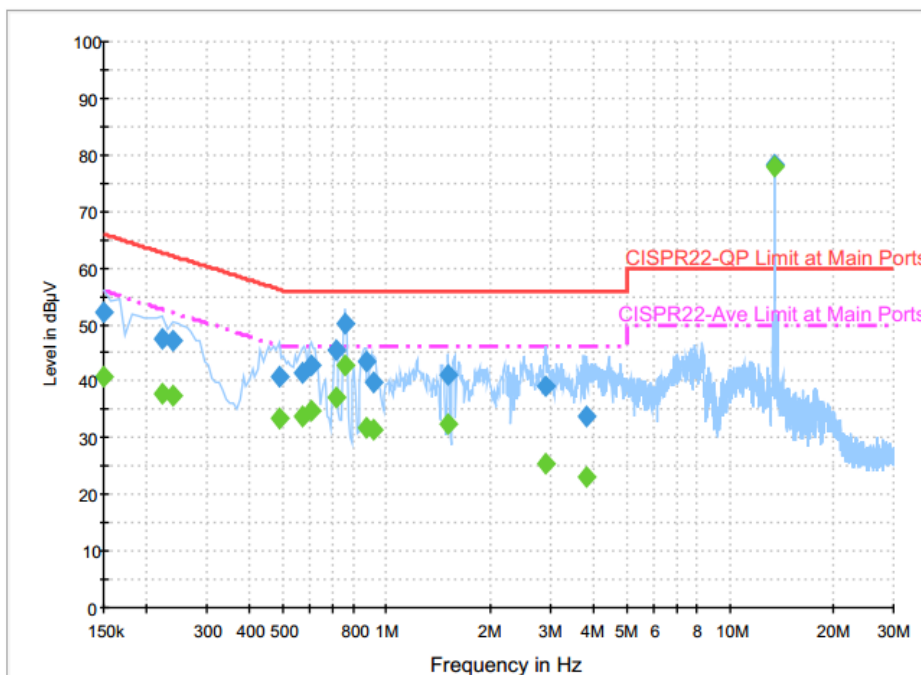


|                        |                                                                                                                                                                    |                            |         |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 2                                                                                                                                                             | <b>Temperature :</b>       | 22~24°C |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                                                                       | <b>Relative Humidity :</b> | 51~53%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                                                                      | <b>Phase :</b>             | Line    |
| <b>Function Type :</b> | WLAN (5GHz) Link + Bluetooth Link with Earphone 3 + NFC Link + AC Adapter + Snap on USB Cable (Data Link with Notebook) + Copy Data from Notebook to EDA (SD Card) |                            |         |

**Final Result : Average**

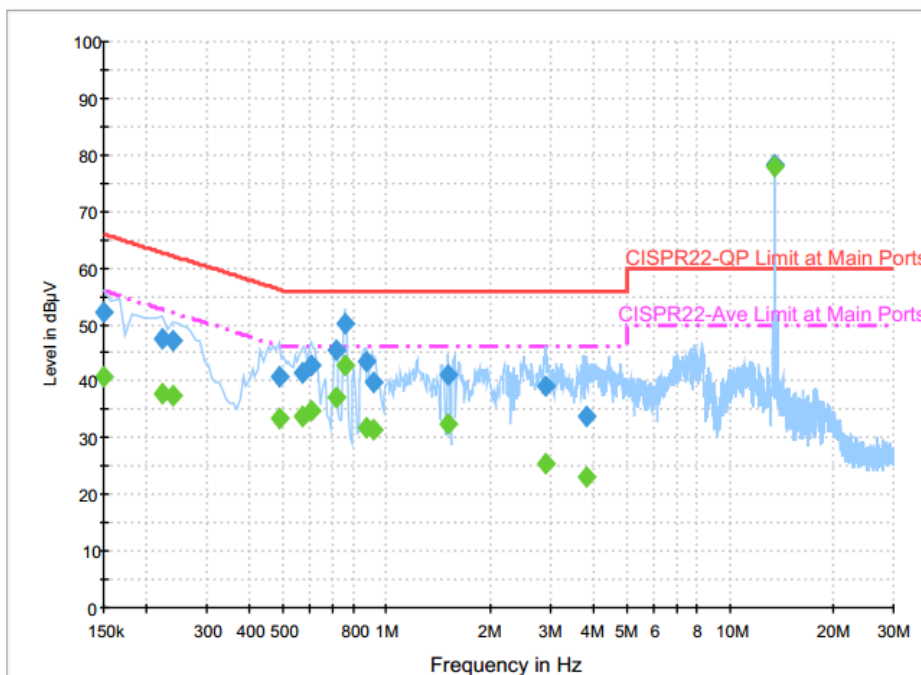
| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 38.4           | Off    | L1   | 19.6       | 17.6        | 56.0         |
| 0.238000        | 34.1           | Off    | L1   | 19.6       | 18.1        | 52.2         |
| 0.486000        | 32.0           | Off    | L1   | 19.6       | 14.2        | 46.2         |
| 0.582000        | 27.5           | Off    | L1   | 19.6       | 18.5        | 46.0         |
| 0.694000        | 35.8           | Off    | L1   | 19.6       | 10.2        | 46.0         |
| 0.758000        | 42.6           | Off    | L1   | 19.6       | 3.4         | 46.0         |
| 2.902000        | 29.1           | Off    | L1   | 19.5       | 16.9        | 46.0         |
| 3.150000        | 24.4           | Off    | L1   | 19.6       | 21.6        | 46.0         |
| 3.750000        | 23.1           | Off    | L1   | 19.7       | 22.9        | 46.0         |
| 7.678000        | 25.4           | Off    | L1   | 19.7       | 24.6        | 50.0         |
| 13.558000       | 77.7           | Off    | L1   | 19.8       | -27.7       | 50.0         |

|                        |                                                                                                                                                                    |                            |         |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 2                                                                                                                                                             | <b>Temperature :</b>       | 22~24°C |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                                                                       | <b>Relative Humidity :</b> | 51~53%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                                                                      | <b>Phase :</b>             | Neutral |
| <b>Function Type :</b> | WLAN (5GHz) Link + Bluetooth Link with Earphone 3 + NFC Link + AC Adapter + Snap on USB Cable (Data Link with Notebook) + Copy Data from Notebook to EDA (SD Card) |                            |         |


**Final Result : QuasiPeak**

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000        | 52.2             | Off    | N    | 19.6       | 13.8        | 66.0         |
| 0.222000        | 47.5             | Off    | N    | 19.6       | 15.2        | 62.7         |
| 0.238000        | 47.2             | Off    | N    | 19.6       | 15.0        | 62.2         |
| 0.486000        | 40.7             | Off    | N    | 19.6       | 15.5        | 56.2         |
| 0.566000        | 41.3             | Off    | N    | 19.6       | 14.7        | 56.0         |
| 0.606000        | 42.9             | Off    | N    | 19.6       | 13.1        | 56.0         |
| 0.710000        | 45.6             | Off    | N    | 19.6       | 10.4        | 56.0         |
| 0.758000        | 50.3             | Off    | N    | 19.6       | 5.7         | 56.0         |
| 0.870000        | 43.6             | Off    | N    | 19.6       | 12.4        | 56.0         |
| 0.918000        | 39.8             | Off    | N    | 19.6       | 16.2        | 56.0         |
| 1.510000        | 41.3             | Off    | N    | 19.6       | 14.7        | 56.0         |
| 2.910000        | 39.0             | Off    | N    | 19.5       | 17.0        | 56.0         |
| 3.838000        | 33.6             | Off    | N    | 19.6       | 22.4        | 56.0         |
| 13.558000       | 78.2             | Off    | N    | 19.8       | -18.2       | 60.0         |

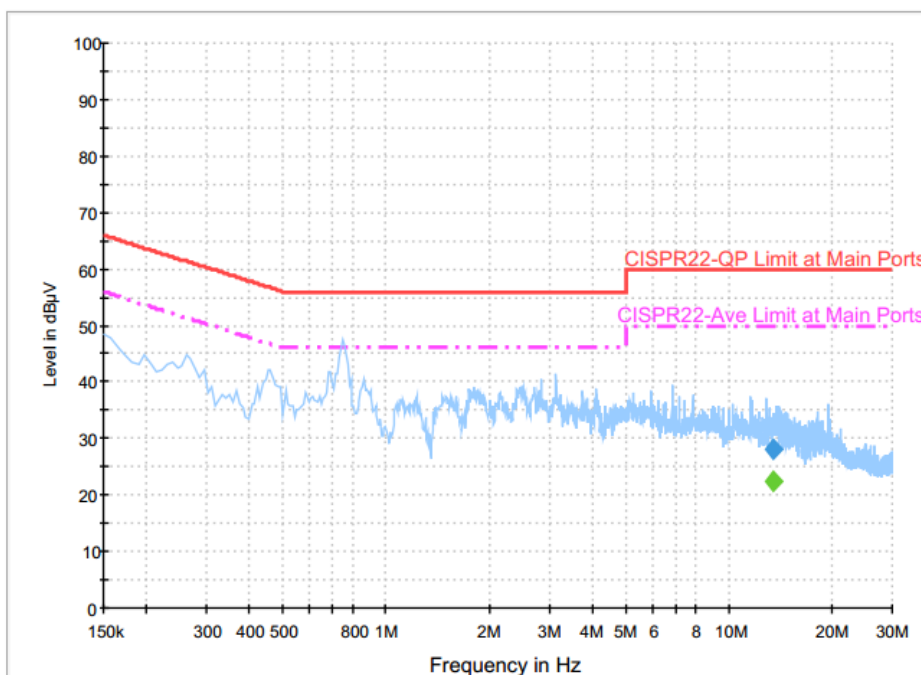
|                        |                                                                                                                                                                    |                            |         |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 2                                                                                                                                                             | <b>Temperature :</b>       | 22~24°C |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                                                                       | <b>Relative Humidity :</b> | 51~53%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                                                                      | <b>Phase :</b>             | Neutral |
| <b>Function Type :</b> | WLAN (5GHz) Link + Bluetooth Link with Earphone 3 + NFC Link + AC Adapter + Snap on USB Cable (Data Link with Notebook) + Copy Data from Notebook to EDA (SD Card) |                            |         |


**Final Result : Average**

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 40.8           | Off    | N    | 19.6       | 15.2        | 56.0         |
| 0.222000        | 37.8           | Off    | N    | 19.6       | 14.9        | 52.7         |
| 0.238000        | 37.4           | Off    | N    | 19.6       | 14.8        | 52.2         |
| 0.486000        | 33.3           | Off    | N    | 19.6       | 12.9        | 46.2         |
| 0.566000        | 33.7           | Off    | N    | 19.6       | 12.3        | 46.0         |
| 0.606000        | 34.7           | Off    | N    | 19.6       | 11.3        | 46.0         |
| 0.710000        | 37.1           | Off    | N    | 19.6       | 8.9         | 46.0         |
| 0.758000        | 42.8           | Off    | N    | 19.6       | 3.2         | 46.0         |
| 0.870000        | 31.7           | Off    | N    | 19.6       | 14.3        | 46.0         |
| 0.918000        | 31.4           | Off    | N    | 19.6       | 14.6        | 46.0         |
| 1.510000        | 32.3           | Off    | N    | 19.6       | 13.7        | 46.0         |
| 2.910000        | 25.3           | Off    | N    | 19.5       | 20.7        | 46.0         |
| 3.838000        | 23.0           | Off    | N    | 19.6       | 23.0        | 46.0         |
| 13.558000       | 78.0           | Off    | N    | 19.8       | -28.0       | 50.0         |

**<Terminal Test Result>**

|                        |                                                                                                                                                                    |                            |        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------|
| <b>Test Mode :</b>     | Mode 2                                                                                                                                                             | <b>Temperature :</b>       | 22~24℃ |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                                                                       | <b>Relative Humidity :</b> | 51~53% |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                                                                      | <b>Phase :</b>             | Line   |
| <b>Function Type :</b> | WLAN (5GHz) Link + Bluetooth Link with Earphone 3 + NFC Link + AC Adapter + Snap on USB Cable (Data Link with Notebook) + Copy Data from Notebook to EDA (SD Card) |                            |        |

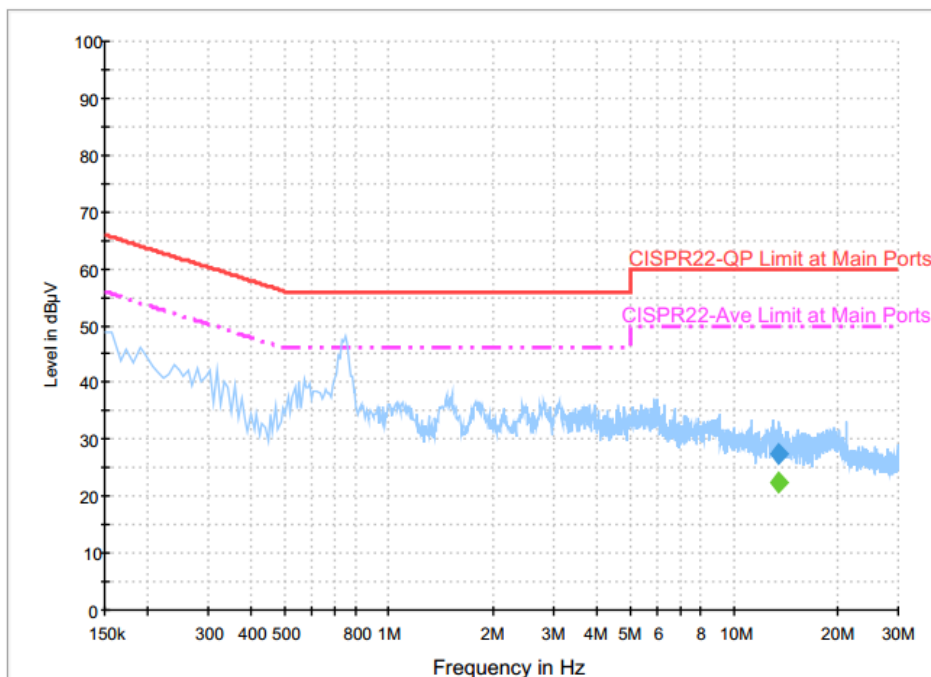

**Final Result : QuasiPeak**

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 13.558000       | 28.2             | Off    | L1   | 19.8       | 31.8        | 60.0         |

**Final Result : Average**

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 13.558000       | 22.5           | Off    | L1   | 19.8       | 27.5        | 50.0         |

|                        |                                                                                                                                                                    |                            |         |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 2                                                                                                                                                             | <b>Temperature :</b>       | 22~24℃  |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                                                                       | <b>Relative Humidity :</b> | 51~53%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                                                                      | <b>Phase :</b>             | Neutral |
| <b>Function Type :</b> | WLAN (5GHz) Link + Bluetooth Link with Earphone 3 + NFC Link + AC Adapter + Snap on USB Cable (Data Link with Notebook) + Copy Data from Notebook to EDA (SD Card) |                            |         |


**Final Result : QuasiPeak**

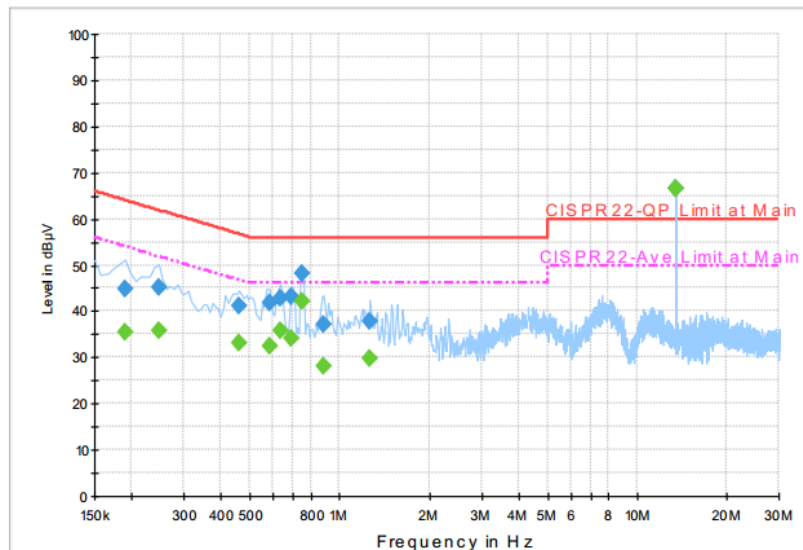
| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 13.558000       | 27.4             | Off    | N    | 19.8       | 32.6        | 60.0         |

**Final Result : Average**

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 13.558000       | 22.4           | Off    | N    | 19.8       | 27.6        | 50.0         |

**<Original Test Result>**

|                        |                                                                                                                                   |                            |         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 3                                                                                                                            | <b>Temperature :</b>       | 22~24°C |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                                      | <b>Relative Humidity :</b> | 51~53%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                                     | <b>Phase :</b>             | Line    |
| <b>Function Type :</b> | WLAN (5GHz) Link + Bluetooth Link + NFC Link + AC Adapter + Charging Only<br>Cable + Earphone 1 with Audio Adapter connect to EUT |                            |         |


**Final Result : QuasiPeak**

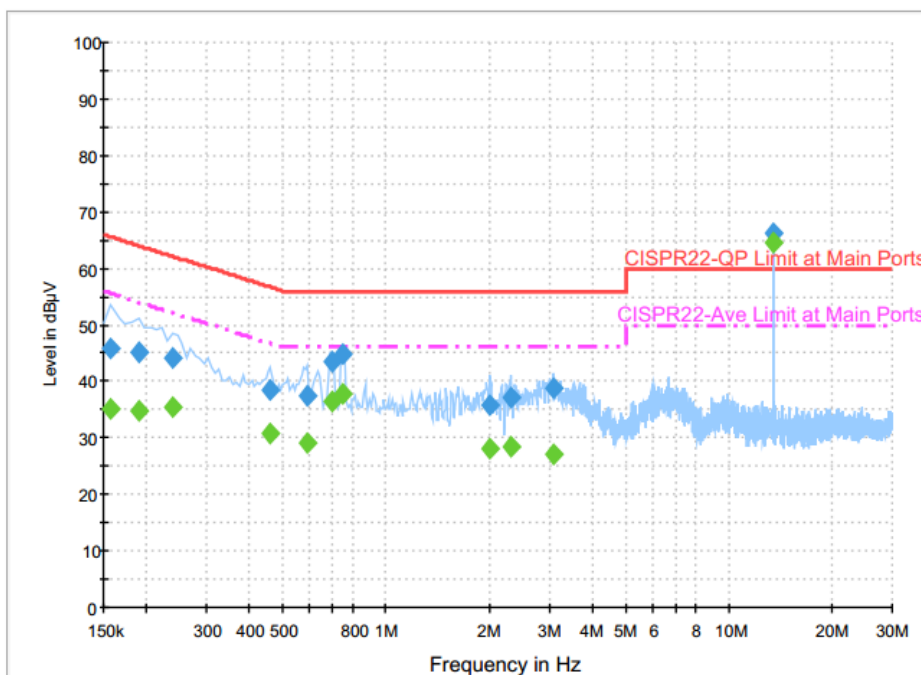
| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.190000        | 44.9             | Off    | L1   | 19.6       | 19.1        | 64.0         |
| 0.246000        | 45.1             | Off    | L1   | 19.6       | 16.8        | 61.9         |
| 0.462000        | 41.0             | Off    | L1   | 19.6       | 15.7        | 56.7         |
| 0.582000        | 42.0             | Off    | L1   | 19.6       | 14.0        | 56.0         |
| 0.630000        | 42.7             | Off    | L1   | 19.6       | 13.3        | 56.0         |
| 0.686000        | 43.2             | Off    | L1   | 19.6       | 12.8        | 56.0         |
| 0.750000        | 48.1             | Off    | L1   | 19.6       | 7.9         | 56.0         |
| 0.886000        | 37.3             | Off    | L1   | 19.6       | 18.7        | 56.0         |
| 1.270000        | 37.7             | Off    | L1   | 19.6       | 18.3        | 56.0         |
| 13.558000       | 66.7             | Off    | L1   | 19.8       | -6.7        | 60.0         |

**Final Result : Average**

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.190000        | 35.5           | Off    | L1   | 19.6       | 18.5        | 54.0         |
| 0.246000        | 35.8           | Off    | L1   | 19.6       | 16.1        | 51.9         |
| 0.462000        | 33.2           | Off    | L1   | 19.6       | 13.5        | 46.7         |
| 0.582000        | 32.4           | Off    | L1   | 19.6       | 13.6        | 46.0         |
| 0.630000        | 35.9           | Off    | L1   | 19.6       | 10.1        | 46.0         |
| 0.686000        | 34.3           | Off    | L1   | 19.6       | 11.7        | 46.0         |
| 0.750000        | 42.2           | Off    | L1   | 19.6       | 3.8         | 46.0         |
| 0.886000        | 28.1           | Off    | L1   | 19.6       | 17.9        | 46.0         |
| 1.270000        | 29.7           | Off    | L1   | 19.6       | 16.3        | 46.0         |
| 13.558000       | 66.7           | Off    | L1   | 19.8       | -16.7       | 50.0         |

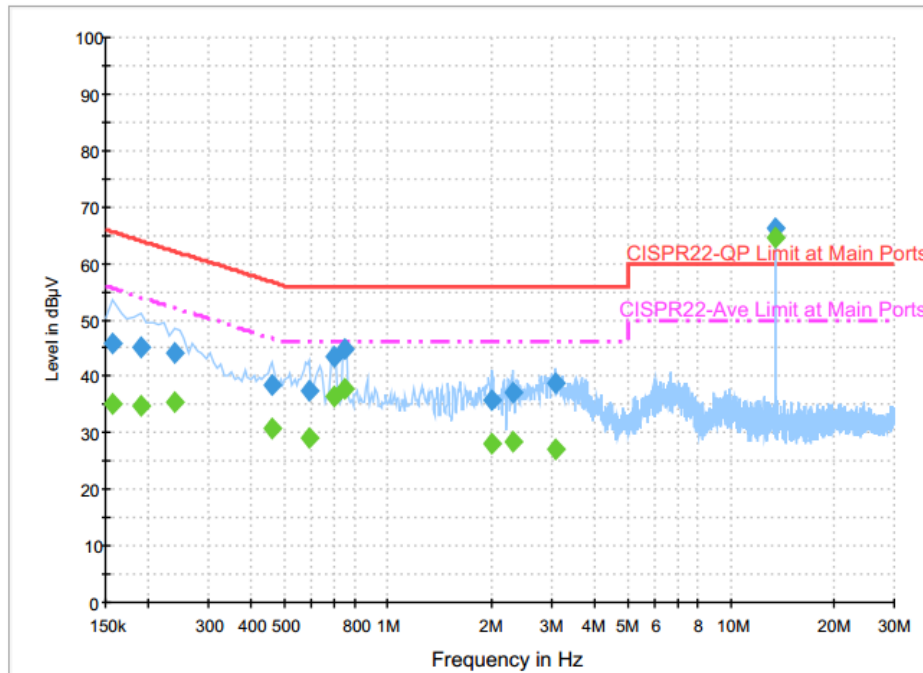


|                 |                                                                                                                                   |                     |         |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Test Mode :     | Mode 3                                                                                                                            | Temperature :       | 22~24°C |
| Test Engineer : | Arthur Hsieh                                                                                                                      | Relative Humidity : | 51~53%  |
| Test Voltage :  | 120Vac / 60Hz                                                                                                                     | Phase :             | Neutral |
| Function Type : | WLAN (5GHz) Link + Bluetooth Link + NFC Link + AC Adapter + Charging Only<br>Cable + Earphone 1 with Audio Adapter connect to EUT |                     |         |

**Final Result : QuasiPeak**

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.158000        | 45.8             | Off    | N    | 19.6       | 19.8        | 65.6         |
| 0.190000        | 45.3             | Off    | N    | 19.6       | 18.7        | 64.0         |
| 0.238000        | 44.2             | Off    | N    | 19.6       | 18.0        | 62.2         |
| 0.462000        | 38.4             | Off    | N    | 19.6       | 18.3        | 56.7         |
| 0.590000        | 37.4             | Off    | N    | 19.6       | 18.6        | 56.0         |
| 0.694000        | 43.6             | Off    | N    | 19.6       | 12.4        | 56.0         |
| 0.750000        | 44.8             | Off    | N    | 19.6       | 11.2        | 56.0         |
| 2.014000        | 35.6             | Off    | N    | 19.6       | 20.4        | 56.0         |
| 2.318000        | 37.1             | Off    | N    | 18.6       | 18.9        | 56.0         |
| 3.078000        | 38.9             | Off    | N    | 19.5       | 17.1        | 56.0         |
| 13.558000       | 66.1             | Off    | N    | 19.8       | -6.1        | 60.0         |

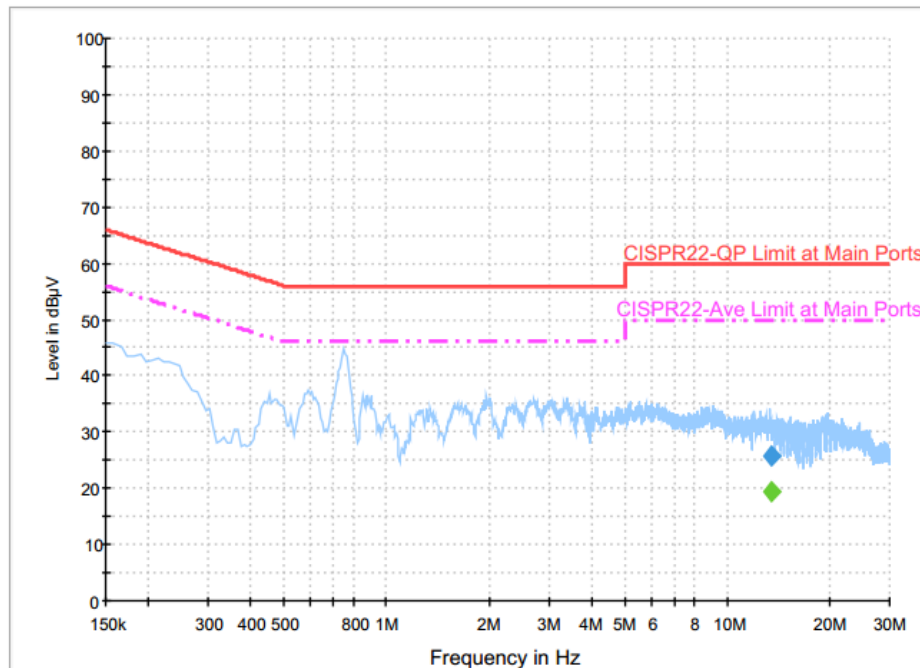
|                        |                                                                                                                                   |                            |         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 3                                                                                                                            | <b>Temperature :</b>       | 22~24°C |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                                      | <b>Relative Humidity :</b> | 51~53%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                                     | <b>Phase :</b>             | Neutral |
| <b>Function Type :</b> | WLAN (5GHz) Link + Bluetooth Link + NFC Link + AC Adapter + Charging Only<br>Cable + Earphone 1 with Audio Adapter connect to EUT |                            |         |


**Final Result : Average**

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.158000        | 35.2           | Off    | N    | 19.6       | 20.4        | 55.6         |
| 0.190000        | 34.8           | Off    | N    | 19.6       | 19.2        | 54.0         |
| 0.238000        | 35.6           | Off    | N    | 19.6       | 16.6        | 52.2         |
| 0.462000        | 30.8           | Off    | N    | 19.6       | 15.9        | 46.7         |
| 0.590000        | 29.2           | Off    | N    | 19.6       | 16.8        | 46.0         |
| 0.694000        | 36.5           | Off    | N    | 19.6       | 9.5         | 46.0         |
| 0.750000        | 37.8           | Off    | N    | 19.6       | 8.2         | 46.0         |
| 2.014000        | 28.0           | Off    | N    | 19.6       | 18.0        | 46.0         |
| 2.318000        | 28.4           | Off    | N    | 18.6       | 17.6        | 46.0         |
| 3.078000        | 27.2           | Off    | N    | 19.5       | 18.8        | 46.0         |
| 13.558000       | 64.7           | Off    | N    | 19.8       | -14.7       | 50.0         |

**<Terminal Test Result>**

|                        |                                                                                                                                |                            |         |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 3                                                                                                                         | <b>Temperature :</b>       | 22~24°C |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                                   | <b>Relative Humidity :</b> | 51~53%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                                  | <b>Phase :</b>             | Line    |
| <b>Function Type :</b> | WLAN (5GHz) Link + Bluetooth Link + NFC Link + AC Adapter + Charging Only Cable + Earphone 1 with Audio Adapter connect to EUT |                            |         |


**Final Result : QuasiPeak**

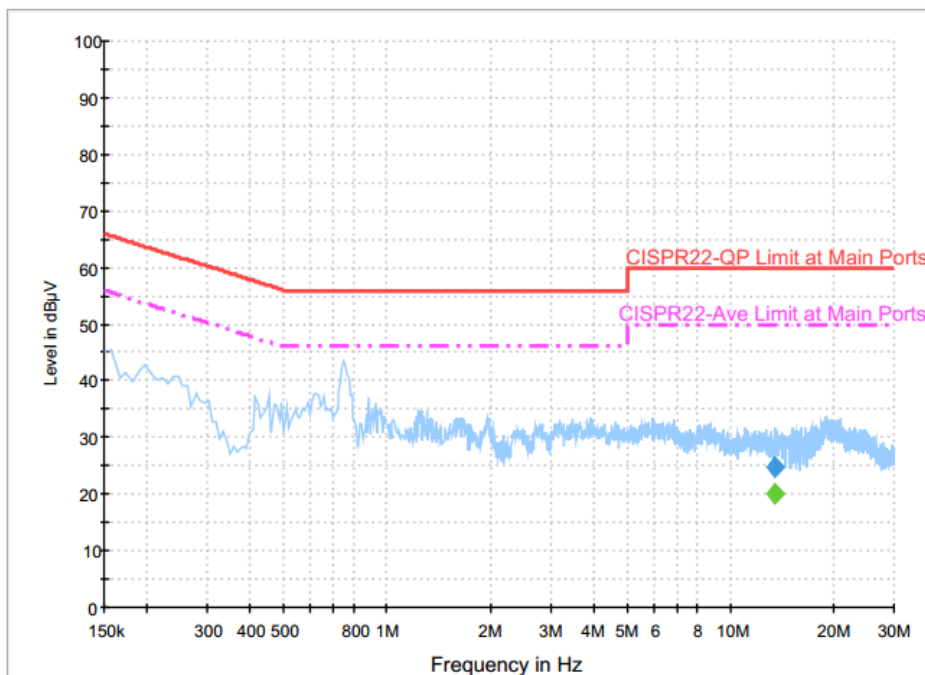
| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 13.558000       | 25.8             | Off    | L1   | 19.8       | 34.2        | 60.0         |

**Final Result : Average**

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 13.558000       | 19.5           | Off    | L1   | 19.8       | 30.5        | 50.0         |



|                 |                                                                                                                                   |                     |         |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Test Mode :     | Mode 3                                                                                                                            | Temperature :       | 22~24°C |
| Test Engineer : | Arthur Hsieh                                                                                                                      | Relative Humidity : | 51~53%  |
| Test Voltage :  | 120Vac / 60Hz                                                                                                                     | Phase :             | Neutral |
| Function Type : | WLAN (5GHz) Link + Bluetooth Link + NFC Link + AC Adapter + Charging Only<br>Cable + Earphone 1 with Audio Adapter connect to EUT |                     |         |

**Final Result : QuasiPeak**

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 13.558000       | 24.7             | Off    | N    | 19.8       | 35.3        | 60.0         |

**Final Result : Average**

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 13.558000       | 19.9           | Off    | N    | 19.8       | 30.1        | 50.0         |

## 3.6 Frequency Stability Measurement

### 3.6.1 Limit of Frequency Stability

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

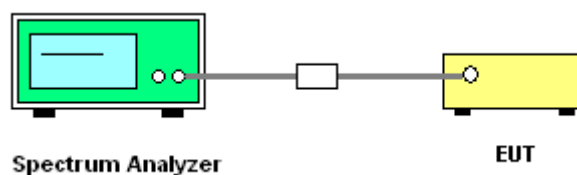
### 3.6.2 Measuring Instruments

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

### 3.6.3 Test Procedures

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

### 3.6.4 Test Setup



### 3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.

The frequency band 5180-5240MHz which was verified by testing against other standard is less than 20 ppm which is sufficient to maintain the signal within the 5150-5250MHz band.



## **3.7 Automatically Discontinue Transmission**

### **3.7.1 Limit of Automatically Discontinue Transmission**

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

### **3.7.2 Measuring Instruments**

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

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

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

### 3.8 Antenna Requirements

#### 3.8.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

#### 3.8.3 Antenna Gain

##### CDD modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain =  $10 \log(N_{ANT}/N_{SS}=1)$  dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ .

Directional gain may be calculated by using the formulas applicable to equal gain antennas with  $G_{ANT}$  set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain  $G_{ANT}$  is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

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

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

|                 | Ant 1 | Ant 2 | for   | for   | Limit     | Limit     |
|-----------------|-------|-------|-------|-------|-----------|-----------|
|                 | (dBi) | (dBi) | Power | PSD   | Reduction | Reduction |
|                 | (dBi) | (dBi) | (dBi) | (dBi) | (dB)      | (dB)      |
| <b>Band I</b>   | 4.90  | 1.60  | 4.90  | 6.42  | 0.00      | 0.42      |
| <b>Band II</b>  | 4.90  | 2.20  | 4.90  | 6.66  | 0.00      | 0.66      |
| <b>Band III</b> | 4.90  | 3.30  | 4.90  | 7.15  | 0.00      | 1.15      |

*Power limit reduction = Composite gain – 6dBi, ( min = 0 )*

*PSD limit reduction = Composite gain + PSD Array gain – 6dBi, ( min = 0 )*

**TXBF modes**

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

where

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

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

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

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

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F2)e)ii) of KDB 662911 D01 v02r01.

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

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

|                 |                |                | DG<br>for<br>Power | DG<br>for<br>PSD | Power<br>Limit<br>Reduction | PSD<br>Limit<br>Reduction |
|-----------------|----------------|----------------|--------------------|------------------|-----------------------------|---------------------------|
|                 | Ant 1<br>(dBi) | Ant 2<br>(dBi) | (dBi)              | (dBi)            | (dB)                        | (dB)                      |
| <b>Band I</b>   | 4.90           | 1.60           | 6.42               | 6.42             | 0.42                        | 0.42                      |
| <b>Band II</b>  | 4.90           | 2.20           | 6.66               | 6.66             | 0.66                        | 0.66                      |
| <b>Band III</b> | 4.90           | 3.30           | 7.15               | 7.15             | 1.15                        | 1.15                      |

Power Limit Reduction =  $DG(Power) - 6dBi$ , ( min = 0 )

PSD Limit Reduction =  $DG(PSD) - 6dBi$ , ( min = 0 )



## 4 List of Measuring Equipment

| Instrument                | Manufacturer    | Model No.                  | Serial No.      | Characteristics   | Calibration Date | Test Date                     | Due Date      | Remark                |
|---------------------------|-----------------|----------------------------|-----------------|-------------------|------------------|-------------------------------|---------------|-----------------------|
| Power Meter               | Anritsu         | ML2495A                    | 1132003         | 300MHz~40GHz      | Aug. 04, 2016    | Aug. 18, 2016 ~ Sep. 16, 2016 | Aug. 03, 2017 | Conducted (TH05-HY)   |
| Power Sensor              | Anritsu         | MA2411B                    | 1126017         | 300MHz~40GHz      | Aug. 04, 2016    | Aug. 18, 2016 ~ Sep. 16, 2016 | Aug. 03, 2017 | Conducted (TH05-HY)   |
| Spectrum Analyzer         | Rohde & Schwarz | FSP40                      | 100057          | 9kHz-40GHz        | Nov. 23, 2015    | Aug. 18, 2016 ~ Sep. 16, 2016 | Nov. 22, 2016 | Conducted (TH05-HY)   |
| Temperature Chamber       | ESPEC           | SU-241                     | 92003713        | -30℃ ~95℃         | Jun. 06, 2016    | Aug. 18, 2016 ~ Sep. 16, 2016 | Jun. 05, 2017 | Conducted (TH05-HY)   |
| Power Sensor              | DARE            | RadiPower                  | 15I00041SN O09  | 10MHz~6GHz        | May. 03, 2016    | Sep. 10, 2016 ~ Sep. 16, 2016 | May. 02, 2017 | Conducted (TH05-HY)   |
| Power Sensor              | DARE            | RadiPower                  | 15I00041SN O10  | 10MHz~6GHz        | May. 03, 2016    | Sep. 10, 2016 ~ Sep. 16, 2016 | May. 02, 2017 | Conducted (TH05-HY)   |
| Temperature Chamber       | ESPEC           | SH-641                     | 92013720        | -40℃ ~90℃         | Sep. 01, 2016    | Sep. 10, 2016 ~ Sep. 16, 2016 | Aug. 31, 2017 | Conducted (TH05-HY)   |
| Programmable Power Supply | GW Instek       | PSS-2005                   | EL890094        | 1V~20V<br>0.5A~5A | Oct. 12, 2015    | Sep. 10, 2016 ~ Sep. 16, 2016 | Oct. 11, 2016 | Conducted (TH05-HY)   |
| AC Power Source           | ChainTek        | APC-1000W                  | N/A             | N/A               | N/A              | Sep. 06, 2016 ~ Sep. 20, 2016 | N/A           | Conduction (CO05-HY)  |
| EMI Test Receiver         | Rohde & Schwarz | ESCI 7                     | 100724          | 9kHz~7GHz         | Aug. 30, 2016    | Sep. 06, 2016 ~ Sep. 20, 2016 | Aug. 29, 2017 | Conduction (CO05-HY)  |
| Pulse Limiter             | Rohde & Schwarz | ESH3-Z2                    | 100851          | N/A               | Jan. 08, 2016    | Sep. 06, 2016 ~ Sep. 20, 2016 | Jan. 07, 2017 | Conduction (CO05-HY)  |
| Bilog Antenna             | TESEQ           | CBL 6111D                  | 35419           | 30MHz to 1GHz     | Jan. 13, 2016    | Aug. 23, 2016 ~ Sep. 09, 2016 | Jan. 12, 2017 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO            | 3117                       | 00075962        | 1GHz ~ 18GHz      | Aug. 19, 2016    | Aug. 23, 2016 ~ Sep. 09, 2016 | Aug. 18, 2017 | Radiation (03CH07-HY) |
| EMI Test Receiver         | Keysight        | N9038A(MXE)                | MY54130085      | 20Hz ~ 8.4GHz     | Nov. 04, 2015    | Aug. 23, 2016 ~ Sep. 09, 2016 | Nov. 03, 2016 | Radiation (03CH07-HY) |
| Loop Antenna              | Rohde & Schwarz | HFH2-Z2                    | 100315          | 9 kHz~30 MHz      | Sep. 02, 2015    | Aug. 23, 2016 ~ Sep. 09, 2016 | Sep. 01, 2017 | Radiation (03CH07-HY) |
| Preamplifier              | MITEQ           | AMF-7D-0010<br>1800-30-10P | 1590075         | 1GHz ~ 18GHz      | Apr. 15, 2016    | Aug. 23, 2016 ~ Sep. 09, 2016 | Apr. 14, 2017 | Radiation (03CH07-HY) |
| Preamplifier              | COM-POWER       | PA-103A                    | 161241          | 10MHz-1GHz        | Mar. 18, 2016    | Aug. 23, 2016 ~ Sep. 09, 2016 | Mar. 17, 2017 | Radiation (03CH07-HY) |
| Preamplifier              | Agilent         | 8449B                      | 3008A02362      | 1GHz~ 26.5GHz     | Oct. 19, 2015    | Aug. 23, 2016 ~ Sep. 09, 2016 | Oct. 18, 2016 | Radiation (03CH07-HY) |
| Spectrum Analyzer         | Agilent         | N9010A                     | MY53470118      | 10Hz~44GHz        | Feb. 27, 2016    | Aug. 23, 2016 ~ Sep. 09, 2016 | Feb. 26, 2017 | Radiation (03CH07-HY) |
| Antenna Mast              | Max-Full        | MFA520BS                   | N/A             | 1m~4m             | N/A              | Aug. 23, 2016 ~ Sep. 09, 2016 | N/A           | Radiation (03CH07-HY) |
| Turn Table                | ChainTek        | Chaintek 3000              | N/A             | 0~360 Degree      | N/A              | Aug. 23, 2016 ~ Sep. 09, 2016 | N/A           | Radiation (03CH07-HY) |
| Loop Cable                | Rohde & Schwarz | N/A                        | N/A             | 9KHz~30MHz        | Dec. 03, 2015    | Aug. 23, 2016 ~ Sep. 09, 2016 | Dec. 02, 2016 | Radiation (03CH07-HY) |
| Preamplifier              | MITEQ           | JS44-1800400<br>0-33-8P    | 1840917         | 18GHz ~ 40GHz     | Jun. 14, 2016    | Aug. 23, 2016 ~ Sep. 09, 2016 | Jun. 13, 2017 | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna      | SCHWARZBECK     | BBHA 9170                  | BBHA917058<br>4 | 18GHz- 40GHz      | Nov. 02, 2015    | Aug. 23, 2016 ~ Sep. 09, 2016 | Nov. 01, 2016 | Radiation (03CH07-HY) |



## 5 Uncertainty of Evaluation

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

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 2.70 |
|----------------------------------------------------------------------------|------|

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

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.70 |
|----------------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18 GHz)

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

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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



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

**<CDD Modes>**

Report Number : FR672834E

|                |                       |                    |       |    |
|----------------|-----------------------|--------------------|-------|----|
| Test Engineer: | Luffy Lin / Kai Liao  | Temperature:       | 21~25 | °C |
| Test Date:     | 2016/08/18~2016/09/16 | Relative Humidity: | 51~54 | %  |

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

| Band I |           |     |     |             |                     |       |                       |       |                                    |       |                                   |       |      |
|--------|-----------|-----|-----|-------------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|------|
| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | Note |
|        |           |     |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 18.40               | 18.40 | 22.74                 | 22.85 | -                                  |       | 22.65                             | 22.65 |      |
| 11a    | 6Mbps     | 1   | 44  | 5220        | 18.20               | 18.20 | 23.06                 | 26.87 | -                                  |       | 22.60                             | 22.60 |      |
| 11a    | 6Mbps     | 1   | 48  | 5240        | 17.45               | 17.60 | 25.92                 | 27.17 | -                                  |       | 22.42                             | 22.46 |      |
| 11a    | 6Mbps     | 2   | 36  | 5180        | 18.30               | 18.30 | 22.74                 | 22.77 | -                                  |       | 22.62                             |       |      |
| 11a    | 6Mbps     | 2   | 44  | 5220        | 18.50               | 18.45 | 26.82                 | 27.02 | -                                  |       | 22.66                             |       |      |
| 11a    | 6Mbps     | 2   | 48  | 5240        | 17.50               | 17.50 | 27.11                 | 27.69 | -                                  |       | 22.43                             |       |      |
| VHT20  | MCS0      | 2   | 36  | 5180        | 18.95               | 19.10 | 23.28                 | 23.04 | -                                  |       | 22.78                             |       |      |
| VHT20  | MCS0      | 2   | 44  | 5220        | 19.10               | 18.95 | 28.53                 | 28.90 | -                                  |       | 22.78                             |       |      |
| VHT20  | MCS0      | 2   | 48  | 5240        | 18.25               | 18.35 | 29.98                 | 32.88 | -                                  |       | 22.61                             |       |      |
| VHT40  | MCS0      | 2   | 38  | 5190        | 36.80               | 36.70 | 41.44                 | 40.91 | -                                  |       | 23.01                             |       |      |
| VHT40  | MCS0      | 2   | 46  | 5230        | 36.80               | 37.10 | 41.76                 | 64.64 | -                                  |       | 23.01                             |       |      |
| VHT80  | MCS0      | 2   | 42  | 5210        | 75.96               | 75.84 | 82.08                 | 81.84 | -                                  |       | 23.01                             |       |      |

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

| FCC Band I |           |     |     |             |                  |       |                               |       |       |                                 |       |          |       |           |
|------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|-----------|
| Mod.       | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | Pass/Fail |
|            |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |           |
| 11a        | 6Mbps     | 1   | 36  | 5180        | 0.32             | 0.32  | 15.81                         | 16.22 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| 11a        | 6Mbps     | 1   | 44  | 5220        | 0.32             | 0.32  | 15.91                         | 17.61 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| 11a        | 6Mbps     | 1   | 48  | 5240        | 0.32             | 0.32  | 15.98                         | 17.60 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| HT20       | MCS0      | 1   | 36  | 5180        | 0.32             | 0.32  | 14.62                         | 16.51 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| HT20       | MCS0      | 1   | 44  | 5220        | 0.32             | 0.32  | 15.82                         | 17.54 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| HT20       | MCS0      | 1   | 48  | 5240        | 0.32             | 0.32  | 15.67                         | 17.38 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| HT40       | MCS0      | 1   | 38  | 5190        | 0.09             | 0.09  | 11.99                         | 13.70 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| HT40       | MCS0      | 1   | 46  | 5230        | 0.09             | 0.09  | 15.15                         | 16.86 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| VHT20      | MCS0      | 1   | 36  | 5180        | 0.32             | 0.35  | 14.64                         | 16.57 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| VHT20      | MCS0      | 1   | 44  | 5220        | 0.32             | 0.35  | 15.90                         | 17.67 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| VHT20      | MCS0      | 1   | 48  | 5240        | 0.32             | 0.35  | 15.69                         | 17.62 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| VHT40      | MCS0      | 1   | 38  | 5190        | 0.09             | 0.08  | 12.10                         | 13.76 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| VHT40      | MCS0      | 1   | 46  | 5230        | 0.09             | 0.08  | 15.33                         | 16.93 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| VHT80      | MCS0      | 1   | 42  | 5210        | 0.18             | 0.22  | 12.08                         | 14.03 |       | 24.00                           | 24.00 | 4.90     | 1.60  | Pass      |
| 11a        | 6Mbps     | 2   | 36  | 5180        | 0.32             | 0.32  | 14.47                         | 16.24 | 18.46 | 24.00                           |       | 4.90     |       | Pass      |
| 11a        | 6Mbps     | 2   | 44  | 5220        | 0.32             | 0.32  | 15.95                         | 17.64 | 19.89 | 24.00                           |       | 4.90     |       | Pass      |
| 11a        | 6Mbps     | 2   | 48  | 5240        | 0.32             | 0.32  | 15.81                         | 17.68 | 19.86 | 24.00                           |       | 4.90     |       | Pass      |
| HT20       | MCS0      | 2   | 36  | 5180        | 0.32             | 0.32  | 14.70                         | 16.60 | 18.77 | 24.00                           |       | 4.90     |       | Pass      |
| HT20       | MCS0      | 2   | 44  | 5220        | 0.32             | 0.32  | 15.90                         | 17.67 | 19.89 | 24.00                           |       | 4.90     |       | Pass      |
| HT20       | MCS0      | 2   | 48  | 5240        | 0.32             | 0.32  | 15.70                         | 17.61 | 19.77 | 24.00                           |       | 4.90     |       | Pass      |
| HT40       | MCS0      | 2   | 38  | 5190        | 0.09             | 0.09  | 12.00                         | 13.83 | 16.02 | 24.00                           |       | 4.90     |       | Pass      |
| HT40       | MCS0      | 2   | 46  | 5230        | 0.09             | 0.09  | 15.18                         | 16.97 | 19.18 | 24.00                           |       | 4.90     |       | Pass      |
| VHT20      | MCS0      | 2   | 36  | 5180        | 0.32             | 0.32  | 14.73                         | 16.62 | 18.79 | 24.00                           |       | 4.90     |       | Pass      |
| VHT20      | MCS0      | 2   | 44  | 5220        | 0.32             | 0.32  | 15.92                         | 17.70 | 19.91 | 24.00                           |       | 4.90     |       | Pass      |
| VHT20      | MCS0      | 2   | 48  | 5240        | 0.32             | 0.32  | 15.75                         | 17.63 | 19.80 | 24.00                           |       | 4.90     |       | Pass      |
| VHT40      | MCS0      | 2   | 38  | 5190        | 0.09             | 0.09  | 12.13                         | 13.88 | 16.10 | 24.00                           |       | 4.90     |       | Pass      |
| VHT40      | MCS0      | 2   | 46  | 5230        | 0.09             | 0.09  | 15.35                         | 17.12 | 19.33 | 24.00                           |       | 4.90     |       | Pass      |
| VHT80      | MCS0      | 2   | 42  | 5210        | 0.18             | 0.18  | 12.12                         | 14.15 | 16.26 | 24.00                           |       | 4.90     |       | Pass      |

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

| FCC Band I |           |     |     |             |                  |       |                                 |       |       |                             |       |          |       |            |
|------------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------|
| Mod.       | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|            |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |            |
| 11a        | 6Mbps     | 1   | 36  | 5180        | 0.32             | 0.32  | 3.10                            | 5.73  |       | 11.00                       | 11.00 | 4.90     | 1.60  | Pass       |
| 11a        | 6Mbps     | 1   | 44  | 5220        | 0.32             | 0.32  | 4.04                            | 5.62  |       | 11.00                       | 11.00 | 4.90     | 1.60  | Pass       |
| 11a        | 6Mbps     | 1   | 48  | 5240        | 0.32             | 0.32  | 4.44                            | 6.55  |       | 11.00                       | 11.00 | 4.90     | 1.60  | Pass       |
| 11a        | 6Mbps     | 2   | 36  | 5180        | 0.32             | 0.32  |                                 |       | 6.89  | 10.58                       |       | 6.42     |       | Pass       |
| 11a        | 6Mbps     | 2   | 44  | 5220        | 0.32             | 0.32  |                                 |       | 7.98  | 10.58                       |       | 6.42     |       | Pass       |
| 11a        | 6Mbps     | 2   | 48  | 5240        | 0.32             | 0.32  |                                 |       | 7.88  | 10.58                       |       | 6.42     |       | Pass       |
| VHT20      | MCS0      | 2   | 36  | 5180        | 0.32             | 0.32  |                                 |       | 6.66  | 10.58                       |       | 6.42     |       | Pass       |
| VHT20      | MCS0      | 2   | 44  | 5220        | 0.32             | 0.32  |                                 |       | 7.70  | 10.58                       |       | 6.42     |       | Pass       |
| VHT20      | MCS0      | 2   | 48  | 5240        | 0.32             | 0.32  |                                 |       | 7.62  | 10.58                       |       | 6.42     |       | Pass       |
| VHT40      | MCS0      | 2   | 38  | 5190        | 0.09             | 0.09  |                                 |       | 1.22  | 10.58                       |       | 6.42     |       | Pass       |
| VHT40      | MCS0      | 2   | 46  | 5230        | 0.09             | 0.09  |                                 |       | 4.05  | 10.58                       |       | 6.42     |       | Pass       |
| VHT80      | MCS0      | 2   | 42  | 5210        | 0.18             | 0.18  |                                 |       | -2.14 | 10.58                       |       | 6.42     |       | Pass       |



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

| Band II |           |     |     |             |                     |       |                       |       |                                    |       |                                   |       |                                      |       |      |
|---------|-----------|-----|-----|-------------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       | Note |
|         |           |     |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 |      |
| 11a     | 6Mbps     | 1   | 52  | 5260        | 17.40               | 17.40 | 25.68                 | 26.23 | 23.41                              | 23.41 | 29.41                             | 29.41 | 23.98                                | 23.98 |      |
| 11a     | 6Mbps     | 1   | 60  | 5300        | 18.45               | 18.45 | 27.16                 | 27.04 | 23.66                              | 23.66 | 29.66                             | 29.66 | 23.98                                | 23.98 |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 18.45               | 18.35 | 22.82                 | 23.07 | 23.66                              | 23.64 | 29.66                             | 29.64 | 23.98                                | 23.98 |      |
| 11a     | 6Mbps     | 2   | 52  | 5260        | 17.55               | 17.55 | 27.06                 | 30.49 | 23.44                              |       | 29.44                             |       | 23.98                                |       |      |
| 11a     | 6Mbps     | 2   | 60  | 5300        | 18.25               | 18.30 | 27.31                 | 27.35 | 23.61                              |       | 29.61                             |       | 23.98                                |       |      |
| 11a     | 6Mbps     | 2   | 64  | 5320        | 18.50               | 18.35 | 23.01                 | 22.85 | 23.64                              |       | 29.64                             |       | 23.98                                |       |      |
| VHT20   | MCS0      | 2   | 52  | 5260        | 18.15               | 18.40 | 28.40                 | 38.80 | 23.59                              |       | 29.59                             |       | 23.98                                |       |      |
| VHT20   | MCS0      | 2   | 60  | 5300        | 19.20               | 19.20 | 23.28                 | 29.44 | 23.83                              |       | 29.83                             |       | 23.98                                |       |      |
| VHT20   | MCS0      | 2   | 64  | 5320        | 19.20               | 19.20 | 23.03                 | 23.00 | 23.83                              |       | 29.83                             |       | 23.98                                |       |      |
| VHT40   | MCS0      | 2   | 54  | 5270        | 36.80               | 36.80 | 43.87                 | 42.88 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT40   | MCS0      | 2   | 62  | 5310        | 36.60               | 36.80 | 41.12                 | 40.96 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT80   | MCS0      | 2   | 58  | 5290        | 75.96               | 76.08 | 82.40                 | 81.84 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |

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

| FCC Band II |           |     |     |             |                  |       |                               |       |       |                                 |       |          |       |                        |           |
|-------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.        | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power Limit (dBm) | Pass/Fail |
|             |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |                        |           |
| 11a         | 6Mbps     | 1   | 52  | 5260        | 0.32             | 0.32  | 15.93                         | 17.55 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| 11a         | 6Mbps     | 1   | 60  | 5300        | 0.32             | 0.32  | 16.09                         | 17.56 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| 11a         | 6Mbps     | 1   | 64  | 5320        | 0.32             | 0.32  | 15.98                         | 16.43 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| HT20        | MCS0      | 1   | 52  | 5260        | 0.32             | 0.32  | 15.65                         | 17.33 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| HT20        | MCS0      | 1   | 60  | 5300        | 0.32             | 0.32  | 15.80                         | 17.58 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| HT20        | MCS0      | 1   | 64  | 5320        | 0.32             | 0.32  | 14.70                         | 16.40 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| HT40        | MCS0      | 1   | 54  | 5270        | 0.09             | 0.09  | 15.44                         | 17.06 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| HT40        | MCS0      | 1   | 62  | 5310        | 0.09             | 0.09  | 11.94                         | 13.45 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| VHT20       | MCS0      | 1   | 52  | 5260        | 0.32             | 0.35  | 15.70                         | 17.46 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| VHT20       | MCS0      | 1   | 60  | 5300        | 0.32             | 0.35  | 15.83                         | 17.63 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| VHT20       | MCS0      | 1   | 64  | 5320        | 0.32             | 0.35  | 14.73                         | 16.50 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| VHT40       | MCS0      | 1   | 54  | 5270        | 0.09             | 0.08  | 15.47                         | 17.08 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| VHT40       | MCS0      | 1   | 62  | 5310        | 0.09             | 0.08  | 12.00                         | 13.61 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| VHT80       | MCS0      | 1   | 58  | 5290        | 0.18             | 0.22  | 11.69                         | 13.14 |       | 23.98                           | 23.98 | 4.90     | 2.20  | 30                     | Pass      |
| 11a         | 6Mbps     | 2   | 52  | 5260        | 0.32             | 0.32  | 15.83                         | 17.74 | 19.90 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| 11a         | 6Mbps     | 2   | 60  | 5300        | 0.32             | 0.32  | 15.88                         | 17.73 | 19.91 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| 11a         | 6Mbps     | 2   | 64  | 5320        | 0.32             | 0.32  | 15.35                         | 16.90 | 19.21 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| HT20        | MCS0      | 2   | 52  | 5260        | 0.32             | 0.32  | 15.69                         | 17.52 | 19.71 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| HT20        | MCS0      | 2   | 60  | 5300        | 0.32             | 0.32  | 15.82                         | 17.68 | 19.86 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| HT20        | MCS0      | 2   | 64  | 5320        | 0.32             | 0.32  | 14.73                         | 16.52 | 18.73 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| HT40        | MCS0      | 2   | 54  | 5270        | 0.09             | 0.09  | 15.47                         | 17.16 | 19.41 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| HT40        | MCS0      | 2   | 62  | 5310        | 0.09             | 0.09  | 11.98                         | 13.64 | 15.90 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT20       | MCS0      | 2   | 52  | 5260        | 0.32             | 0.32  | 15.70                         | 17.54 | 19.73 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT20       | MCS0      | 2   | 60  | 5300        | 0.32             | 0.32  | 15.84                         | 17.73 | 19.90 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT20       | MCS0      | 2   | 64  | 5320        | 0.32             | 0.32  | 14.78                         | 16.60 | 18.80 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT40       | MCS0      | 2   | 54  | 5270        | 0.09             | 0.09  | 15.51                         | 17.29 | 19.50 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT40       | MCS0      | 2   | 62  | 5310        | 0.09             | 0.09  | 12.04                         | 13.70 | 15.96 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT80       | MCS0      | 2   | 58  | 5290        | 0.18             | 0.18  | 11.71                         | 13.29 | 15.58 | 23.98                           |       | 4.90     |       | 30                     | Pass      |

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

| Band II |           |     |     |             |                  |       |                                 |       |       |                             |       |          |       |            |
|---------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|         |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |            |
| 11a     | 6Mbps     | 1   | 52  | 5260        | 0.32             | 0.32  | 4.36                            | 6.21  |       | 11.00                       | 11.00 | 4.90     | 2.20  | Pass       |
| 11a     | 6Mbps     | 1   | 60  | 5300        | 0.32             | 0.32  | 4.54                            | 5.90  |       | 11.00                       | 11.00 | 4.90     | 2.20  | Pass       |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 0.32             | 0.32  | 3.56                            | 4.98  |       | 11.00                       | 11.00 | 4.90     | 2.20  | Pass       |
| 11a     | 6Mbps     | 2   | 52  | 5260        | 0.32             | 0.32  |                                 |       | 7.87  | 10.34                       |       | 6.66     |       | Pass       |
| 11a     | 6Mbps     | 2   | 60  | 5300        | 0.32             | 0.32  |                                 |       | 7.52  | 10.34                       |       | 6.66     |       | Pass       |
| 11a     | 6Mbps     | 2   | 64  | 5320        | 0.32             | 0.32  |                                 |       | 6.71  | 10.34                       |       | 6.66     |       | Pass       |
| VHT20   | MCS0      | 2   | 52  | 5260        | 0.32             | 0.32  |                                 |       | 7.54  | 10.34                       |       | 6.66     |       | Pass       |
| VHT20   | MCS0      | 2   | 60  | 5300        | 0.32             | 0.32  |                                 |       | 7.34  | 10.34                       |       | 6.66     |       | Pass       |
| VHT20   | MCS0      | 2   | 64  | 5320        | 0.32             | 0.32  |                                 |       | 6.00  | 10.34                       |       | 6.66     |       | Pass       |
| VHT40   | MCS0      | 2   | 54  | 5270        | 0.09             | 0.09  |                                 |       | 3.71  | 10.34                       |       | 6.66     |       | Pass       |
| VHT40   | MCS0      | 2   | 62  | 5310        | 0.09             | 0.09  |                                 |       | 0.21  | 10.34                       |       | 6.66     |       | Pass       |
| VHT80   | MCS0      | 2   | 58  | 5290        | 0.18             | 0.18  |                                 |       | -3.36 | 10.34                       |       | 6.66     |       | Pass       |

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

| Band III |           |     |     |             |                     |       |                       |       |                                    |       |                                   |       |                                      |       |      |
|----------|-----------|-----|-----|-------------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|------|
| Mod.     | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       | Note |
|          |           |     |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 18.55               | 18.55 | 23.15                 | 27.39 | 23.68                              | 23.68 | 29.68                             | 29.68 | 23.98                                | 23.98 |      |
| 11a      | 6Mbps     | 1   | 116 | 5580        | 17.45               | 17.60 | 27.49                 | 27.14 | 23.42                              | 23.46 | 29.42                             | 29.46 | 23.98                                | 23.98 |      |
| 11a      | 6Mbps     | 1   | 140 | 5700        | 18.55               | 18.70 | 26.58                 | 30.66 | 23.68                              | 23.72 | 29.68                             | 29.72 | 23.98                                | 23.98 |      |
| 11a      | 6Mbps     | 2   | 100 | 5500        | 18.70               | 18.70 | 27.41                 | 27.12 | 23.72                              |       | 29.72                             |       | 23.98                                |       |      |
| 11a      | 6Mbps     | 2   | 116 | 5580        | 17.45               | 17.80 | 27.49                 | 35.18 | 23.42                              |       | 29.42                             |       | 23.98                                |       |      |
| 11a      | 6Mbps     | 2   | 140 | 5700        | 18.50               | 18.70 | 27.76                 | 35.61 | 23.67                              |       | 29.67                             |       | 23.98                                |       |      |
| VHT20    | MCS0      | 2   | 100 | 5500        | 19.30               | 19.30 | 28.40                 | 28.98 | 23.86                              |       | 29.86                             |       | 23.98                                |       |      |
| VHT20    | MCS0      | 2   | 116 | 5580        | 18.20               | 18.45 | 26.24                 | 34.88 | 23.60                              |       | 29.60                             |       | 23.98                                |       |      |
| VHT20    | MCS0      | 2   | 140 | 5700        | 19.35               | 19.30 | 23.04                 | 23.04 | 23.86                              |       | 29.86                             |       | 23.98                                |       |      |
| VHT40    | MCS0      | 2   | 102 | 5510        | 36.80               | 36.70 | 41.60                 | 41.21 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT40    | MCS0      | 2   | 110 | 5550        | 36.90               | 37.10 | 66.56                 | 66.48 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT40    | MCS0      | 2   | 134 | 5670        | 37.20               | 37.20 | 54.99                 | 85.12 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT80    | MCS0      | 2   | 106 | 5530        | 75.84               | 75.96 | 82.08                 | 81.60 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT80    | MCS0      | 2   | 122 | 5610        | 75.84               | 75.84 | 82.24                 | 93.44 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |

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

| FCC Band III |           |                 |     |             |                  |       |                               |       |       |                                 |       |          |       |                        |           |
|--------------|-----------|-----------------|-----|-------------|------------------|-------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.         | Data Rate | N <sub>Tx</sub> | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power Limit (dBm) | Pass/Fail |
|              |           |                 |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |                        |           |
| 11a          | 6Mbps     | 1               | 100 | 5500        | 0.32             | 0.32  | 15.77                         | 17.77 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| 11a          | 6Mbps     | 1               | 116 | 5580        | 0.32             | 0.32  | 15.84                         | 17.54 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| 11a          | 6Mbps     | 1               | 140 | 5700        | 0.32             | 0.32  | 15.88                         | 17.73 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| HT20         | MCS0      | 1               | 100 | 5500        | 0.32             | 0.32  | 15.34                         | 17.32 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| HT20         | MCS0      | 1               | 116 | 5580        | 0.32             | 0.32  | 15.81                         | 17.54 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| HT20         | MCS0      | 1               | 140 | 5700        | 0.32             | 0.32  | 14.94                         | 16.66 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| HT40         | MCS0      | 1               | 102 | 5510        | 0.09             | 0.09  | 12.76                         | 14.96 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| HT40         | MCS0      | 1               | 110 | 5550        | 0.09             | 0.09  | 15.30                         | 17.11 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| HT40         | MCS0      | 1               | 134 | 5670        | 0.09             | 0.09  | 14.89                         | 16.74 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| VHT20        | MCS0      | 1               | 100 | 5500        | 0.32             | 0.35  | 15.53                         | 17.37 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| VHT20        | MCS0      | 1               | 116 | 5580        | 0.32             | 0.35  | 15.83                         | 17.57 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| VHT20        | MCS0      | 1               | 140 | 5700        | 0.32             | 0.35  | 14.95                         | 16.70 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| VHT40        | MCS0      | 1               | 102 | 5510        | 0.09             | 0.08  | 12.84                         | 15.04 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| VHT40        | MCS0      | 1               | 110 | 5550        | 0.09             | 0.08  | 15.53                         | 17.16 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| VHT40        | MCS0      | 1               | 134 | 5670        | 0.09             | 0.08  | 15.21                         | 16.75 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| VHT80        | MCS0      | 1               | 106 | 5530        | 0.18             | 0.22  | 11.73                         | 13.64 |       | 23.98                           | 23.98 | 4.90     | 3.30  | 30                     | Pass      |
| VHT80        | MCS0      | 1               | 122 | 5610        | 0.18             | 0.22  | 14.16                         | 16.11 | 23.98 | 23.98                           | 4.90  | 3.30     | 30    | Pass                   |           |
| 11a          | 6Mbps     | 2               | 100 | 5500        | 0.32             | 0.32  | 15.50                         | 17.42 | 19.58 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| 11a          | 6Mbps     | 2               | 116 | 5580        | 0.32             | 0.32  | 15.93                         | 17.79 | 19.97 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| 11a          | 6Mbps     | 2               | 140 | 5700        | 0.32             | 0.32  | 15.42                         | 17.22 | 19.42 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| HT20         | MCS0      | 2               | 100 | 5500        | 0.32             | 0.32  | 15.47                         | 17.43 | 19.57 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| HT20         | MCS0      | 2               | 116 | 5580        | 0.32             | 0.32  | 15.89                         | 17.58 | 19.83 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| HT20         | MCS0      | 2               | 140 | 5700        | 0.32             | 0.32  | 15.00                         | 16.83 | 19.02 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| HT40         | MCS0      | 2               | 102 | 5510        | 0.09             | 0.09  | 12.79                         | 15.03 | 17.06 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| HT40         | MCS0      | 2               | 110 | 5550        | 0.09             | 0.09  | 15.32                         | 17.19 | 19.36 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| HT40         | MCS0      | 2               | 134 | 5670        | 0.09             | 0.09  | 15.17                         | 16.91 | 19.14 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT20        | MCS0      | 2               | 100 | 5500        | 0.32             | 0.32  | 15.60                         | 17.44 | 19.63 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT20        | MCS0      | 2               | 116 | 5580        | 0.32             | 0.32  | 15.91                         | 17.60 | 19.85 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT20        | MCS0      | 2               | 140 | 5700        | 0.32             | 0.32  | 15.03                         | 16.88 | 19.07 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT40        | MCS0      | 2               | 102 | 5510        | 0.09             | 0.09  | 12.86                         | 15.11 | 17.14 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT40        | MCS0      | 2               | 110 | 5550        | 0.09             | 0.09  | 15.54                         | 17.27 | 19.50 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT40        | MCS0      | 2               | 134 | 5670        | 0.09             | 0.09  | 15.06                         | 17.05 | 19.17 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT80        | MCS0      | 2               | 106 | 5530        | 0.18             | 0.18  | 11.79                         | 13.79 | 15.91 | 23.98                           |       | 4.90     |       | 30                     | Pass      |
| VHT80        | MCS0      | 2               | 122 | 5610        | 0.18             | 0.18  | 14.28                         | 16.18 | 18.34 | 23.98                           |       | 4.90     |       | 30                     | Pass      |

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

| Band III |           |     |     |             |                  |       |                                 |       |       |                             |       |          |       |            |
|----------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------|
| Mod.     | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|          |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |            |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 0.32             | 0.32  | 4.73                            | 6.96  |       | 11.00                       | 11.00 | 4.90     | 3.30  | Pass       |
| 11a      | 6Mbps     | 1   | 116 | 5580        | 0.32             | 0.32  | 5.16                            | 7.07  |       | 11.00                       | 11.00 | 4.90     | 3.30  | Pass       |
| 11a      | 6Mbps     | 1   | 140 | 5700        | 0.32             | 0.32  | 4.24                            | 6.05  |       | 11.00                       | 11.00 | 4.90     | 3.30  | Pass       |
| 11a      | 6Mbps     | 2   | 100 | 5500        | 0.32             | 0.32  |                                 |       | 8.52  | 9.85                        |       | 7.15     |       | Pass       |
| 11a      | 6Mbps     | 2   | 116 | 5580        | 0.32             | 0.32  |                                 |       | 9.03  | 9.85                        |       | 7.15     |       | Pass       |
| 11a      | 6Mbps     | 2   | 140 | 5700        | 0.32             | 0.32  |                                 |       | 7.94  | 9.85                        |       | 7.15     |       | Pass       |
| VHT20    | MCS0      | 2   | 100 | 5500        | 0.32             | 0.32  |                                 |       | 8.03  | 9.85                        |       | 7.15     |       | Pass       |
| VHT20    | MCS0      | 2   | 116 | 5580        | 0.32             | 0.32  |                                 |       | 8.67  | 9.85                        |       | 7.15     |       | Pass       |
| VHT20    | MCS0      | 2   | 140 | 5700        | 0.32             | 0.32  |                                 |       | 7.01  | 9.85                        |       | 7.15     |       | Pass       |
| VHT40    | MCS0      | 2   | 102 | 5510        | 0.09             | 0.09  |                                 |       | 2.73  | 9.85                        |       | 7.15     |       | Pass       |
| VHT40    | MCS0      | 2   | 110 | 5550        | 0.09             | 0.09  |                                 |       | 5.23  | 9.85                        |       | 7.15     |       | Pass       |
| VHT40    | MCS0      | 2   | 134 | 5670        | 0.09             | 0.09  |                                 |       | 4.06  | 9.85                        |       | 7.15     |       | Pass       |
| VHT80    | MCS0      | 2   | 106 | 5530        | 0.18             | 0.18  |                                 |       | -1.13 | 9.85                        |       | 7.15     |       | Pass       |
| VHT80    | MCS0      | 2   | 122 | 5610        | 0.18             | 0.18  |                                 |       | 0.98  | 9.85                        |       | 7.15     |       | Pass       |

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

| Straddle Channel |           |     |     |             |                     |       |                               |       |                               |       |                                    |       |                                   |       |                                      |       |
|------------------|-----------|-----|-----|-------------|---------------------|-------|-------------------------------|-------|-------------------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|
| Mod.             | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26dB Emission Bandwidth (MHz) |       | 6 dB Emission Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       |
|                  |           |     |     |             | 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        | 18.75               | 18.75 | 23.00                         | 26.90 | 16.32                         | 16.36 | -                                  | -     | -                                 | -     | -                                    | -     |
|                  |           |     |     | NII-2C      | 14.35               | 14.35 | 16.45                         | 16.75 | 13.18                         | 13.18 | 22.57                              | 22.57 | 28.57                             | 28.57 | 23.16                                | 23.24 |
|                  |           |     |     | NII-3       | 4.40                | 4.40  | 6.55                          | 10.15 | 3.14                          | 3.18  | 30.00                              | 30.00 | 36.02                             | 36.02 | -                                    | -     |
| 11a              | 6Mbps     | 2   | 144 | 5720        | 18.75               | 18.75 | 23.40                         | 27.00 | 16.32                         | 16.32 | -                                  | -     | -                                 | -     | -                                    | -     |
|                  |           |     |     | NII-2C      | 14.35               | 14.35 | 16.75                         | 16.7  | 13.16                         | 13.16 | 22.57                              | 22.57 | 28.57                             | 28.57 | 23.23                                | 23.23 |
|                  |           |     |     | NII-3       | 4.4                 | 4.4   | 6.65                          | 10.3  | 3.16                          | 3.16  | 30.00                              | 30.00 | 36.02                             | 36.02 | -                                    | -     |
| VHT20            | MCS0      | 2   | 144 | 5720        | 19.20               | 19.20 | 23.10                         | 23.30 | 17.56                         | 17.60 | -                                  | -     | -                                 | -     | -                                    | -     |
|                  |           |     |     | NII-2C      | 14.6                | 14.6  | 16.5                          | 16.75 | 13.78                         | 13.8  | 22.64                              | 22.64 | 28.64                             | 28.64 | 23.17                                | 23.17 |
|                  |           |     |     | NII-3       | 4.6                 | 4.6   | 6.6                           | 6.55  | 3.78                          | 3.8   | 30.00                              | 30.00 | 36.02                             | 36.02 | -                                    | -     |
| VHT40            | MCS0      | 2   | 142 | 5710        | 36.90               | 36.90 | 41.40                         | 41.94 | 36.32                         | 36.32 | -                                  | -     | -                                 | -     | -                                    | -     |
|                  |           |     |     | NII-2C      | 33.5                | 33.5  | 35.61                         | 35.7  | 33.12                         | 33.12 | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 |
|                  |           |     |     | NII-3       | 3.4                 | 3.4   | 5.79                          | 6.24  | 3.2                           | 3.2   | 30.00                              | 30.00 | 36.02                             | 36.02 | -                                    | -     |
| VHT80            | MCS0      | 2   | 138 | 5690        | 75.84               | 75.84 | 82.24                         | 81.92 | 75.68                         | 75.84 | -                                  | -     | -                                 | -     | -                                    | -     |
|                  |           |     |     | NII-2C      | 72.92               | 72.92 | 76.12                         | 75.8  | 72.52                         | 72.92 | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 |
|                  |           |     |     | NII-3       | 2.92                | 2.92  | 6.12                          | 6.12  | 3.16                          | 2.92  | 30.00                              | 30.00 | 36.02                             | 36.02 | -                                    | -     |

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

| FCC Straddle Channel |           |     |     |             |                  |       |                               |       |       |                                 |       |          |       |  |           |
|----------------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|--|-----------|
| Mod.                 | Data Rate | Ntx | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       |  | Pass/Fail |
|                      |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |  |           |
| 11a                  | 6Mbps     | 1   | 144 | 5720        | 0.32             | 0.32  | 15.81                         | 17.59 |       | -                               | -     | 4.90     | 3.30  |  | -         |
|                      |           |     |     | NII-2C      | 0.32             | 0.32  | 14.83                         | 16.59 |       | 23.16                           | 23.24 | 4.90     | 3.30  |  | Pass      |
|                      |           |     |     | NII-3       | 0.32             | 0.32  | 8.86                          | 10.74 |       | -                               | -     | 4.90     | 3.30  |  | Pass      |
| HT20                 | MCS0      | 1   | 144 | 5720        | 0.32             | 0.32  | 15.77                         | 17.48 |       | -                               | -     | 4.90     | 3.30  |  | -         |
|                      |           |     |     | NII-2C      | 0.32             | 0.32  | 14.80                         | 16.41 |       | 23.98                           | 23.98 | 4.90     | 3.30  |  | Pass      |
|                      |           |     |     | NII-3       | 0.32             | 0.32  | 8.80                          | 10.89 |       | -                               | -     | 4.90     | 3.30  |  | Pass      |
| HT40                 | MCS0      | 1   | 142 | 5710        | 0.09             | 0.09  | 15.18                         | 17.05 |       | -                               | -     | 4.90     | 3.30  |  | -         |
|                      |           |     |     | NII-2C      | 0.09             | 0.09  | 14.79                         | 16.68 |       | 23.98                           | 23.98 | 4.90     | 3.30  |  | Pass      |
|                      |           |     |     | NII-3       | 0.09             | 0.09  | 4.48                          | 6.12  |       | -                               | -     | 4.90     | 3.30  |  | Pass      |
| VHT20                | MCS0      | 1   | 144 | 5720        | 0.32             | 0.35  | 15.86                         | 17.61 |       | -                               | -     | 4.90     | 3.30  |  | -         |
|                      |           |     |     | NII-2C      | 0.32             | 0.35  | 14.82                         | 16.56 |       | 23.98                           | 23.98 | 4.90     | 3.30  |  | Pass      |
|                      |           |     |     | NII-3       | 0.32             | 0.35  | 9.15                          | 10.93 |       | -                               | -     | 4.90     | 3.30  |  | Pass      |
| VHT40                | MCS0      | 1   | 142 | 5710        | 0.09             | 0.08  | 15.27                         | 17.15 |       | -                               | -     | 4.90     | 3.30  |  | -         |
|                      |           |     |     | NII-2C      | 0.09             | 0.08  | 14.88                         | 16.78 |       | 23.98                           | 23.98 | 4.90     | 3.30  |  | Pass      |
|                      |           |     |     | NII-3       | 0.09             | 0.08  | 4.56                          | 6.30  |       | -                               | -     | 4.90     | 3.30  |  | Pass      |
| VHT80                | MCS0      | 1   | 138 | 5690        | 0.18             | 0.22  | 14.04                         | 16.18 |       | -                               | -     | 4.90     | 3.30  |  | -         |
|                      |           |     |     | NII-2C      | 0.18             | 0.22  | 13.88                         | 16.02 |       | 23.98                           | 23.98 | 4.90     | 3.30  |  | Pass      |
|                      |           |     |     | NII-3       | 0.18             | 0.22  | -0.33                         | 1.63  |       | -                               | -     | 4.90     | 3.30  |  | Pass      |
| 11a                  | 6Mbps     | 2   | 144 | 5720        | 0.32             | 0.32  | 17.71                         | 15.93 | 19.92 | -                               |       | 4.90     |       |  | -         |
|                      |           |     |     | NII-2C      | 0.32             | 0.32  | 16.74                         | 15.00 | 18.97 | 23.23                           |       | 4.90     |       |  | Pass      |
|                      |           |     |     | NII-3       | 0.32             | 0.32  | 10.70                         | 8.78  | 12.86 | -                               |       | 4.90     |       |  | Pass      |
| HT20                 | MCS0      | 2   | 144 | 5720        | 0.32             | 0.32  | 15.82                         | 17.57 | 19.79 | -                               |       | 4.90     |       |  | -         |
|                      |           |     |     | NII-2C      | 0.32             | 0.32  | 14.81                         | 16.50 | 18.75 | 23.17                           |       | 4.90     |       |  | Pass      |
|                      |           |     |     | NII-3       | 0.32             | 0.32  | 8.99                          | 10.94 | 13.08 | -                               |       | 4.90     |       |  | Pass      |
| HT40                 | MCS0      | 2   | 142 | 5710        | 0.09             | 0.09  | 15.22                         | 17.11 | 19.28 | -                               |       | 4.90     |       |  | -         |
|                      |           |     |     | NII-2C      | 0.09             | 0.09  | 14.84                         | 16.74 | 18.90 | 23.98                           |       | 4.90     |       |  | Pass      |
|                      |           |     |     | NII-3       | 0.09             | 0.09  | 4.51                          | 6.22  | 8.46  | -                               |       | 4.90     |       |  | Pass      |
| VHT20                | MCS0      | 2   | 144 | 5720        | 0.32             | 0.32  | 15.89                         | 17.74 | 19.92 | -                               |       | 4.90     |       |  | -         |
|                      |           |     |     | NII-2C      | 0.32             | 0.32  | 14.84                         | 16.69 | 18.87 | 23.17                           |       | 4.90     |       |  | Pass      |
|                      |           |     |     | NII-3       | 0.32             | 0.32  | 9.21                          | 11.05 | 13.24 | -                               |       | 4.90     |       |  | Pass      |
| VHT40                | MCS0      | 2   | 142 | 5710        | 0.09             | 0.09  | 15.29                         | 17.29 | 19.42 | -                               |       | 4.90     |       |  | -         |
|                      |           |     |     | NII-2C      | 0.09             | 0.09  | 14.90                         | 16.92 | 19.04 | 23.98                           |       | 4.90     |       |  | Pass      |
|                      |           |     |     | NII-3       | 0.09             | 0.09  | 4.60                          | 6.45  | 8.63  | -                               |       | 4.90     |       |  | Pass      |
| VHT80                | MCS0      | 2   | 138 | 5690        | 0.18             | 0.18  | 14.06                         | 16.27 | 18.31 | -                               |       | 4.90     |       |  | -         |
|                      |           |     |     | NII-2C      | 0.18             | 0.18  | 13.91                         | 16.11 | 18.16 | 23.98                           |       | 4.90     |       |  | Pass      |
|                      |           |     |     | NII-3       | 0.18             | 0.18  | -0.59                         | 1.73  | 3.73  | -                               |       | 4.90     |       |  | Pass      |

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

| Straddle Channel |           |     |     |             |                  |       |                                 |       |       |                             |       |          |       |            |
|------------------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------|
| Mod.             | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |       | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|                  |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |            |
| 11a              | 6Mbps     | 1   | 144 | NII-2C      | 0.32             | 0.32  | 3.09                            | 4.89  |       | 11.00                       | 11.00 | 4.90     | 3.30  | Pass       |
|                  |           |     |     | NII-3       | 0.32             | 0.32  | 3.09                            | 4.89  |       | 30.00                       | 30.00 | 4.90     | 3.30  | Pass       |
| 11a              | 6Mbps     | 2   | 144 | NII-2C      | 0.32             | 0.32  |                                 |       | 7.08  | 9.85                        |       | 7.15     |       | Pass       |
|                  |           |     |     | NII-3       | 0.32             | 0.32  |                                 |       | 7.08  | 28.85                       |       | 7.15     |       | Pass       |
| VHT20            | MCS0      | 2   | 144 | NII-2C      | 0.32             | 0.32  |                                 |       | 6.38  | 9.85                        |       | 7.15     |       | Pass       |
|                  |           |     |     | NII-3       | 0.32             | 0.32  |                                 |       | 6.38  | 28.85                       |       | 7.15     |       | Pass       |
| VHT40            | MCS0      | 2   | 142 | NII-2C      | 0.09             | 0.09  |                                 |       | 2.94  | 9.85                        |       | 7.15     |       | Pass       |
|                  |           |     |     | NII-3       | 0.09             | 0.09  |                                 |       | 2.94  | 28.85                       |       | 7.15     |       | Pass       |
| VHT80            | MCS0      | 2   | 138 | NII-2C      | 0.18             | 0.18  |                                 |       | -0.54 | 9.85                        |       | 7.15     |       | Pass       |
|                  |           |     |     | NII-3       | 0.18             | 0.18  |                                 |       | -0.54 | 28.85                       |       | 7.15     |       | Pass       |

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

| Band I |           |     |     |             |                        |                           |                           |                  |             |      |
|--------|-----------|-----|-----|-------------|------------------------|---------------------------|---------------------------|------------------|-------------|------|
| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stability (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 60               | 3.9         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | -30              | 3.9         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 20               | 4.2         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 20               | 3.7         |      |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 20               | 3.9         |      |

| Band II |           |     |     |             |                        |                           |                           |                  |             |      |
|---------|-----------|-----|-----|-------------|------------------------|---------------------------|---------------------------|------------------|-------------|------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stability (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | 60               | 3.9         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | -30              | 3.9         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | 20               | 4.2         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | 20               | 3.7         |      |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | 20               | 3.9         |      |

| Band III |           |     |     |             |                        |                           |                           |                  |             |      |
|----------|-----------|-----|-----|-------------|------------------------|---------------------------|---------------------------|------------------|-------------|------|
| Mod.     | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stability (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.000               | 0.000                     | 0.00                      | 60               | 3.9         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.025               | 0.025                     | 4.55                      | -30              | 3.9         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.000               | 0.000                     | 0.00                      | 20               | 4.2         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.000               | 0.000                     | 0.00                      | 20               | 3.7         |      |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.000               | 0.000                     | 0.00                      | 20               | 3.9         |      |



**<TXBF Modes>**

Report Number : FR672834E

|                |                         |                    |       |    |
|----------------|-------------------------|--------------------|-------|----|
| Test Engineer: | Kai Liao                | Temperature:       | 21~25 | °C |
| Test Date:     | 2016/09/03 ~ 2016/09/16 | Relative Humidity: | 51~54 | %  |

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

| Band I |           |     |     |             |                     |       |                       |       |                                    |       |                                   |       |      |
|--------|-----------|-----|-----|-------------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|------|
| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | Note |
|        |           |     |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 |      |
| VHT20  | MCS0      | 2   | 36  | 5180        | 18.95               | 18.95 | 29.36                 | 29.75 | -                                  |       | 22.78                             |       |      |
| VHT20  | MCS0      | 2   | 44  | 5220        | 19.00               | 19.00 | 32.01                 | 38.68 | -                                  |       | 22.79                             |       |      |
| VHT20  | MCS0      | 2   | 48  | 5240        | 18.10               | 18.25 | 29.81                 | 31.78 | -                                  |       | 22.58                             |       |      |
| VHT40  | MCS0      | 2   | 38  | 5190        | 36.70               | 36.70 | 40.96                 | 41.28 | -                                  |       | 23.01                             |       |      |
| VHT40  | MCS0      | 2   | 46  | 5230        | 36.80               | 36.90 | 50.56                 | 67.52 | -                                  |       | 23.01                             |       |      |
| VHT80  | MCS0      | 2   | 42  | 5210        | 76.08               | 75.72 | 81.60                 | 81.60 | -                                  |       | 23.01                             |       |      |

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

| FCC Band I |           |     |     |             |                               |       |       |                                 |       |          |       |  |           |
|------------|-----------|-----|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|--|-----------|
| 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 |  |           |
| HT20       | MCS0      | 2   | 36  | 5180        | 14.60                         | 16.10 | 18.42 | 23.58                           |       | 6.42     |       |  | Pass      |
| HT20       | MCS0      | 2   | 44  | 5220        | 15.60                         | 17.50 | 19.66 | 23.58                           |       | 6.42     |       |  | Pass      |
| HT20       | MCS0      | 2   | 48  | 5240        | 15.70                         | 17.30 | 19.58 | 23.58                           |       | 6.42     |       |  | Pass      |
| HT40       | MCS0      | 2   | 38  | 5190        | 12.10                         | 13.60 | 15.92 | 23.58                           |       | 6.42     |       |  | Pass      |
| HT40       | MCS0      | 2   | 46  | 5230        | 15.30                         | 17.10 | 19.30 | 23.58                           |       | 6.42     |       |  | Pass      |
| VHT20      | MCS0      | 2   | 36  | 5180        | 14.80                         | 16.40 | 18.68 | 23.58                           |       | 6.42     |       |  | Pass      |
| VHT20      | MCS0      | 2   | 44  | 5220        | 15.70                         | 17.70 | 19.82 | 23.58                           |       | 6.42     |       |  | Pass      |
| VHT20      | MCS0      | 2   | 48  | 5240        | 15.80                         | 17.50 | 19.74 | 23.58                           |       | 6.42     |       |  | Pass      |
| VHT40      | MCS0      | 2   | 38  | 5190        | 12.30                         | 13.70 | 16.07 | 23.58                           |       | 6.42     |       |  | Pass      |
| VHT40      | MCS0      | 2   | 46  | 5230        | 15.30                         | 17.10 | 19.30 | 23.58                           |       | 6.42     |       |  | Pass      |
| VHT80      | MCS0      | 2   | 42  | 5210        | 12.00                         | 14.20 | 16.25 | 23.58                           |       | 6.42     |       |  | Pass      |

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

| FCC Band I |           |     |     |             |                                 |       |     |                             |       |          |       |  |            |
|------------|-----------|-----|-----|-------------|---------------------------------|-------|-----|-----------------------------|-------|----------|-------|--|------------|
| 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 |  |            |
| VHT20      | MCS0      | 2   | 36  | 5180        |                                 |       |     | 7.25                        | 10.58 | 6.42     |       |  | Pass       |
| VHT20      | MCS0      | 2   | 44  | 5220        |                                 |       |     | 8.73                        | 10.58 | 6.42     |       |  | Pass       |
| VHT20      | MCS0      | 2   | 48  | 5240        |                                 |       |     | 8.86                        | 10.58 | 6.42     |       |  | Pass       |
| VHT40      | MCS0      | 2   | 38  | 5190        |                                 |       |     | 3.27                        | 10.58 | 6.42     |       |  | Pass       |
| VHT40      | MCS0      | 2   | 46  | 5230        |                                 |       |     | 5.96                        | 10.58 | 6.42     |       |  | Pass       |
| VHT80      | MCS0      | 2   | 42  | 5210        |                                 |       |     | -1.94                       | 10.58 | 6.42     |       |  | Pass       |

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

| Band II |           |     |     |             |                     |       |                       |       |                                    |       |                                   |       |                                      |       |      |
|---------|-----------|-----|-----|-------------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|------|
| Mod.    | Data Rate | NTx | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       | Note |
|         |           |     |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 |      |
| VHT20   | MCS0      | 2   | 52  | 5260        | 18.10               | 18.25 | 33.02                 | 31.48 | 23.58                              |       | 29.58                             |       | 23.98                                |       |      |
| VHT20   | MCS0      | 2   | 60  | 5300        | 18.90               | 19.00 | 31.59                 | 32.69 | 23.76                              |       | 29.76                             |       | 23.98                                |       |      |
| VHT20   | MCS0      | 2   | 64  | 5320        | 19.10               | 19.00 | 29.92                 | 34.24 | 23.79                              |       | 29.79                             |       | 23.98                                |       |      |
| VHT40   | MCS0      | 2   | 54  | 5270        | 36.90               | 36.80 | 55.68                 | 55.68 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT40   | MCS0      | 2   | 62  | 5310        | 36.80               | 36.70 | 41.06                 | 40.93 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT80   | MCS0      | 2   | 58  | 5290        | 76.08               | 76.08 | 82.56                 | 81.12 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |

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

| FCC Band II |           |                 |     |             |                               |       |       |                                 |       |          |       |                        |           |
|-------------|-----------|-----------------|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.        | Data Rate | N <sub>Tx</sub> | CH. | Freq. (MHz) | 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 |                        |           |
| HT20        | MCS0      | 2               | 52  | 5260        | 15.60                         | 17.40 | 19.60 | 23.31                           |       | 6.66     |       | 30                     | Pass      |
| HT20        | MCS0      | 2               | 60  | 5300        | 15.50                         | 17.40 | 19.56 | 23.31                           |       | 6.66     |       | 30                     | Pass      |
| HT20        | MCS0      | 2               | 64  | 5320        | 14.60                         | 16.50 | 18.66 | 23.31                           |       | 6.66     |       | 30                     | Pass      |
| HT40        | MCS0      | 2               | 54  | 5270        | 15.20                         | 17.00 | 19.20 | 23.31                           |       | 6.66     |       | 30                     | Pass      |
| HT40        | MCS0      | 2               | 62  | 5310        | 12.00                         | 13.50 | 15.82 | 23.31                           |       | 6.66     |       | 30                     | Pass      |
| VHT20       | MCS0      | 2               | 52  | 5260        | 15.70                         | 17.50 | 19.70 | 23.31                           |       | 6.66     |       | 30                     | Pass      |
| VHT20       | MCS0      | 2               | 60  | 5300        | 15.60                         | 17.50 | 19.66 | 23.31                           |       | 6.66     |       | 30                     | Pass      |
| VHT20       | MCS0      | 2               | 64  | 5320        | 14.70                         | 16.60 | 18.76 | 23.31                           |       | 6.66     |       | 30                     | Pass      |
| VHT40       | MCS0      | 2               | 54  | 5270        | 15.30                         | 17.10 | 19.30 | 23.31                           |       | 6.66     |       | 30                     | Pass      |
| VHT40       | MCS0      | 2               | 62  | 5310        | 12.10                         | 13.60 | 15.92 | 23.31                           |       | 6.66     |       | 30                     | Pass      |
| VHT80       | MCS0      | 2               | 58  | 5290        | 11.20                         | 13.20 | 15.32 | 23.31                           |       | 6.66     |       | 30                     | Pass      |

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

| Band II |           |     |     |             |                                 |       |       |                             |       |          |       |            |
|---------|-----------|-----|-----|-------------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------|
| 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 |            |
| VHT20   | MCS0      | 2   | 52  | 5260        |                                 |       | 8.95  | 10.34                       |       | 6.66     |       | Pass       |
| VHT20   | MCS0      | 2   | 60  | 5300        |                                 |       | 8.51  | 10.34                       |       | 6.66     |       | Pass       |
| VHT20   | MCS0      | 2   | 64  | 5320        |                                 |       | 3.35  | 10.34                       |       | 6.66     |       | Pass       |
| VHT40   | MCS0      | 2   | 54  | 5270        |                                 |       | 7.12  | 10.34                       |       | 6.66     |       | Pass       |
| VHT40   | MCS0      | 2   | 62  | 5310        |                                 |       | -0.26 | 10.34                       |       | 6.66     |       | Pass       |
| VHT80   | MCS0      | 2   | 58  | 5290        |                                 |       | -3.36 | 10.34                       |       | 6.66     |       | Pass       |

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

| Band III |           |     |     |             |                     |       |                       |       |                                    |       |                                   |       |                                      |       |      |
|----------|-----------|-----|-----|-------------|---------------------|-------|-----------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|------|
| Mod.     | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       | Note |
|          |           |     |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 |      |
| VHT20    | MCS0      | 2   | 100 | 5500        | 19.15               | 19.25 | 31.21                 | 35.36 | 23.82                              |       | 29.82                             |       | 23.98                                |       |      |
| VHT20    | MCS0      | 2   | 116 | 5580        | 18.45               | 18.45 | 40.51                 | 41.75 | 23.66                              |       | 29.66                             |       | 23.98                                |       |      |
| VHT20    | MCS0      | 2   | 140 | 5700        | 19.30               | 19.40 | 42.07                 | 40.76 | 23.86                              |       | 29.86                             |       | 23.98                                |       |      |
| VHT40    | MCS0      | 2   | 102 | 5510        | 36.70               | 36.60 | 40.83                 | 40.96 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT40    | MCS0      | 2   | 110 | 5550        | 36.90               | 37.00 | 48.48                 | 54.40 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT40    | MCS0      | 2   | 134 | 5670        | 36.80               | 36.90 | 51.68                 | 61.84 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT80    | MCS0      | 2   | 106 | 5530        | 76.08               | 75.96 | 81.12                 | 82.32 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
| VHT80    | MCS0      | 2   | 122 | 5610        | 75.84               | 75.84 | 82.08                 | 93.36 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |

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

| FCC Band III |           |     |     |             |                               |       |       |                                 |       |          |       |                        |           |
|--------------|-----------|-----|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|------------------------|-----------|
| 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 |                        |           |
| HT20         | MCS0      | 2   | 100 | 5500        | 15.60                         | 17.20 | 19.48 | 22.83                           |       | 7.15     |       | 30                     | Pass      |
| HT20         | MCS0      | 2   | 116 | 5580        | 15.30                         | 17.50 | 19.55 | 22.83                           |       | 7.15     |       | 30                     | Pass      |
| HT20         | MCS0      | 2   | 140 | 5700        | 14.90                         | 16.80 | 18.96 | 22.83                           |       | 7.15     |       | 30                     | Pass      |
| HT40         | MCS0      | 2   | 102 | 5510        | 13.00                         | 14.80 | 17.00 | 22.83                           |       | 7.15     |       | 30                     | Pass      |
| HT40         | MCS0      | 2   | 110 | 5550        | 15.20                         | 17.20 | 19.32 | 22.83                           |       | 7.15     |       | 30                     | Pass      |
| HT40         | MCS0      | 2   | 134 | 5670        | 14.80                         | 16.90 | 18.99 | 22.83                           |       | 7.15     |       | 30                     | Pass      |
| VHT20        | MCS0      | 2   | 100 | 5500        | 15.80                         | 17.30 | 19.62 | 22.83                           |       | 7.15     |       | 30                     | Pass      |
| VHT20        | MCS0      | 2   | 116 | 5580        | 15.60                         | 17.60 | 19.72 | 22.83                           |       | 7.15     |       | 30                     | Pass      |
| VHT20        | MCS0      | 2   | 140 | 5700        | 15.00                         | 16.90 | 19.06 | 22.83                           |       | 7.15     |       | 30                     | Pass      |
| VHT40        | MCS0      | 2   | 102 | 5510        | 13.10                         | 14.90 | 17.10 | 22.83                           |       | 7.15     |       | 30                     | Pass      |
| VHT40        | MCS0      | 2   | 110 | 5550        | 15.40                         | 17.30 | 19.46 | 22.83                           |       | 7.15     |       | 30                     | Pass      |
| VHT40        | MCS0      | 2   | 134 | 5670        | 14.90                         | 17.00 | 19.09 | 22.83                           |       | 7.15     |       | 30                     | Pass      |
| VHT80        | MCS0      | 2   | 106 | 5530        | 11.60                         | 13.70 | 15.79 | 22.83                           |       | 7.15     |       | 30                     | Pass      |
| VHT80        | MCS0      | 2   | 122 | 5610        | 14.30                         | 16.10 | 18.30 | 22.83                           |       | 7.15     |       | 30                     | Pass      |

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

| Band III |           |     |     |             |                                 |       |       |                             |       |          |       |            |
|----------|-----------|-----|-----|-------------|---------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------|
| 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 |            |
| VHT20    | MCS0      | 2   | 100 | 5500        |                                 |       | 9.48  | 9.85                        |       | 7.15     |       | Pass       |
| VHT20    | MCS0      | 2   | 116 | 5580        |                                 |       | 9.69  | 9.85                        |       | 7.15     |       | Pass       |
| VHT20    | MCS0      | 2   | 140 | 5700        |                                 |       | 8.54  | 9.85                        |       | 7.15     |       | Pass       |
| VHT40    | MCS0      | 2   | 102 | 5510        |                                 |       | 5.16  | 9.85                        |       | 7.15     |       | Pass       |
| VHT40    | MCS0      | 2   | 110 | 5550        |                                 |       | 8.95  | 9.85                        |       | 7.15     |       | Pass       |
| VHT40    | MCS0      | 2   | 134 | 5670        |                                 |       | 5.81  | 9.85                        |       | 7.15     |       | Pass       |
| VHT80    | MCS0      | 2   | 106 | 5530        |                                 |       | -1.07 | 9.85                        |       | 7.15     |       | Pass       |
| VHT80    | MCS0      | 2   | 122 | 5610        |                                 |       | 2.34  | 9.85                        |       | 7.15     |       | Pass       |

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

| Straddle Channel |           |     |     |             |                     |       |                               |       |                               |       |                                    |       |                                   |       |                                      |       |      |
|------------------|-----------|-----|-----|-------------|---------------------|-------|-------------------------------|-------|-------------------------------|-------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|------|
| Mod.             | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26dB Emission Bandwidth (MHz) |       | 6 dB Emission Bandwidth (MHz) |       | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       | Note |
|                  |           |     |     |             | Ant 1               | Ant 2 | Ant 1                         | Ant 2 | Ant 1                         | Ant 2 | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 | Ant 1                                | Ant 2 |      |
| VHT20            | MCS0      | 2   | 144 | 5720        | 19.20               | 19.20 | 33.52                         | 39.60 | 17.60                         | 17.52 | -                                  |       | -                                 |       | -                                    |       |      |
|                  |           |     |     | NII-2C      | 14.6                | 14.6  | 21.32                         | 24.52 | 13.78                         | 13.74 | 22.64                              |       | 28.64                             |       | 23.98                                |       |      |
|                  |           |     |     | NII-3       | 4.6                 | 4.6   | 12.2                          | 15.08 | 3.82                          | 3.78  | 23.63                              |       | 29.63                             |       | 21.86                                |       |      |
| VHT40            | MCS0      | 2   | 142 | 5710        | 37.20               | 37.20 | 69.76                         | 87.06 | 36.32                         | 36.32 | -                                  |       | -                                 |       | -                                    |       |      |
|                  |           |     |     | NII-2C      | 33.6                | 33.6  | 50.2                          | 59.66 | 33.16                         | 33.16 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
|                  |           |     |     | NII-3       | 3.6                 | 3.6   | 19.56                         | 27.4  | 3.16                          | 3.16  | 22.56                              |       | 28.56                             |       | 23.91                                |       |      |
| VHT80            | MCS0      | 2   | 138 | 5690        | 75.96               | 75.96 | 84.24                         | ##### | 75.76                         | 75.28 | -                                  |       | -                                 |       | -                                    |       |      |
|                  |           |     |     | NII-2C      | 73.04               | 73.04 | 75.56                         | 100.6 | 73.24                         | 72.76 | 23.98                              |       | 30.00                             |       | 23.98                                |       |      |
|                  |           |     |     | NII-3       | 2.92                | 2.92  | 8.68                          | 27.16 | 2.52                          | 2.52  | 21.65                              |       | 27.65                             |       | 20.39                                |       |      |



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

| FCC Straddle Channel |           |     |     |             |                               |       |       |                                 |       |          |       |           |
|----------------------|-----------|-----|-----|-------------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|-----------|
| 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 |           |
| HT20                 | MCS0      | 2   | 144 | 5720        | 15.90                         | 17.29 | 19.66 | -                               | -     | 7.15     | 7.15  | -         |
|                      |           |     |     | NII-2C      | 14.90                         | 16.25 | 18.64 | 22.83                           | -     | 7.15     | 7.15  | Pass      |
|                      |           |     |     | NII-3       | 9.01                          | 10.58 | 12.88 | 20.72                           | -     | 7.15     | 7.15  | Pass      |
| HT40                 | MCS0      | 2   | 142 | 5710        | 15.48                         | 17.02 | 19.33 | -                               | -     | 7.15     | 7.15  | -         |
|                      |           |     |     | NII-2C      | 15.12                         | 16.61 | 18.94 | 22.83                           | -     | 7.15     | 7.15  | Pass      |
|                      |           |     |     | NII-3       | 4.51                          | 6.52  | 8.64  | 14.85                           | -     | 7.15     | 7.15  | Pass      |
| VHT20                | MCS0      | 2   | 144 | 5720        | 16.09                         | 17.32 | 19.76 | -                               | -     | 7.15     | 7.15  | -         |
|                      |           |     |     | NII-2C      | 15.10                         | 16.32 | 18.76 | 22.83                           | -     | 7.15     | 7.15  | Pass      |
|                      |           |     |     | NII-3       | 9.16                          | 10.47 | 12.87 | 20.72                           | -     | 7.15     | 7.15  | Pass      |
| VHT40                | MCS0      | 2   | 142 | 5710        | 15.56                         | 17.19 | 19.46 | -                               | -     | 7.15     | 7.15  | -         |
|                      |           |     |     | NII-2C      | 15.24                         | 16.80 | 19.10 | 22.83                           | -     | 7.15     | 7.15  | Pass      |
|                      |           |     |     | NII-3       | 4.09                          | 6.53  | 8.49  | 22.77                           | -     | 7.15     | 7.15  | Pass      |
| VHT80                | MCS0      | 2   | 138 | 5690        | 14.48                         | 15.85 | 18.23 | -                               | -     | 7.15     | 7.15  | -         |
|                      |           |     |     | NII-2C      | 14.33                         | 15.71 | 18.08 | 22.83                           | -     | 7.15     | 7.15  | Pass      |
|                      |           |     |     | NII-3       | -0.19                         | 0.92  | 3.41  | 19.24                           | -     | 7.15     | 7.15  | Pass      |



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

| Straddle Channel |           |     |     |             |                                 |       |      |                             |       |          |       |            |
|------------------|-----------|-----|-----|-------------|---------------------------------|-------|------|-----------------------------|-------|----------|-------|------------|
| 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 |            |
| VHT20            | MCS0      | 2   | 144 | NII-2C      |                                 |       | 9.39 | 9.85                        |       | 7.15     |       | Pass       |
|                  |           |     |     | NII-3       |                                 |       | 9.39 | 28.85                       |       | 7.15     |       | Pass       |
| VHT40            | MCS0      | 2   | 142 | NII-2C      |                                 |       | 6.78 | 9.85                        |       | 7.15     |       | Pass       |
|                  |           |     |     | NII-3       |                                 |       | 6.78 | 28.85                       |       | 7.15     |       | Pass       |
| VHT80            | MCS0      | 2   | 138 | NII-2C      |                                 |       | 2.78 | 9.85                        |       | 7.15     |       | Pass       |
|                  |           |     |     | NII-3       |                                 |       | 2.78 | 28.85                       |       | 7.15     |       | Pass       |



## Appendix B. Radiated Spurious Emission

|                 |                                                              |                     |         |
|-----------------|--------------------------------------------------------------|---------------------|---------|
| Test Engineer : | Luke Chang, Ken Wu, Derreck Chen, Jesse Wang, and James Chiu | Temperature :       | 21~24°C |
|                 |                                                              | Relative Humidity : | 50~55%  |

### Band 1 - 5150~5250MHz

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

| WIFI Ant. 1                 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. ( P/A ) | Pol. ( H/V ) |
|-----------------------------|------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11a<br>CH 36<br>5180MHz |      | 5148.2            | 55.84            | -18.16            | 74                    | 46.16               | 33.69                   | 11.21             | 35.22                | 296            | 298               | P                 | H            |
|                             |      | 5150              | 48.92            | -5.08             | 54                    | 39.24               | 33.69                   | 11.21             | 35.22                | 296            | 298               | A                 | H            |
|                             | *    | 5180              | 106.35           | -                 | -                     | 96.58               | 33.78                   | 11.21             | 35.22                | 296            | 298               | P                 | H            |
|                             | *    | 5180              | 98.71            | -                 | -                     | 88.94               | 33.78                   | 11.21             | 35.22                | 296            | 298               | A                 | H            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | H            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | H            |
|                             |      | 5144.82           | 58.06            | -15.94            | 74                    | 48.38               | 33.69                   | 11.21             | 35.22                | 103            | 4                 | P                 | V            |
|                             |      | 5150              | 50.98            | -3.02             | 54                    | 41.3                | 33.69                   | 11.21             | 35.22                | 103            | 4                 | A                 | V            |
|                             | *    | 5180              | 105.48           | -                 | -                     | 95.71               | 33.78                   | 11.21             | 35.22                | 103            | 4                 | P                 | V            |
|                             | *    | 5180              | 97.96            | -                 | -                     | 88.19               | 33.78                   | 11.21             | 35.22                | 103            | 4                 | A                 | V            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | V            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | V            |
| 802.11a<br>CH 44<br>5220MHz |      | 5140.66           | 49.37            | -24.63            | 74                    | 39.69               | 33.69                   | 11.21             | 35.22                | 279            | 301               | P                 | H            |
|                             |      | 5149.76           | 41.13            | -12.87            | 54                    | 31.45               | 33.69                   | 11.21             | 35.22                | 279            | 301               | A                 | H            |
|                             | *    | 5220              | 107.58           | -                 | -                     | 97.69               | 33.86                   | 11.25             | 35.22                | 279            | 301               | P                 | H            |
|                             | *    | 5220              | 99.59            | -                 | -                     | 89.7                | 33.86                   | 11.25             | 35.22                | 279            | 301               | A                 | H            |
|                             |      | 5413.92           | 50.41            | -23.59            | 74                    | 39.37               | 34.38                   | 11.89             | 35.23                | 279            | 301               | P                 | H            |
|                             |      | 5430.24           | 42.99            | -11.01            | 54                    | 31.91               | 34.43                   | 11.89             | 35.24                | 279            | 301               | A                 | H            |
|                             |      | 5070.46           | 49.72            | -24.28            | 74                    | 40.32               | 33.47                   | 11.14             | 35.21                | 103            | 2                 | P                 | V            |
|                             |      | 5148.46           | 41.64            | -12.36            | 54                    | 31.96               | 33.69                   | 11.21             | 35.22                | 103            | 2                 | A                 | V            |
|                             | *    | 5220              | 105.97           | -                 | -                     | 96.08               | 33.86                   | 11.25             | 35.22                | 103            | 2                 | P                 | V            |
|                             | *    | 5220              | 98.39            | -                 | -                     | 88.5                | 33.86                   | 11.25             | 35.22                | 103            | 2                 | A                 | V            |
|                             |      | 5369.52           | 48.42            | -25.58            | 74                    | 37.64               | 34.25                   | 11.76             | 35.23                | 103            | 2                 | P                 | V            |
|                             |      | 5429.76           | 41.59            | -12.41            | 54                    | 30.51               | 34.43                   | 11.89             | 35.24                | 103            | 2                 | A                 | V            |



|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 48<br/>5240MHz</b> |                                                                                             | 5032.5  | 50.02  | -23.98 | 74 | 40.73 | 33.39 | 11.11 | 35.21 | 292 | 300 | P | H |
|                                      |                                                                                             | 5088.92 | 40.85  | -13.15 | 54 | 31.37 | 33.56 | 11.14 | 35.22 | 292 | 300 | A | H |
|                                      | *                                                                                           | 5240    | 108    | -      | -  | 97.93 | 33.91 | 11.38 | 35.22 | 292 | 300 | P | H |
|                                      | *                                                                                           | 5240    | 100.32 | -      | -  | 90.25 | 33.91 | 11.38 | 35.22 | 292 | 300 | A | H |
|                                      |                                                                                             | 5453.52 | 50.14  | -23.86 | 74 | 39.02 | 34.47 | 11.89 | 35.24 | 292 | 300 | P | H |
|                                      |                                                                                             | 5451.12 | 43.15  | -10.85 | 54 | 32.03 | 34.47 | 11.89 | 35.24 | 292 | 300 | A | H |
|                                      |                                                                                             | 5145.6  | 49.18  | -24.82 | 74 | 39.5  | 33.69 | 11.21 | 35.22 | 103 | 2   | P | V |
|                                      |                                                                                             | 5146.12 | 40.92  | -13.08 | 54 | 31.24 | 33.69 | 11.21 | 35.22 | 103 | 2   | A | V |
|                                      | *                                                                                           | 5240    | 106.3  | -      | -  | 96.23 | 33.91 | 11.38 | 35.22 | 103 | 2   | P | V |
|                                      | *                                                                                           | 5240    | 98.78  | -      | -  | 88.71 | 33.91 | 11.38 | 35.22 | 103 | 2   | A | V |
|                                      |                                                                                             | 5444.4  | 48.9   | -25.1  | 74 | 37.82 | 34.43 | 11.89 | 35.24 | 103 | 2   | P | V |
|                                      |                                                                                             | 5452.08 | 41.9   | -12.1  | 54 | 30.78 | 34.47 | 11.89 | 35.24 | 103 | 2   | A | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 36<br>5180MHz |                                                                                             | 10360                | 44.29               | -29.71                  | 74                          | 47.24                     | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15540                | 43.75               | -30.25                  | 74                          | 40.25                     | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10360                | 44.27               | -29.73                  | 74                          | 47.22                     | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15540                | 44.27               | -29.73                  | 74                          | 40.77                     | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 44<br>5220MHz |                                                                                             | 10440                | 44.75               | -29.25                  | 74                          | 47.58                     | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15660                | 43.08               | -30.92                  | 74                          | 39.2                      | 41.31                         | 19.68                   | 57.11                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10440                | 45.1                | -28.9                   | 74                          | 47.93                     | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15660                | 44.6                | -29.4                   | 74                          | 40.72                     | 41.31                         | 19.68                   | 57.11                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 48<br>5240MHz |                                                                                             | 10480                | 45.17               | -28.83                  | 74                          | 47.92                     | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15720                | 45.39               | -28.61                  | 74                          | 41.28                     | 41.45                         | 19.73                   | 57.07                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10480                | 44.84               | -29.16                  | 74                          | 47.59                     | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15720                | 44.52               | -29.48                  | 74                          | 40.41                     | 41.45                         | 19.73                   | 57.07                      | 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

## Band 2 - 5250~5350MHz

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

| WIFI Ant.                   | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|-----------------------------|------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|---------|
| 1                           |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )     | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5015.08   | 49.04      | -24.96     | 74         | 39.84      | 33.34          | 11.07      | 35.21         | 275     | 302       | P         | H       |
|                             |      | 5141.96   | 40.74      | -13.26     | 54         | 31.06      | 33.69          | 11.21      | 35.22         | 275     | 302       | A         | H       |
|                             | *    | 5260      | 108.21     | -          | -          | 98.07      | 33.99          | 11.38      | 35.23         | 275     | 302       | P         | H       |
|                             | *    | 5260      | 100.48     | -          | -          | 90.34      | 33.99          | 11.38      | 35.23         | 275     | 302       | A         | H       |
|                             |      | 5364.96   | 49.42      | -24.58     | 74         | 38.64      | 34.25          | 11.76      | 35.23         | 275     | 302       | P         | H       |
|                             |      | 5447.28   | 41.56      | -12.44     | 54         | 30.44      | 34.47          | 11.89      | 35.24         | 275     | 302       | A         | H       |
|                             |      | 5124.28   | 49.68      | -24.32     | 74         | 40.07      | 33.65          | 11.18      | 35.22         | 101     | 3         | P         | V       |
|                             |      | 5111.02   | 40.88      | -13.12     | 54         | 31.32      | 33.6           | 11.18      | 35.22         | 101     | 3         | A         | V       |
|                             | *    | 5260      | 106.31     | -          | -          | 96.17      | 33.99          | 11.38      | 35.23         | 101     | 3         | P         | V       |
|                             | *    | 5260      | 98.8       | -          | -          | 88.66      | 33.99          | 11.38      | 35.23         | 101     | 3         | A         | V       |
|                             |      | 5436      | 49.36      | -24.64     | 74         | 38.28      | 34.43          | 11.89      | 35.24         | 101     | 3         | P         | V       |
|                             |      | 5456.88   | 40.76      | -13.24     | 54         | 29.64      | 34.47          | 11.89      | 35.24         | 101     | 3         | A         | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5040.04   | 50.25      | -23.75     | 74         | 40.92      | 33.43          | 11.11      | 35.21         | 300     | 302       | P         | H       |
|                             |      | 5144.04   | 40.62      | -13.38     | 54         | 30.94      | 33.69          | 11.21      | 35.22         | 300     | 302       | A         | H       |
|                             | *    | 5300      | 108.1      | -          | -          | 97.74      | 34.08          | 11.51      | 35.23         | 300     | 302       | P         | H       |
|                             | *    | 5300      | 100.43     | -          | -          | 90.07      | 34.08          | 11.51      | 35.23         | 300     | 302       | A         | H       |
|                             |      | 5350.56   | 54.45      | -19.55     | 74         | 43.71      | 34.21          | 11.76      | 35.23         | 300     | 302       | P         | H       |
|                             |      | 5350.56   | 46.72      | -7.28      | 54         | 35.98      | 34.21          | 11.76      | 35.23         | 300     | 302       | A         | H       |
|                             |      | 5073.32   | 49.38      | -24.62     | 74         | 39.93      | 33.52          | 11.14      | 35.21         | 101     | 3         | P         | V       |
|                             |      | 5127.14   | 40.56      | -13.44     | 54         | 30.95      | 33.65          | 11.18      | 35.22         | 101     | 3         | A         | V       |
|                             | *    | 5300      | 105.86     | -          | -          | 95.5       | 34.08          | 11.51      | 35.23         | 101     | 3         | P         | V       |
|                             | *    | 5300      | 98.42      | -          | -          | 88.06      | 34.08          | 11.51      | 35.23         | 101     | 3         | A         | V       |
|                             |      | 5350.32   | 52.12      | -21.88     | 74         | 41.38      | 34.21          | 11.76      | 35.23         | 101     | 3         | P         | V       |
|                             |      | 5350.08   | 44.43      | -9.57      | 54         | 33.69      | 34.21          | 11.76      | 35.23         | 101     | 3         | A         | V       |



|                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 107.92 | -      | -  | 97.4  | 34.12 | 11.63 | 35.23 | 300 | 300 | P | H |
|                                                  | *                                                                                           | 5320    | 100.4  | -      | -  | 89.88 | 34.12 | 11.63 | 35.23 | 300 | 300 | A | H |
|                                                  |                                                                                             | 5351.84 | 60.16  | -13.84 | 74 | 49.42 | 34.21 | 11.76 | 35.23 | 300 | 300 | P | H |
|                                                  |                                                                                             | 5350.08 | 53.6   | -1.4   | 54 | 41.86 | 34.21 | 11.76 | 35.23 | 300 | 300 | A | H |
|                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                                  | *                                                                                           | 5320    | 106.7  | -      | -  | 96.18 | 34.12 | 11.63 | 35.23 | 103 | 3   | P | V |
|                                                  | *                                                                                           | 5320    | 98.1   | -      | -  | 87.58 | 34.12 | 11.63 | 35.23 | 103 | 3   | A | V |
|                                                  |                                                                                             | 5353.12 | 58.74  | -15.26 | 74 | 48    | 34.21 | 11.76 | 35.23 | 103 | 3   | P | V |
|                                                  |                                                                                             | 5350.08 | 50.21  | -3.79  | 54 | 39.47 | 34.21 | 11.76 | 35.23 | 103 | 3   | A | V |
|                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
|                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 52<br>5260MHz |                                                                                             | 10520                | 44.62               | -29.38                  | 74                          | 47.35                     | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15780                | 45.6                | -28.4                   | 74                          | 41.33                     | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10520                | 44.63               | -29.37                  | 74                          | 47.36                     | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15780                | 45.35               | -28.65                  | 74                          | 41.08                     | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 60<br>5300MHz |                                                                                             | 10600                | 44.07               | -29.93                  | 74                          | 46.8                      | 39.06                         | 17.17                   | 58.96                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15900                | 46.15               | -27.85                  | 74                          | 41.5                      | 41.79                         | 19.82                   | 56.96                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10600                | 43.81               | -30.19                  | 74                          | 46.54                     | 39.06                         | 17.17                   | 58.96                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15900                | 45.2                | -28.8                   | 74                          | 40.55                     | 41.79                         | 19.82                   | 56.96                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 64<br>5320MHz |                                                                                             | 10640                | 43.77               | -30.23                  | 74                          | 46.5                      | 39.01                         | 17.17                   | 58.91                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15960                | 44.52               | -29.48                  | 74                          | 39.64                     | 41.93                         | 19.87                   | 56.92                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10640                | 43.11               | -30.89                  | 74                          | 45.84                     | 39.01                         | 17.17                   | 58.91                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15960                | 43.94               | -30.06                  | 74                          | 39.06                     | 41.93                         | 19.87                   | 56.92                      | 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

## Band 3 - 5470~5725MHz

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

| WIFI Ant.                    | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|------------------------------|------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|---------|
| 1                            |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )     | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5459.44   | 58.55      | -15.45     | 74         | 47.35      | 34.55          | 11.89      | 35.24         | 287     | 300       | P         | H       |
|                              |      | 5468.88   | 65.55      | -2.65      | 68.2       | 54.33      | 34.57          | 11.89      | 35.24         | 287     | 300       | P         | H       |
|                              |      | 5460      | 51.82      | -2.18      | 54         | 40.62      | 34.55          | 11.89      | 35.24         | 287     | 300       | A         | H       |
|                              | *    | 5500      | 110.12     | -          | -          | 98.87      | 34.6           | 11.89      | 35.24         | 287     | 300       | P         | H       |
|                              | *    | 5500      | 102.06     | -          | -          | 90.81      | 34.6           | 11.89      | 35.24         | 287     | 300       | A         | H       |
|                              |      |           |            |            |            |            |                |            |               |         |           |           | H       |
|                              |      | 5458.8    | 57.27      | -16.73     | 74         | 46.07      | 34.55          | 11.89      | 35.24         | 218     | 306       | P         | V       |
|                              |      | 5468.88   | 60.42      | -7.78      | 68.2       | 49.2       | 34.57          | 11.89      | 35.24         | 218     | 306       | P         | V       |
|                              |      | 5459.76   | 48.96      | -5.04      | 54         | 37.76      | 34.55          | 11.89      | 35.24         | 218     | 306       | A         | V       |
|                              | *    | 5500      | 106.92     | -          | -          | 95.67      | 34.6           | 11.89      | 35.24         | 218     | 306       | P         | V       |
|                              | *    | 5500      | 98.73      | -          | -          | 87.48      | 34.6           | 11.89      | 35.24         | 218     | 306       | A         | V       |
|                              |      |           |            |            |            |            |                |            |               |         |           |           | V       |
| 802.11a<br>CH 116<br>5580MHz |      | 5448.4    | 48.63      | -25.37     | 74         | 37.51      | 34.47          | 11.89      | 35.24         | 292     | 303       | P         | H       |
|                              |      | 5461.6    | 49.29      | -18.91     | 68.2       | 38.17      | 34.47          | 11.89      | 35.24         | 292     | 303       | P         | H       |
|                              |      | 5457.28   | 41.44      | -12.56     | 54         | 30.32      | 34.47          | 11.89      | 35.24         | 292     | 303       | A         | H       |
|                              | *    | 5580      | 110.3      | -          | -          | 99.07      | 34.6           | 11.89      | 35.26         | 292     | 303       | P         | H       |
|                              | *    | 5580      | 102.63     | -          | -          | 91.4       | 34.6           | 11.89      | 35.26         | 292     | 303       | A         | H       |
|                              |      | 5764.825  | 49.69      | -18.51     | 68.2       | 38.27      | 34.6           | 12.11      | 35.29         | 292     | 303       | P         | H       |
|                              |      | 5455.6    | 49.49      | -24.51     | 74         | 38.37      | 34.47          | 11.89      | 35.24         | 102     | 354       | P         | V       |
|                              |      | 5463.76   | 49.82      | -18.38     | 68.2       | 38.66      | 34.51          | 11.89      | 35.24         | 102     | 354       | P         | V       |
|                              |      | 5457.04   | 40.89      | -13.11     | 54         | 29.77      | 34.47          | 11.89      | 35.24         | 102     | 354       | A         | V       |
|                              | *    | 5580      | 106.93     | -          | -          | 95.7       | 34.6           | 11.89      | 35.26         | 102     | 354       | P         | V       |
|                              | *    | 5580      | 99.18      | -          | -          | 87.95      | 34.6           | 11.89      | 35.26         | 102     | 354       | A         | V       |
|                              |      | 5743.825  | 50.93      | -17.27     | 68.2       | 39.51      | 34.6           | 12.11      | 35.29         | 102     | 354       | P         | V       |



|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   |   |
|---------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|------|-------|------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *                                                                                           | 5700    | 108.45 | -     | -    | 97.13 | 34.6 | 12    | 35.28 | 282 | 303 | P | H |
|                                       | *                                                                                           | 5700    | 100.69 | -     | -    | 89.37 | 34.6 | 12    | 35.28 | 282 | 303 | A | H |
|                                       |                                                                                             | 5726.04 | 63.14  | -5.06 | 68.2 | 51.77 | 34.6 | 12.06 | 35.29 | 282 | 303 | P | H |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                       | *                                                                                           | 5700    | 104.84 | -     | -    | 93.52 | 34.6 | 12    | 35.28 | 112 | 298 | P | V |
|                                       | *                                                                                           | 5700    | 97.09  | -     | -    | 85.77 | 34.6 | 12    | 35.28 | 112 | 298 | A | V |
|                                       |                                                                                             | 5726.04 | 59.71  | -8.49 | 68.2 | 48.34 | 34.6 | 12.06 | 35.29 | 112 | 298 | P | V |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | V |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | V |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | V |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |       |      |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1            | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 100<br>5500MHz |                                                                                             | 11000                | 43.75               | -30.25                  | 74                          | 46.48                     | 38.5                          | 17.17                   | 58.4                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16500                | 47.45               | -20.75                  | 68.2                        | 40.32                     | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11000                | 44.14               | -29.86                  | 74                          | 46.87                     | 38.5                          | 17.17                   | 58.4                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16500                | 45.97               | -22.23                  | 68.2                        | 38.84                     | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 116<br>5580MHz |                                                                                             | 11160                | 42.26               | -31.74                  | 74                          | 44.36                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16740                | 46.43               | -21.77                  | 68.2                        | 39.1                      | 42.9                          | 20.39                   | 55.96                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11160                | 43.8                | -30.2                   | 74                          | 45.9                      | 38.77                         | 17.16                   | 58.03                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16740                | 45.92               | -22.28                  | 68.2                        | 38.59                     | 42.9                          | 20.39                   | 55.96                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 140<br>5700MHz |                                                                                             | 11400                | 43.6                | -30.4                   | 74                          | 44.82                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17100                | 46.26               | -27.74                  | 74                          | 38.81                     | 42.64                         | 20.65                   | 55.84                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11400                | 43.56               | -30.44                  | 74                          | 44.78                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17100                | 46.75               | -27.25                  | 74                          | 39.3                      | 42.64                         | 20.65                   | 55.84                      | 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

## Emission below 1GHz

## WIFI 802.11a (LF @ 3m)

| WIFI Ant.     | Note                                                                       | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|---------------|----------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|-------|
| 1             |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )     | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| 802.11a<br>LF |                                                                            | 144.75    | 38.75      | -4.75      | 43.5       | 50.61      | 17.86          | 1.78       | 31.5          | 100     | 350       | P         | H     |
|               |                                                                            | 224.4     | 30.29      | -15.71     | 46         | 42.93      | 16.72          | 2.07       | 31.43         |         |           | P         | H     |
|               |                                                                            | 290.82    | 34.68      | -11.32     | 46         | 43.94      | 19.71          | 2.32       | 31.29         |         |           | P         | H     |
|               |                                                                            | 454       | 26.58      | -19.42     | 46         | 31.6       | 23.18          | 2.89       | 31.09         |         |           | P         | H     |
|               |                                                                            | 752.2     | 30.41      | -15.59     | 46         | 30.01      | 27.23          | 3.82       | 30.65         |         |           | P         | H     |
|               |                                                                            | 981.1     | 34.43      | -19.57     | 54         | 30.71      | 30.26          | 3.98       | 30.52         |         |           | P         | H     |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H     |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H     |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H     |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H     |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H     |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H     |
|               |                                                                            | 77.52     | 34.47      | -5.53      | 40         | 51.18      | 13.57          | 1.28       | 31.56         | 100     | 75        | P         | V     |
|               |                                                                            | 99.93     | 32.71      | -10.79     | 43.5       | 46.55      | 16.4           | 1.28       | 31.52         |         |           | P         | V     |
|               |                                                                            | 219.54    | 29.4       | -16.6      | 46         | 42.58      | 16.39          | 1.87       | 31.44         |         |           | P         | V     |
|               |                                                                            | 330.8     | 28.36      | -17.64     | 46         | 36.53      | 20.66          | 2.41       | 31.24         |         |           | P         | V     |
|               |                                                                            | 646.5     | 28.73      | -17.27     | 46         | 30.06      | 25.87          | 3.57       | 30.77         |         |           | P         | V     |
|               |                                                                            | 986.7     | 33.46      | -20.54     | 54         | 29.73      | 30.27          | 3.98       | 30.52         |         |           | P         | V     |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V     |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V     |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V     |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V     |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V     |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V     |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V     |
| Remark        | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |            |            |            |                |            |               |         |           |           |       |



**Note symbol**

|     |                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.                                                                                                                   |
| P/A | <b>Peak</b> or <b>Average</b>                                                                                                                            |
| H/V | <b>Horizontal</b> or <b>Vertical</b>                                                                                                                     |



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

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

1. Level(dBμV/m) =

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

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

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



## Appendix B. Radiated Spurious Emission

|                 |                                                              |                     |         |
|-----------------|--------------------------------------------------------------|---------------------|---------|
| Test Engineer : | Luke Chang, Ken Wu, Derreck Chen, Jesse Wang, and James Chiu | Temperature :       | 21~24°C |
|                 |                                                              | Relative Humidity : | 50~55%  |

### Band 1 - 5150~5250MHz

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

| WIFI Ant. 2                 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. ( P/A ) | Pol. ( H/V ) |
|-----------------------------|------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11a<br>CH 36<br>5180MHz |      | 5148.72           | 60.96            | -13.04            | 74                    | 51.28               | 33.69                   | 11.21             | 35.22                | 100            | 347               | P                 | H            |
|                             |      | 5150              | 51.89            | -2.11             | 54                    | 42.21               | 33.69                   | 11.21             | 35.22                | 100            | 347               | A                 | H            |
|                             | *    | 5180              | 107.52           | -                 | -                     | 97.75               | 33.78                   | 11.21             | 35.22                | 100            | 347               | P                 | H            |
|                             | *    | 5180              | 99.42            | -                 | -                     | 89.65               | 33.78                   | 11.21             | 35.22                | 100            | 347               | A                 | H            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | H            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | H            |
|                             |      | 5145.6            | 58.24            | -15.76            | 74                    | 48.56               | 33.69                   | 11.21             | 35.22                | 100            | 62                | P                 | V            |
|                             |      | 5150              | 50.86            | -3.14             | 54                    | 41.18               | 33.69                   | 11.21             | 35.22                | 100            | 62                | A                 | V            |
|                             | *    | 5180              | 106.44           | -                 | -                     | 96.67               | 33.78                   | 11.21             | 35.22                | 100            | 62                | P                 | V            |
|                             | *    | 5180              | 98.27            | -                 | -                     | 88.5                | 33.78                   | 11.21             | 35.22                | 100            | 62                | A                 | V            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | V            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | V            |
| 802.11a<br>CH 44<br>5220MHz |      | 5137.28           | 50.53            | -23.47            | 74                    | 40.92               | 33.65                   | 11.18             | 35.22                | 100            | 348               | P                 | H            |
|                             |      | 5150              | 42.6             | -11.4             | 54                    | 32.92               | 33.69                   | 11.21             | 35.22                | 100            | 348               | A                 | H            |
|                             | *    | 5220              | 107.69           | -                 | -                     | 97.8                | 33.86                   | 11.25             | 35.22                | 100            | 348               | P                 | H            |
|                             | *    | 5220              | 99.59            | -                 | -                     | 89.7                | 33.86                   | 11.25             | 35.22                | 100            | 348               | A                 | H            |
|                             |      | 5437.44           | 48.8             | -25.2             | 74                    | 37.72               | 34.43                   | 11.89             | 35.24                | 100            | 348               | P                 | H            |
|                             |      | 5440.8            | 41.48            | -12.52            | 54                    | 30.4                | 34.43                   | 11.89             | 35.24                | 100            | 348               | A                 | H            |
|                             |      | 5147.68           | 50.41            | -23.59            | 74                    | 40.73               | 33.69                   | 11.21             | 35.22                | 100            | 63                | P                 | V            |
|                             |      | 5146.9            | 42.17            | -11.83            | 54                    | 32.49               | 33.69                   | 11.21             | 35.22                | 100            | 63                | A                 | V            |
|                             | *    | 5220              | 107.65           | -                 | -                     | 97.76               | 33.86                   | 11.25             | 35.22                | 100            | 63                | P                 | V            |
|                             | *    | 5220              | 99.59            | -                 | -                     | 89.7                | 33.86                   | 11.25             | 35.22                | 100            | 63                | A                 | V            |
|                             |      | 5419.92           | 49.34            | -24.66            | 74                    | 38.31               | 34.38                   | 11.89             | 35.24                | 100            | 63                | P                 | V            |
|                             |      | 5440.32           | 40.96            | -13.04            | 54                    | 29.88               | 34.43                   | 11.89             | 35.24                | 100            | 63                | A                 | V            |



|                                                  |                                                                                             |         |        |        |    |       |       |       |       |     |    |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|----|---|---|
| <b>802.11a</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5099.32 | 50.08  | -23.92 | 74 | 40.6  | 33.56 | 11.14 | 35.22 | 105 | 5  | P | H |
|                                                  |                                                                                             | 5148.2  | 41.3   | -12.7  | 54 | 31.62 | 33.69 | 11.21 | 35.22 | 105 | 5  | A | H |
|                                                  | *                                                                                           | 5240    | 109.08 | -      | -  | 99.01 | 33.91 | 11.38 | 35.22 | 105 | 5  | P | H |
|                                                  | *                                                                                           | 5240    | 100.84 | -      | -  | 90.77 | 33.91 | 11.38 | 35.22 | 105 | 5  | A | H |
|                                                  |                                                                                             | 5351.04 | 49.7   | -24.3  | 74 | 38.96 | 34.21 | 11.76 | 35.23 | 105 | 5  | P | H |
|                                                  |                                                                                             | 5456.64 | 41.57  | -12.43 | 54 | 30.45 | 34.47 | 11.89 | 35.24 | 105 | 5  | A | H |
|                                                  |                                                                                             | 5144.04 | 50.39  | -23.61 | 74 | 40.71 | 33.69 | 11.21 | 35.22 | 100 | 64 | P | V |
|                                                  |                                                                                             | 5130.26 | 41.11  | -12.89 | 54 | 31.5  | 33.65 | 11.18 | 35.22 | 100 | 64 | A | V |
|                                                  | *                                                                                           | 5240    | 108.35 | -      | -  | 98.28 | 33.91 | 11.38 | 35.22 | 100 | 64 | P | V |
|                                                  | *                                                                                           | 5240    | 100.11 | -      | -  | 90.04 | 33.91 | 11.38 | 35.22 | 100 | 64 | A | V |
|                                                  |                                                                                             | 5399.28 | 49.37  | -24.63 | 74 | 38.37 | 34.34 | 11.89 | 35.23 | 100 | 64 | P | V |
|                                                  |                                                                                             | 5451.6  | 41.32  | -12.68 | 54 | 30.2  | 34.47 | 11.89 | 35.24 | 100 | 64 | A | V |
| Remark                                           | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |    |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>2           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 36<br>5180MHz |                                                                                             | 10360                | 44.48               | -29.52                  | 74                          | 47.43                   | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 15540                | 45.04               | -28.96                  | 74                          | 41.54                   | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             | 10360                | 44.59               | -29.41                  | 74                          | 47.54                   | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             | 15540                | 45.43               | -28.57                  | 74                          | 41.93                   | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| 802.11a<br>CH 44<br>5220MHz |                                                                                             | 10440                | 44.98               | -29.02                  | 74                          | 47.81                   | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 15660                | 46.51               | -27.49                  | 74                          | 42.63                   | 41.31                         | 19.68                   | 57.11                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             | 10440                | 45.11               | -28.89                  | 74                          | 47.94                   | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             | 15660                | 46.78               | -27.22                  | 74                          | 42.9                    | 41.31                         | 19.68                   | 57.11                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                             |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| 802.11a<br>CH 48<br>5240MHz |                                                                                             | 10480                | 45.11               | -28.89                  | 74                          | 47.86                   | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             | 15720                | 46.32               | -27.68                  | 74                          | 42.21                   | 41.45                         | 19.73                   | 57.07                      | 100                  | 0                       | P                     | H             |
|                             |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             | 10480                | 44.76               | -29.24                  | 74                          | 47.51                   | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                     | V             |
|                             |                                                                                             | 15720                | 47.25               | -26.75                  | 74                          | 43.14                   | 41.45                         | 19.73                   | 57.07                      | 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

## Band 2 - 5250~5350MHz

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

| WIFI Ant.                   | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|-----------------------------|------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|---------|
| 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 |      | 5047.84   | 49.47      | -24.53     | 74         | 40.14      | 33.43          | 11.11      | 35.21         | 105     | 4         | P         | H       |
|                             |      | 5128.44   | 41.05      | -12.95     | 54         | 31.44      | 33.65          | 11.18      | 35.22         | 105     | 4         | A         | H       |
|                             | *    | 5260      | 109.33     | -          | -          | 99.19      | 33.99          | 11.38      | 35.23         | 105     | 4         | P         | H       |
|                             | *    | 5260      | 101.11     | -          | -          | 90.97      | 33.99          | 11.38      | 35.23         | 105     | 4         | A         | H       |
|                             |      | 5415.6    | 49.44      | -24.56     | 74         | 38.4       | 34.38          | 11.89      | 35.23         | 105     | 4         | P         | H       |
|                             |      | 5414.16   | 41.16      | -12.84     | 54         | 30.12      | 34.38          | 11.89      | 35.23         | 105     | 4         | A         | H       |
|                             |      | 5135.72   | 50.13      | -23.87     | 74         | 40.52      | 33.65          | 11.18      | 35.22         | 100     | 64        | P         | V       |
|                             |      | 5132.6    | 40.98      | -13.02     | 54         | 31.37      | 33.65          | 11.18      | 35.22         | 100     | 64        | A         | V       |
|                             | *    | 5260      | 108.5      | -          | -          | 98.36      | 33.99          | 11.38      | 35.23         | 100     | 64        | P         | V       |
|                             | *    | 5260      | 100.13     | -          | -          | 89.99      | 33.99          | 11.38      | 35.23         | 100     | 64        | A         | V       |
|                             |      | 5449.68   | 50.55      | -23.45     | 74         | 39.43      | 34.47          | 11.89      | 35.24         | 100     | 64        | P         | V       |
|                             |      | 5444.16   | 40.82      | -13.18     | 54         | 29.74      | 34.43          | 11.89      | 35.24         | 100     | 64        | A         | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5111.8    | 49.86      | -24.14     | 74         | 40.3       | 33.6           | 11.18      | 35.22         | 100     | 356       | P         | H       |
|                             |      | 5121.68   | 41.03      | -12.97     | 54         | 31.47      | 33.6           | 11.18      | 35.22         | 100     | 356       | A         | H       |
|                             | *    | 5300      | 108.59     | -          | -          | 98.23      | 34.08          | 11.51      | 35.23         | 100     | 356       | P         | H       |
|                             | *    | 5300      | 100.24     | -          | -          | 89.88      | 34.08          | 11.51      | 35.23         | 100     | 356       | A         | H       |
|                             |      | 5351.52   | 53.8       | -20.2      | 74         | 43.06      | 34.21          | 11.76      | 35.23         | 100     | 356       | P         | H       |
|                             |      | 5350.08   | 46.52      | -7.48      | 54         | 35.78      | 34.21          | 11.76      | 35.23         | 100     | 356       | A         | H       |
|                             |      | 5105.3    | 49.43      | -24.57     | 74         | 39.91      | 33.56          | 11.18      | 35.22         | 130     | 23        | P         | V       |
|                             |      | 5130.78   | 40.87      | -13.13     | 54         | 31.26      | 33.65          | 11.18      | 35.22         | 130     | 23        | A         | V       |
|                             | *    | 5300      | 108.79     | -          | -          | 98.43      | 34.08          | 11.51      | 35.23         | 130     | 23        | P         | V       |
|                             | *    | 5300      | 100.47     | -          | -          | 90.11      | 34.08          | 11.51      | 35.23         | 130     | 23        | A         | V       |
|                             |      | 5351.04   | 53.58      | -20.42     | 74         | 42.84      | 34.21          | 11.76      | 35.23         | 130     | 23        | P         | V       |
|                             |      | 5350.8    | 46.21      | -7.79      | 54         | 35.47      | 34.21          | 11.76      | 35.23         | 130     | 23        | A         | V       |



|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 64<br/>5320MHz</b> | *                                                                                           | 5320    | 108.23 | -      | -  | 97.71 | 34.12 | 11.63 | 35.23 | 105 | 356 | P | H |
|                                      | *                                                                                           | 5320    | 100.7  | -      | -  | 90.18 | 34.12 | 11.63 | 35.23 | 105 | 356 | A | H |
|                                      |                                                                                             | 5350.56 | 61.23  | -12.77 | 74 | 50.49 | 34.21 | 11.76 | 35.23 | 105 | 356 | P | H |
|                                      |                                                                                             | 5350.08 | 52.13  | -1.87  | 54 | 41.39 | 34.21 | 11.76 | 35.23 | 105 | 356 | A | H |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | H |
|                                      | *                                                                                           | 5320    | 108.39 | -      | -  | 97.87 | 34.12 | 11.63 | 35.23 | 105 | 34  | P | V |
|                                      | *                                                                                           | 5320    | 100.88 | -      | -  | 90.36 | 34.12 | 11.63 | 35.23 | 105 | 34  | A | V |
|                                      |                                                                                             | 5352    | 59.36  | -14.64 | 74 | 48.62 | 34.21 | 11.76 | 35.23 | 105 | 34  | P | V |
|                                      |                                                                                             | 5350.4  | 52.61  | -1.39  | 54 | 41.87 | 34.21 | 11.76 | 35.23 | 105 | 34  | A | V |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
|                                      |                                                                                             |         |        |        |    |       |       |       |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>2           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 52<br>5260MHz |                                                                                             | 10520                | 45.64               | -28.36                  | 74                          | 48.37                     | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15780                | 47.22               | -26.78                  | 74                          | 42.95                     | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10520                | 45.11               | -28.89                  | 74                          | 47.84                     | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15780                | 48.22               | -25.78                  | 74                          | 43.95                     | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 60<br>5300MHz |                                                                                             | 10600                | 44.66               | -29.34                  | 74                          | 47.39                     | 39.06                         | 17.17                   | 58.96                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15900                | 47.93               | -26.07                  | 74                          | 43.28                     | 41.79                         | 19.82                   | 56.96                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10600                | 44.4                | -29.6                   | 74                          | 47.13                     | 39.06                         | 17.17                   | 58.96                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15900                | 47.63               | -26.37                  | 74                          | 42.98                     | 41.79                         | 19.82                   | 56.96                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 64<br>5320MHz |                                                                                             | 10640                | 44.18               | -29.82                  | 74                          | 46.91                     | 39.01                         | 17.17                   | 58.91                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15960                | 46.4                | -27.6                   | 74                          | 41.52                     | 41.93                         | 19.87                   | 56.92                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10640                | 43.93               | -30.07                  | 74                          | 46.66                     | 39.01                         | 17.17                   | 58.91                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15960                | 46.39               | -27.61                  | 74                          | 41.51                     | 41.93                         | 19.87                   | 56.92                      | 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

## Band 3 - 5470~5725MHz

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

| WIFI Ant.                    | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|------------------------------|------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|---------|
| 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 |      | 5459.44   | 59.64      | -14.36     | 74         | 48.52      | 34.47          | 11.89      | 35.24         | 100     | 353       | P         | H       |
|                              |      | 5469.68   | 67.14      | -1.06      | 68.2       | 55.98      | 34.51          | 11.89      | 35.24         | 100     | 353       | P         | H       |
|                              |      | 5460      | 53.36      | -1.04      | 54         | 41.84      | 34.47          | 11.89      | 35.24         | 100     | 353       | A         | H       |
|                              | *    | 5500      | 109.43     | -          | -          | 98.18      | 34.6           | 11.89      | 35.24         | 100     | 353       | P         | H       |
|                              | *    | 5500      | 101.73     | -          | -          | 90.48      | 34.6           | 11.89      | 35.24         | 100     | 353       | A         | H       |
|                              |      |           |            |            |            |            |                |            |               |         |           |           | H       |
|                              |      | 5460      | 59.55      | -8.65      | 68.2       | 48.43      | 34.47          | 11.89      | 35.24         | 100     | 29        | P         | V       |
|                              |      | 5469.52   | 67.41      | -1.19      | 68.2       | 55.85      | 34.51          | 11.89      | 35.24         | 100     | 29        | P         | V       |
|                              |      | 5460      | 52.72      | -1.28      | 54         | 41.6       | 34.47          | 11.89      | 35.24         | 100     | 29        | A         | V       |
|                              | *    | 5500      | 109.74     | -          | -          | 98.49      | 34.6           | 11.89      | 35.24         | 100     | 29        | P         | V       |
|                              | *    | 5500      | 101.94     | -          | -          | 90.69      | 34.6           | 11.89      | 35.24         | 100     | 29        | A         | V       |
|                              |      |           |            |            |            |            |                |            |               |         |           |           | V       |
| 802.11a<br>CH 116<br>5580MHz |      | 5391.52   | 49.17      | -24.83     | 74         | 38.21      | 34.3           | 11.89      | 35.23         | 100     | 354       | P         | H       |
|                              |      | 5465.44   | 49.5       | -18.7      | 68.2       | 38.34      | 34.51          | 11.89      | 35.24         | 100     | 354       | P         | H       |
|                              |      | 5455.36   | 41.1       | -12.9      | 54         | 29.98      | 34.47          | 11.89      | 35.24         | 100     | 354       | A         | H       |
|                              | *    | 5580      | 109.02     | -          | -          | 97.79      | 34.6           | 11.89      | 35.26         | 100     | 354       | P         | H       |
|                              | *    | 5580      | 101.34     | -          | -          | 90.11      | 34.6           | 11.89      | 35.26         | 100     | 354       | A         | H       |
|                              |      | 5749.95   | 50.38      | -17.82     | 68.2       | 38.96      | 34.6           | 12.11      | 35.29         | 100     | 354       | P         | H       |
|                              |      | 5386.48   | 49.48      | -24.52     | 74         | 38.52      | 34.3           | 11.89      | 35.23         | 108     | 61        | P         | V       |
|                              |      | 5462.56   | 49.17      | -19.03     | 68.2       | 38.01      | 34.51          | 11.89      | 35.24         | 108     | 61        | P         | V       |
|                              |      | 5458.24   | 40.98      | -13.02     | 54         | 29.86      | 34.47          | 11.89      | 35.24         | 108     | 61        | A         | V       |
|                              | *    | 5580      | 109.13     | -          | -          | 97.9       | 34.6           | 11.89      | 35.26         | 108     | 61        | P         | V       |
|                              | *    | 5580      | 101.57     | -          | -          | 90.34      | 34.6           | 11.89      | 35.26         | 108     | 61        | A         | V       |
|                              |      | 5760.8    | 49.33      | -18.87     | 68.2       | 37.91      | 34.6           | 12.11      | 35.29         | 108     | 61        | P         | V       |



|                                                   |                                                                                             |        |        |       |      |       |      |       |       |     |     |   |   |
|---------------------------------------------------|---------------------------------------------------------------------------------------------|--------|--------|-------|------|-------|------|-------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 140</b><br><b>5700MHz</b> | *                                                                                           | 5700   | 108.7  | -     | -    | 97.38 | 34.6 | 12    | 35.28 | 104 | 356 | P | H |
|                                                   | *                                                                                           | 5700   | 101.43 | -     | -    | 90.11 | 34.6 | 12    | 35.28 | 104 | 356 | A | H |
|                                                   |                                                                                             | 5725.8 | 63.33  | -4.87 | 68.2 | 51.96 | 34.6 | 12.06 | 35.29 | 104 | 356 | P | H |
|                                                   |                                                                                             |        |        |       |      |       |      |       |       |     |     |   | H |
|                                                   |                                                                                             |        |        |       |      |       |      |       |       |     |     |   | H |
|                                                   |                                                                                             |        |        |       |      |       |      |       |       |     |     |   | H |
|                                                   | *                                                                                           | 5700   | 109.23 | -     | -    | 97.91 | 34.6 | 12    | 35.28 | 100 | 58  | P | V |
|                                                   | *                                                                                           | 5700   | 101.51 | -     | -    | 90.19 | 34.6 | 12    | 35.28 | 100 | 58  | A | V |
|                                                   |                                                                                             | 5726.2 | 67.56  | -1.14 | 68.2 | 55.69 | 34.6 | 12.06 | 35.29 | 100 | 58  | P | V |
|                                                   |                                                                                             |        |        |       |      |       |      |       |       |     |     |   | V |
|                                                   |                                                                                             |        |        |       |      |       |      |       |       |     |     |   | V |
|                                                   |                                                                                             |        |        |       |      |       |      |       |       |     |     |   | V |
| <b>Remark</b>                                     | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |        |        |       |      |       |      |       |       |     |     |   |   |
|                                                   |                                                                                             |        |        |       |      |       |      |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>2            | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 100<br>5500MHz |                                                                                             | 11000                | 43.64               | -30.36                  | 74                          | 46.37                     | 38.5                          | 17.17                   | 58.4                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16500                | 46.91               | -21.29                  | 68.2                        | 39.78                     | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11000                | 44.75               | -29.25                  | 74                          | 47.48                     | 38.5                          | 17.17                   | 58.4                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16500                | 46.51               | -21.69                  | 68.2                        | 39.38                     | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 116<br>5580MHz |                                                                                             | 11160                | 43.97               | -30.03                  | 74                          | 46.07                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16740                | 47.01               | -21.19                  | 68.2                        | 39.68                     | 42.9                          | 20.39                   | 55.96                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11160                | 43.57               | -30.43                  | 74                          | 45.67                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16740                | 47.48               | -20.72                  | 68.2                        | 40.15                     | 42.9                          | 20.39                   | 55.96                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 140<br>5700MHz |                                                                                             | 11400                | 44.7                | -29.3                   | 74                          | 45.92                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17100                | 50.24               | -17.96                  | 68.2                        | 42.79                     | 42.64                         | 20.65                   | 55.84                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11400                | 44.24               | -29.76                  | 74                          | 45.46                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17100                | 52.75               | -15.45                  | 68.2                        | 45.3                      | 42.64                         | 20.65                   | 55.84                      | 100                  | 2                       | P                       | V               |
|                              |                                                                                             | 17100                | 42.86               | -11.14                  | 54                          | 35.41                     | 42.64                         | 20.65                   | 55.84                      | 100                  | 2                       | A                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |

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

| WIFI                         | Note                                                         | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|------------------------------|--------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                         |                                                              |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 2                            |                                                              | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a<br>CH 144<br>5720MHz | *                                                            | 5720      | 108.05     | -      | -          | 96.67  | 34.6     | 12.06  | 35.28  | 100    | 356     | P     | H     |
|                              | *                                                            | 5720      | 100.32     | -      | -          | 88.94  | 34.6     | 12.06  | 35.28  | 100    | 356     | A     | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              | *                                                            | 5720      | 109.54     | -      | -          | 98.16  | 34.6     | 12.06  | 35.28  | 102    | 58      | P     | V     |
|                              | *                                                            | 5720      | 101.92     | -      | -          | 90.54  | 34.6     | 12.06  | 35.28  | 102    | 58      | A     | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                       | 1. No other spurious found.                                  |           |            |        |            |        |          |        |        |        |         |       |       |
|                              | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |

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

| WIFI<br>Ant.<br>2                     | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11a<br/>CH 144<br/>5720MHz</b> |                                                                                             | 11440                | 44.93               | -29.07                  | 74                          | 46.03                   | 39.19                         | 17.16                   | 57.45                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 17160                | 50.01               | -23.99                  | 74                          | 42.65                   | 42.53                         | 20.7                    | 55.87                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 11440                | 44.78               | -29.22                  | 74                          | 45.88                   | 39.19                         | 17.16                   | 57.45                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 17160                | 50.53               | -23.47                  | 74                          | 43.17                   | 42.53                         | 20.7                    | 55.87                      | 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

## Emission below 1GHz

## WIFI 802.11a (LF @ 3m)

| WIFI Ant.     | Note                                                                       | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|---------------|----------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|---------|
| 2             |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )     | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>LF |                                                                            | 143.94    | 38.35      | -5.15      | 43.5       | 49.78      | 17.89          | 1.78       | 31.1          | 100     | 265       | P         | H       |
|               |                                                                            | 225.48    | 33.31      | -12.69     | 46         | 45.36      | 16.88          | 2.07       | 31            |         |           | P         | H       |
|               |                                                                            | 292.71    | 35.6       | -10.4      | 46         | 44.62      | 19.73          | 2.32       | 31.07         |         |           | P         | H       |
|               |                                                                            | 557.6     | 28.13      | -17.87     | 46         | 30.94      | 24.72          | 3.24       | 30.77         |         |           | P         | H       |
|               |                                                                            | 769.7     | 32.3       | -13.7      | 46         | 31.44      | 27.4           | 3.82       | 30.36         |         |           | P         | H       |
|               |                                                                            | 971.3     | 34.16      | -19.84     | 54         | 30.16      | 30.24          | 4.07       | 30.31         |         |           | P         | H       |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H       |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H       |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H       |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H       |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H       |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H       |
|               |                                                                            | 77.25     | 34.43      | -5.57      | 40         | 50.78      | 13.57          | 1.28       | 31.2          | 100     | 66        | P         | V       |
|               |                                                                            | 99.12     | 33.29      | -10.21     | 43.5       | 46.84      | 16.27          | 1.28       | 31.1          |         |           | P         | V       |
|               |                                                                            | 269.49    | 29.1       | -16.9      | 46         | 38.38      | 19.4           | 2.32       | 31            |         |           | P         | V       |
|               |                                                                            | 324.5     | 28.47      | -17.53     | 46         | 36.56      | 20.5           | 2.41       | 31            |         |           | P         | V       |
|               |                                                                            | 692       | 31.45      | -14.55     | 46         | 31.91      | 26.31          | 3.65       | 30.42         |         |           | P         | V       |
|               |                                                                            | 981.8     | 33.81      | -20.19     | 54         | 29.84      | 30.26          | 3.98       | 30.27         |         |           | P         | V       |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
|               |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V       |
| Remark        | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |            |            |            |                |            |               |         |           |           |         |



**Note symbol**

|     |                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.                                                                                                                   |
| P/A | <b>Peak</b> or <b>Average</b>                                                                                                                            |
| H/V | <b>Horizontal</b> or <b>Vertical</b>                                                                                                                     |



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

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 2       |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Level(dBμV/m) =

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

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

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



## Appendix B. Radiated Spurious Emission

|                 |                                                              |                     |         |
|-----------------|--------------------------------------------------------------|---------------------|---------|
| Test Engineer : | Luke Chang, Ken Wu, Derreck Chen, Jesse Wang, and James Chiu | Temperature :       | 21~24°C |
|                 |                                                              | Relative Humidity : | 50~55%  |

### Band 1 - 5150~5250MHz

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

| WIFI Ant. 1+2               | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. ( P/A ) | Pol. ( H/V ) |
|-----------------------------|------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11a<br>CH 36<br>5180MHz |      | 5145.6            | 61.33            | -12.67            | 74                    | 51.65               | 33.69                   | 11.21             | 35.22                | 172            | 96                | P                 | H            |
|                             |      | 5150              | 52.71            | -1.29             | 54                    | 43.03               | 33.69                   | 11.21             | 35.22                | 172            | 96                | A                 | H            |
|                             | *    | 5180              | 110.77           | -                 | -                     | 101                 | 33.78                   | 11.21             | 35.22                | 172            | 96                | P                 | H            |
|                             | *    | 5180              | 103.27           | -                 | -                     | 93.5                | 33.78                   | 11.21             | 35.22                | 172            | 96                | A                 | H            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | H            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | H            |
|                             |      | 5150              | 62.74            | -11.26            | 74                    | 53.06               | 33.69                   | 11.21             | 35.22                | 273            | 360               | P                 | V            |
|                             |      | 5150              | 51.71            | -2.29             | 54                    | 42.03               | 33.69                   | 11.21             | 35.22                | 273            | 360               | A                 | V            |
|                             | *    | 5180              | 110.94           | -                 | -                     | 101.17              | 33.78                   | 11.21             | 35.22                | 273            | 360               | P                 | V            |
|                             | *    | 5180              | 103.5            | -                 | -                     | 93.73               | 33.78                   | 11.21             | 35.22                | 273            | 360               | A                 | V            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | V            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | V            |
| 802.11a<br>CH 44<br>5220MHz |      | 5146.9            | 52.81            | -21.19            | 74                    | 43.13               | 33.69                   | 11.21             | 35.22                | 172            | 78                | P                 | H            |
|                             |      | 5150              | 43.96            | -10.04            | 54                    | 34.28               | 33.69                   | 11.21             | 35.22                | 172            | 78                | A                 | H            |
|                             | *    | 5220              | 110.89           | -                 | -                     | 101                 | 33.86                   | 11.25             | 35.22                | 172            | 78                | P                 | H            |
|                             | *    | 5220              | 103.57           | -                 | -                     | 93.68               | 33.86                   | 11.25             | 35.22                | 172            | 78                | A                 | H            |
|                             |      | 5432.64           | 48.87            | -25.13            | 74                    | 37.79               | 34.43                   | 11.89             | 35.24                | 172            | 78                | P                 | H            |
|                             |      | 5432.88           | 41.81            | -12.19            | 54                    | 30.73               | 34.43                   | 11.89             | 35.24                | 172            | 78                | A                 | H            |
|                             |      | 5069.16           | 49.98            | -24.02            | 74                    | 40.58               | 33.47                   | 11.14             | 35.21                | 297            | 350               | P                 | V            |
|                             |      | 5148.98           | 42.89            | -11.11            | 54                    | 33.21               | 33.69                   | 11.21             | 35.22                | 297            | 350               | A                 | V            |
|                             | *    | 5220              | 111.19           | -                 | -                     | 101.3               | 33.86                   | 11.25             | 35.22                | 297            | 350               | P                 | V            |
|                             | *    | 5220              | 103.79           | -                 | -                     | 93.9                | 33.86                   | 11.25             | 35.22                | 297            | 350               | A                 | V            |
|                             |      | 5376.24           | 50.46            | -23.54            | 74                    | 39.68               | 34.25                   | 11.76             | 35.23                | 297            | 350               | P                 | V            |
|                             |      | 5430.48           | 42.84            | -11.16            | 54                    | 31.76               | 34.43                   | 11.89             | 35.24                | 297            | 350               | A                 | V            |



|                                      |                                                                                             |         |        |        |    |        |       |       |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 48<br/>5240MHz</b> |                                                                                             | 5063.96 | 51.16  | -22.84 | 74 | 41.76  | 33.47 | 11.14 | 35.21 | 174 | 77  | P | H |
|                                      |                                                                                             | 5146.12 | 42.01  | -11.99 | 54 | 32.33  | 33.69 | 11.21 | 35.22 | 174 | 77  | A | H |
|                                      | *                                                                                           | 5240    | 110.6  | -      | -  | 100.53 | 33.91 | 11.38 | 35.22 | 174 | 77  | P | H |
|                                      | *                                                                                           | 5240    | 103.06 | -      | -  | 92.99  | 33.91 | 11.38 | 35.22 | 174 | 77  | A | H |
|                                      |                                                                                             | 5366.64 | 49.13  | -24.87 | 74 | 38.35  | 34.25 | 11.76 | 35.23 | 174 | 77  | P | H |
|                                      |                                                                                             | 5454.24 | 42.08  | -11.92 | 54 | 30.96  | 34.47 | 11.89 | 35.24 | 174 | 77  | A | H |
|                                      |                                                                                             | 5148.2  | 49.17  | -24.83 | 74 | 39.49  | 33.69 | 11.21 | 35.22 | 307 | 346 | P | V |
|                                      |                                                                                             | 5145.08 | 41.56  | -12.44 | 54 | 31.88  | 33.69 | 11.21 | 35.22 | 307 | 346 | A | V |
|                                      | *                                                                                           | 5240    | 112.13 | -      | -  | 102.06 | 33.91 | 11.38 | 35.22 | 307 | 346 | P | V |
|                                      | *                                                                                           | 5240    | 104.58 | -      | -  | 94.51  | 33.91 | 11.38 | 35.22 | 307 | 346 | A | V |
|                                      |                                                                                             | 5436.96 | 50.23  | -23.77 | 74 | 39.15  | 34.43 | 11.89 | 35.24 | 307 | 346 | P | V |
|                                      |                                                                                             | 5451.12 | 42.51  | -11.49 | 54 | 31.39  | 34.47 | 11.89 | 35.24 | 307 | 346 | A | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2         | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 36<br>5180MHz |                                                                                             | 10360                | 44.74               | -29.26                  | 74                          | 47.69                     | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15540                | 45.61               | -28.39                  | 74                          | 42.11                     | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10360                | 45.96               | -28.04                  | 74                          | 48.91                     | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15540                | 47.08               | -26.92                  | 74                          | 43.58                     | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 44<br>5220MHz |                                                                                             | 10440                | 46.15               | -27.85                  | 74                          | 48.98                     | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15660                | 46.26               | -27.74                  | 74                          | 42.38                     | 41.31                         | 19.68                   | 57.11                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10440                | 44.59               | -29.41                  | 74                          | 47.42                     | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15660                | 46.35               | -27.65                  | 74                          | 42.47                     | 41.31                         | 19.68                   | 57.11                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 48<br>5240MHz |                                                                                             | 10480                | 45.75               | -28.25                  | 74                          | 48.5                      | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15720                | 47.15               | -26.85                  | 74                          | 43.04                     | 41.45                         | 19.73                   | 57.07                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10480                | 45.69               | -28.31                  | 74                          | 48.44                     | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15720                | 47.34               | -26.66                  | 74                          | 43.23                     | 41.45                         | 19.73                   | 57.07                      | 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 VHT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 36<br>5180MHz |      | 5150                 | 60.69               | -13.31                  | 74                          | 51.01                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 29                      | P                       | H               |
|                                       |      | 5148.98              | 52.27               | -1.73                   | 54                          | 42.59                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 29                      | A                       | H               |
|                                       | *    | 5180                 | 108.07              | -                       | -                           | 98.3                      | 33.78                         | 11.21                   | 35.22                      | 100                  | 29                      | P                       | H               |
|                                       | *    | 5180                 | 101.14              | -                       | -                           | 91.37                     | 33.78                         | 11.21                   | 35.22                      | 100                  | 29                      | A                       | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      | 5149.76              | 60.56               | -13.44                  | 74                          | 50.88                     | 33.69                         | 11.21                   | 35.22                      | 174                  | 298                     | P                       | V               |
|                                       |      | 5150                 | 53.35               | -1.65                   | 54                          | 42.67                     | 33.69                         | 11.21                   | 35.22                      | 174                  | 298                     | A                       | V               |
|                                       | *    | 5180                 | 107.96              | -                       | -                           | 98.19                     | 33.78                         | 11.21                   | 35.22                      | 174                  | 298                     | P                       | V               |
|                                       | *    | 5180                 | 99.99               | -                       | -                           | 90.22                     | 33.78                         | 11.21                   | 35.22                      | 174                  | 298                     | A                       | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 44<br>5220MHz |      | 5136.76              | 50.95               | -23.05                  | 74                          | 41.34                     | 33.65                         | 11.18                   | 35.22                      | 100                  | 31                      | P                       | H               |
|                                       |      | 5150                 | 43.96               | -10.04                  | 54                          | 34.28                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 31                      | A                       | H               |
|                                       | *    | 5220                 | 109.44              | -                       | -                           | 99.55                     | 33.86                         | 11.25                   | 35.22                      | 100                  | 31                      | P                       | H               |
|                                       | *    | 5220                 | 102                 | -                       | -                           | 92.11                     | 33.86                         | 11.25                   | 35.22                      | 100                  | 31                      | A                       | H               |
|                                       |      | 5351.76              | 49.73               | -24.27                  | 74                          | 38.99                     | 34.21                         | 11.76                   | 35.23                      | 100                  | 31                      | P                       | H               |
|                                       |      | 5433.36              | 41.2                | -12.8                   | 54                          | 30.12                     | 34.43                         | 11.89                   | 35.24                      | 100                  | 31                      | A                       | H               |
|                                       |      | 5147.94              | 51.44               | -22.56                  | 74                          | 41.76                     | 33.69                         | 11.21                   | 35.22                      | 180                  | 310                     | P                       | V               |
|                                       |      | 5149.76              | 42.89               | -11.11                  | 54                          | 33.21                     | 33.69                         | 11.21                   | 35.22                      | 180                  | 310                     | A                       | V               |
|                                       | *    | 5220                 | 109.44              | -                       | -                           | 99.55                     | 33.86                         | 11.25                   | 35.22                      | 180                  | 310                     | P                       | V               |
|                                       | *    | 5220                 | 102.1               | -                       | -                           | 92.21                     | 33.86                         | 11.25                   | 35.22                      | 180                  | 310                     | A                       | V               |
|                                       |      | 5433.36              | 50.87               | -23.13                  | 74                          | 39.79                     | 34.43                         | 11.89                   | 35.24                      | 180                  | 310                     | P                       | V               |
|                                       |      | 5430.24              | 41.97               | -12.03                  | 54                          | 30.89                     | 34.43                         | 11.89                   | 35.24                      | 180                  | 310                     | A                       | V               |



|                                                                   |                                                                                             |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5086.84 | 50.25  | -23.75 | 74 | 40.81  | 33.52 | 11.14 | 35.22 | 100 | 30  | P | H |
|                                                                   |                                                                                             | 5149.76 | 41.88  | -12.12 | 54 | 32.2   | 33.69 | 11.21 | 35.22 | 100 | 30  | A | H |
|                                                                   | *                                                                                           | 5240    | 109.3  | -      | -  | 99.23  | 33.91 | 11.38 | 35.22 | 100 | 30  | P | H |
|                                                                   | *                                                                                           | 5240    | 101.96 | -      | -  | 91.89  | 33.91 | 11.38 | 35.22 | 100 | 30  | A | H |
|                                                                   |                                                                                             | 5452.8  | 48.7   | -25.3  | 74 | 37.58  | 34.47 | 11.89 | 35.24 | 100 | 30  | P | H |
|                                                                   |                                                                                             | 5454.24 | 41.43  | -12.57 | 54 | 30.31  | 34.47 | 11.89 | 35.24 | 100 | 30  | A | H |
|                                                                   |                                                                                             | 5093.6  | 50.1   | -23.9  | 74 | 40.62  | 33.56 | 11.14 | 35.22 | 168 | 309 | P | V |
|                                                                   |                                                                                             | 5148.2  | 41.36  | -12.64 | 54 | 31.68  | 33.69 | 11.21 | 35.22 | 168 | 309 | A | V |
|                                                                   | *                                                                                           | 5240    | 110.18 | -      | -  | 100.11 | 33.91 | 11.38 | 35.22 | 168 | 309 | P | V |
|                                                                   | *                                                                                           | 5240    | 102.29 | -      | -  | 92.22  | 33.91 | 11.38 | 35.22 | 168 | 309 | A | V |
|                                                                   |                                                                                             | 5450.88 | 50.08  | -23.92 | 74 | 38.96  | 34.47 | 11.89 | 35.24 | 168 | 309 | P | V |
|                                                                   |                                                                                             | 5451.6  | 42.22  | -11.78 | 54 | 31.1   | 34.47 | 11.89 | 35.24 | 168 | 309 | A | V |
| <b>Remark</b>                                                     | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT20<br>CH 36<br>5180MHz |                                                                                             | 10360                | 45.24               | -28.76                  | 74                          | 48.19                   | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15540                | 46.22               | -27.78                  | 74                          | 42.72                   | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10360                | 45.77               | -28.23                  | 74                          | 48.72                   | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15540                | 45.72               | -28.28                  | 74                          | 42.22                   | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT20<br>CH 44<br>5220MHz |                                                                                             | 10440                | 45.84               | -28.16                  | 74                          | 48.67                   | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15660                | 46.37               | -27.63                  | 74                          | 42.49                   | 41.31                         | 19.68                   | 57.11                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10440                | 45.88               | -28.12                  | 74                          | 48.71                   | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15660                | 46.06               | -27.94                  | 74                          | 42.18                   | 41.31                         | 19.68                   | 57.11                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT20<br>CH 48<br>5240MHz |                                                                                             | 10480                | 44.92               | -29.08                  | 74                          | 47.67                   | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15720                | 46.67               | -27.33                  | 74                          | 42.56                   | 41.45                         | 19.73                   | 57.07                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10480                | 45.14               | -28.86                  | 74                          | 47.89                   | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15720                | 46.93               | -27.07                  | 74                          | 42.82                   | 41.45                         | 19.73                   | 57.07                      | 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 VHT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 38<br>5190MHz |                                                                                             | 5148.46              | 63.63               | -10.37                  | 74                          | 53.95                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 33                      | P                       | H               |
|                                       |                                                                                             | 5148.46              | 53.54               | -1.46                   | 54                          | 42.86                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 33                      | P                       | H               |
|                                       | *                                                                                           | 5190                 | 103.09              | -                       | -                           | 93.28                     | 33.78                         | 11.25                   | 35.22                      | 100                  | 33                      | P                       | H               |
|                                       | *                                                                                           | 5190                 | 96.07               | -                       | -                           | 86.26                     | 33.78                         | 11.25                   | 35.22                      | 100                  | 33                      | A                       | H               |
|                                       |                                                                                             | 5384.64              | 49.59               | -24.41                  | 74                          | 38.63                     | 34.3                          | 11.89                   | 35.23                      | 100                  | 33                      | P                       | H               |
|                                       |                                                                                             | 5452.32              | 40.92               | -13.08                  | 54                          | 29.8                      | 34.47                         | 11.89                   | 35.24                      | 100                  | 33                      | A                       | H               |
|                                       |                                                                                             | 5147.94              | 60.85               | -13.15                  | 74                          | 51.17                     | 33.69                         | 11.21                   | 35.22                      | 178                  | 304                     | P                       | V               |
|                                       |                                                                                             | 5148.46              | 53.15               | -1.85                   | 54                          | 42.47                     | 33.69                         | 11.21                   | 35.22                      | 178                  | 304                     | A                       | V               |
|                                       | *                                                                                           | 5190                 | 103.83              | -                       | -                           | 94.02                     | 33.78                         | 11.25                   | 35.22                      | 178                  | 304                     | P                       | V               |
|                                       | *                                                                                           | 5190                 | 96.28               | -                       | -                           | 86.47                     | 33.78                         | 11.25                   | 35.22                      | 178                  | 304                     | A                       | V               |
|                                       |                                                                                             | 5437.44              | 48.74               | -25.26                  | 74                          | 37.66                     | 34.43                         | 11.89                   | 35.24                      | 178                  | 304                     | P                       | V               |
|                                       |                                                                                             | 5427.12              | 41.15               | -12.85                  | 54                          | 30.12                     | 34.38                         | 11.89                   | 35.24                      | 178                  | 304                     | A                       | V               |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz |                                                                                             | 5142.22              | 58.79               | -15.21                  | 74                          | 49.11                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 30                      | P                       | H               |
|                                       |                                                                                             | 5148.72              | 51.12               | -2.88                   | 54                          | 41.44                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 30                      | A                       | H               |
|                                       | *                                                                                           | 5230                 | 106.12              | -                       | -                           | 96.05                     | 33.91                         | 11.38                   | 35.22                      | 100                  | 30                      | P                       | H               |
|                                       | *                                                                                           | 5230                 | 99.1                | -                       | -                           | 89.03                     | 33.91                         | 11.38                   | 35.22                      | 100                  | 30                      | A                       | H               |
|                                       |                                                                                             | 5401.2               | 49.28               | -24.72                  | 74                          | 38.28                     | 34.34                         | 11.89                   | 35.23                      | 100                  | 30                      | P                       | H               |
|                                       |                                                                                             | 5351.04              | 42.47               | -11.53                  | 54                          | 31.73                     | 34.21                         | 11.76                   | 35.23                      | 100                  | 30                      | A                       | H               |
|                                       |                                                                                             | 5143.52              | 57.81               | -16.19                  | 74                          | 48.13                     | 33.69                         | 11.21                   | 35.22                      | 161                  | 298                     | P                       | V               |
|                                       |                                                                                             | 5148.2               | 50.83               | -3.17                   | 54                          | 41.15                     | 33.69                         | 11.21                   | 35.22                      | 161                  | 298                     | A                       | V               |
|                                       | *                                                                                           | 5230                 | 108.18              | -                       | -                           | 98.11                     | 33.91                         | 11.38                   | 35.22                      | 161                  | 298                     | P                       | V               |
|                                       | *                                                                                           | 5230                 | 100.16              | -                       | -                           | 90.09                     | 33.91                         | 11.38                   | 35.22                      | 161                  | 298                     | A                       | V               |
|                                       |                                                                                             | 5358                 | 50.72               | -23.28                  | 74                          | 39.98                     | 34.21                         | 11.76                   | 35.23                      | 161                  | 298                     | P                       | V               |
|                                       |                                                                                             | 5350.32              | 43.1                | -10.9                   | 54                          | 32.36                     | 34.21                         | 11.76                   | 35.23                      | 161                  | 298                     | A                       | V               |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 1 5150~5250MHz

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

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT40<br>CH 38<br>5190MHz |                                                                                             | 10380                | 45.02               | -28.98                  | 74                          | 47.93                   | 39.11                         | 17.17                   | 59.19                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15570                | 47.04               | -26.96                  | 74                          | 43.43                   | 41.14                         | 19.63                   | 57.16                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10380                | 46.69               | -27.31                  | 74                          | 49.6                    | 39.11                         | 17.17                   | 59.19                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15570                | 47.05               | -26.95                  | 74                          | 43.44                   | 41.14                         | 19.63                   | 57.16                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz |                                                                                             | 10460                | 44.95               | -29.05                  | 74                          | 47.76                   | 39.16                         | 17.17                   | 59.14                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15690                | 46.99               | -27.01                  | 74                          | 43                      | 41.38                         | 19.7                    | 57.09                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10460                | 45.43               | -28.57                  | 74                          | 48.24                   | 39.16                         | 17.17                   | 59.14                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15690                | 45.9                | -28.1                   | 74                          | 41.91                   | 41.38                         | 19.7                    | 57.09                      | 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<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                             | 5121.94              | 61.36               | -12.64                  | 74                          | 51.8                    | 33.6                          | 11.18                   | 35.22                      | 100                  | 29                      | P                     | H             |
|                                       |                                                                                             | 5121.16              | 53.75               | -1.25                   | 54                          | 43.19                   | 33.6                          | 11.18                   | 35.22                      | 100                  | 29                      | A                     | H             |
|                                       | *                                                                                           | 5210                 | 100.29              | -                       | -                           | 90.4                    | 33.86                         | 11.25                   | 35.22                      | 100                  | 29                      | P                     | H             |
|                                       | *                                                                                           | 5210                 | 92.85               | -                       | -                           | 82.96                   | 33.86                         | 11.25                   | 35.22                      | 100                  | 29                      | A                     | H             |
|                                       |                                                                                             | 5357.28              | 48.8                | -25.2                   | 74                          | 38.06                   | 34.21                         | 11.76                   | 35.23                      | 100                  | 29                      | P                     | H             |
|                                       |                                                                                             | 5355.84              | 41.8                | -12.2                   | 54                          | 31.06                   | 34.21                         | 11.76                   | 35.23                      | 100                  | 29                      | A                     | H             |
|                                       |                                                                                             | 5121.16              | 59.84               | -14.16                  | 74                          | 50.28                   | 33.6                          | 11.18                   | 35.22                      | 162                  | 298                     | P                     | V             |
|                                       |                                                                                             | 5121.16              | 52.06               | -1.94                   | 54                          | 42.5                    | 33.6                          | 11.18                   | 35.22                      | 162                  | 298                     | A                     | V             |
|                                       | *                                                                                           | 5210                 | 100.92              | -                       | -                           | 91.03                   | 33.86                         | 11.25                   | 35.22                      | 162                  | 298                     | P                     | V             |
|                                       | *                                                                                           | 5210                 | 93.76               | -                       | -                           | 83.87                   | 33.86                         | 11.25                   | 35.22                      | 162                  | 298                     | A                     | V             |
|                                       |                                                                                             | 5358.24              | 50.89               | -23.11                  | 74                          | 40.15                   | 34.21                         | 11.76                   | 35.23                      | 162                  | 298                     | P                     | V             |
|                                       |                                                                                             | 5350.8               | 42.87               | -11.13                  | 54                          | 32.13                   | 34.21                         | 11.76                   | 35.23                      | 162                  | 298                     | A                     | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |

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

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                             | 10420                | 45.44               | -28.56                  | 74                          | 48.31                   | 39.13                         | 17.17                   | 59.17                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15630                | 46.84               | -27.16                  | 74                          | 43                      | 41.28                         | 19.68                   | 57.12                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10420                | 44.79               | -29.21                  | 74                          | 47.66                   | 39.13                         | 17.17                   | 59.17                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15630                | 47.14               | -26.86                  | 74                          | 43.3                    | 41.28                         | 19.68                   | 57.12                      | 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  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                        |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2                         |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5092.82   | 52.29      | -21.71 | 74         | 42.81    | 33.56    | 11.14  | 35.22  | 174    | 77      | P       | H       |
|                             |      | 5134.94   | 41.7       | -12.3  | 54         | 32.09    | 33.65    | 11.18  | 35.22  | 174    | 77      | A       | H       |
|                             | *    | 5260      | 110.85     | -      | -          | 100.71   | 33.99    | 11.38  | 35.23  | 174    | 77      | P       | H       |
|                             | *    | 5260      | 103.1      | -      | -          | 92.96    | 33.99    | 11.38  | 35.23  | 174    | 77      | A       | H       |
|                             |      | 5456.64   | 50.07      | -23.93 | 74         | 38.95    | 34.47    | 11.89  | 35.24  | 174    | 77      | P       | H       |
|                             |      | 5350.32   | 41.27      | -12.73 | 54         | 30.53    | 34.21    | 11.76  | 35.23  | 174    | 77      | A       | H       |
|                             |      | 5140.4    | 49.3       | -24.7  | 74         | 39.62    | 33.69    | 11.21  | 35.22  | 303    | 346     | P       | V       |
|                             |      | 5149.24   | 41.47      | -12.53 | 54         | 31.79    | 33.69    | 11.21  | 35.22  | 303    | 346     | A       | V       |
|                             | *    | 5260      | 112.25     | -      | -          | 102.11   | 33.99    | 11.38  | 35.23  | 303    | 346     | P       | V       |
|                             | *    | 5260      | 104.79     | -      | -          | 94.65    | 33.99    | 11.38  | 35.23  | 303    | 346     | A       | V       |
|                             |      | 5403.6    | 51.81      | -22.19 | 74         | 40.81    | 34.34    | 11.89  | 35.23  | 303    | 346     | P       | V       |
|                             |      | 5412.48   | 41.71      | -12.29 | 54         | 30.67    | 34.38    | 11.89  | 35.23  | 303    | 346     | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5105.56   | 49.59      | -24.41 | 74         | 40.03    | 33.6     | 11.18  | 35.22  | 176    | 4       | P       | H       |
|                             |      | 5134.68   | 41.16      | -12.84 | 54         | 31.55    | 33.65    | 11.18  | 35.22  | 176    | 4       | A       | H       |
|                             | *    | 5300      | 110        | -      | -          | 99.64    | 34.08    | 11.51  | 35.23  | 176    | 4       | P       | H       |
|                             | *    | 5300      | 102.04     | -      | -          | 91.68    | 34.08    | 11.51  | 35.23  | 176    | 4       | A       | H       |
|                             |      | 5353.68   | 53.67      | -20.33 | 74         | 42.93    | 34.21    | 11.76  | 35.23  | 176    | 4       | P       | H       |
|                             |      | 5351.52   | 46.35      | -7.65  | 54         | 35.61    | 34.21    | 11.76  | 35.23  | 176    | 4       | A       | H       |
|                             |      | 5024.7    | 49.28      | -24.72 | 74         | 39.99    | 33.39    | 11.11  | 35.21  | 301    | 346     | P       | V       |
|                             |      | 5141.7    | 41.31      | -12.69 | 54         | 31.63    | 33.69    | 11.21  | 35.22  | 301    | 346     | A       | V       |
|                             | *    | 5300      | 112.25     | -      | -          | 101.89   | 34.08    | 11.51  | 35.23  | 301    | 346     | P       | V       |
|                             | *    | 5300      | 104.75     | -      | -          | 94.39    | 34.08    | 11.51  | 35.23  | 301    | 346     | A       | V       |
|                             |      | 5350.32   | 52.3       | -21.7  | 74         | 41.56    | 34.21    | 11.76  | 35.23  | 301    | 346     | P       | V       |
|                             |      | 5351.04   | 46.5       | -7.5   | 54         | 35.76    | 34.21    | 11.76  | 35.23  | 301    | 346     | A       | V       |



|                                                  |                                                                                             |         |        |        |    |        |       |       |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 108.47 | -      | -  | 97.95  | 34.12 | 11.63 | 35.23 | 180 | 308 | P | H |
|                                                  | *                                                                                           | 5320    | 100.94 | -      | -  | 90.42  | 34.12 | 11.63 | 35.23 | 180 | 308 | A | H |
|                                                  |                                                                                             | 5350.56 | 58.92  | -15.08 | 74 | 48.18  | 34.21 | 11.76 | 35.23 | 180 | 308 | P | H |
|                                                  |                                                                                             | 5350.08 | 50.37  | -3.63  | 54 | 39.63  | 34.21 | 11.76 | 35.23 | 180 | 308 | A | H |
|                                                  |                                                                                             |         |        |        |    |        |       |       |       |     |     |   | H |
|                                                  |                                                                                             |         |        |        |    |        |       |       |       |     |     |   | H |
|                                                  | *                                                                                           | 5320    | 110.88 | -      | -  | 100.36 | 34.12 | 11.63 | 35.23 | 301 | 346 | P | V |
|                                                  | *                                                                                           | 5320    | 103.35 | -      | -  | 92.83  | 34.12 | 11.63 | 35.23 | 301 | 346 | A | V |
|                                                  |                                                                                             | 5351.68 | 59.28  | -14.72 | 74 | 48.54  | 34.21 | 11.76 | 35.23 | 301 | 346 | P | V |
|                                                  |                                                                                             | 5351.52 | 52.92  | -1.08  | 54 | 42.18  | 34.21 | 11.76 | 35.23 | 301 | 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<br>Ant.<br>1+2         | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 52<br>5260MHz |                                                                                             | 10520                | 44.08               | -29.92                  | 74                          | 46.81                     | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15780                | 47.07               | -26.93                  | 74                          | 42.8                      | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10520                | 45.58               | -28.42                  | 74                          | 48.31                     | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15780                | 47.25               | -26.75                  | 74                          | 42.98                     | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 60<br>5300MHz |                                                                                             | 10600                | 46.12               | -27.88                  | 74                          | 48.85                     | 39.06                         | 17.17                   | 58.96                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15900                | 46.68               | -27.32                  | 74                          | 42.03                     | 41.79                         | 19.82                   | 56.96                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10600                | 45.38               | -28.62                  | 74                          | 48.11                     | 39.06                         | 17.17                   | 58.96                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15900                | 46.79               | -27.21                  | 74                          | 42.14                     | 41.79                         | 19.82                   | 56.96                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 64<br>5320MHz |                                                                                             | 10640                | 45.28               | -28.72                  | 74                          | 48.01                     | 39.01                         | 17.17                   | 58.91                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15960                | 46.7                | -27.3                   | 74                          | 41.82                     | 41.93                         | 19.87                   | 56.92                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10640                | 44.88               | -29.12                  | 74                          | 47.61                     | 39.01                         | 17.17                   | 58.91                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15960                | 47.73               | -26.27                  | 74                          | 42.85                     | 41.93                         | 19.87                   | 56.92                      | 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 VHT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 52<br>5260MHz |      | 5094.64              | 50.53               | -23.47                  | 74                          | 41.05                     | 33.56                         | 11.14                   | 35.22                      | 100                  | 29                      | P                       | H               |
|                                       |      | 5148.46              | 41.73               | -12.27                  | 54                          | 32.05                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 29                      | A                       | H               |
|                                       | *    | 5260                 | 111.1               | -                       | -                           | 100.96                    | 33.99                         | 11.38                   | 35.23                      | 100                  | 29                      | P                       | H               |
|                                       | *    | 5260                 | 103.02              | -                       | -                           | 92.88                     | 33.99                         | 11.38                   | 35.23                      | 100                  | 29                      | A                       | H               |
|                                       |      | 5426.88              | 49.51               | -24.49                  | 74                          | 38.48                     | 34.38                         | 11.89                   | 35.24                      | 100                  | 29                      | P                       | H               |
|                                       |      | 5353.68              | 41.24               | -12.76                  | 54                          | 30.5                      | 34.21                         | 11.76                   | 35.23                      | 100                  | 29                      | A                       | H               |
|                                       |      | 5109.46              | 49.39               | -24.61                  | 74                          | 39.83                     | 33.6                          | 11.18                   | 35.22                      | 170                  | 306                     | P                       | V               |
|                                       |      | 5145.08              | 41.5                | -12.5                   | 54                          | 31.82                     | 33.69                         | 11.21                   | 35.22                      | 170                  | 306                     | A                       | V               |
|                                       | *    | 5260                 | 112.16              | -                       | -                           | 102.02                    | 33.99                         | 11.38                   | 35.23                      | 170                  | 306                     | P                       | V               |
|                                       | *    | 5260                 | 103.75              | -                       | -                           | 93.61                     | 33.99                         | 11.38                   | 35.23                      | 170                  | 306                     | A                       | V               |
|                                       |      | 5436.72              | 49.47               | -24.53                  | 74                          | 38.39                     | 34.43                         | 11.89                   | 35.24                      | 170                  | 306                     | P                       | V               |
|                                       |      | 5362.56              | 41.91               | -12.09                  | 54                          | 31.13                     | 34.25                         | 11.76                   | 35.23                      | 170                  | 306                     | A                       | V               |
| 802.11ac<br>VHT20<br>CH 60<br>5300MHz |      | 5072.02              | 50.26               | -23.74                  | 74                          | 40.81                     | 33.52                         | 11.14                   | 35.21                      | 100                  | 33                      | P                       | H               |
|                                       |      | 5110.5               | 41.47               | -12.53                  | 54                          | 31.91                     | 33.6                          | 11.18                   | 35.22                      | 100                  | 33                      | A                       | H               |
|                                       | *    | 5300                 | 109.89              | -                       | -                           | 99.53                     | 34.08                         | 11.51                   | 35.23                      | 100                  | 33                      | P                       | H               |
|                                       | *    | 5300                 | 102.16              | -                       | -                           | 91.8                      | 34.08                         | 11.51                   | 35.23                      | 100                  | 33                      | A                       | H               |
|                                       |      | 5351.04              | 52.61               | -21.39                  | 74                          | 41.87                     | 34.21                         | 11.76                   | 35.23                      | 100                  | 33                      | P                       | H               |
|                                       |      | 5350.56              | 46.04               | -7.96                   | 54                          | 35.3                      | 34.21                         | 11.76                   | 35.23                      | 100                  | 33                      | A                       | H               |
|                                       |      | 5143                 | 50.4                | -23.6                   | 74                          | 40.72                     | 33.69                         | 11.21                   | 35.22                      | 171                  | 304                     | P                       | V               |
|                                       |      | 5079.04              | 41.55               | -12.45                  | 54                          | 32.1                      | 33.52                         | 11.14                   | 35.21                      | 171                  | 304                     | A                       | V               |
|                                       | *    | 5300                 | 112.16              | -                       | -                           | 101.8                     | 34.08                         | 11.51                   | 35.23                      | 171                  | 304                     | P                       | V               |
|                                       | *    | 5300                 | 103.26              | -                       | -                           | 92.9                      | 34.08                         | 11.51                   | 35.23                      | 171                  | 304                     | A                       | V               |
|                                       |      | 5352.24              | 55.94               | -18.06                  | 74                          | 45.2                      | 34.21                         | 11.76                   | 35.23                      | 171                  | 304                     | P                       | V               |
|                                       |      | 5350.08              | 49.17               | -4.83                   | 54                          | 38.43                     | 34.21                         | 11.76                   | 35.23                      | 171                  | 304                     | A                       | V               |



|                                                                   |                                                                                             |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 108.48 | -      | -  | 97.96  | 34.12 | 11.63 | 35.23 | 100 | 33  | P | H |
|                                                                   | *                                                                                           | 5320    | 100.61 | -      | -  | 90.09  | 34.12 | 11.63 | 35.23 | 100 | 33  | A | H |
|                                                                   |                                                                                             | 5351.04 | 56.28  | -17.72 | 74 | 45.54  | 34.21 | 11.76 | 35.23 | 100 | 33  | P | H |
|                                                                   |                                                                                             | 5350.24 | 51.19  | -2.81  | 54 | 40.45  | 34.21 | 11.76 | 35.23 | 100 | 33  | A | H |
|                                                                   |                                                                                             |         |        |        |    |        |       |       |       |     |     |   | H |
|                                                                   |                                                                                             |         |        |        |    |        |       |       |       |     |     |   | H |
|                                                                   | *                                                                                           | 5320    | 110.63 | -      | -  | 100.11 | 34.12 | 11.63 | 35.23 | 163 | 305 | P | V |
|                                                                   | *                                                                                           | 5320    | 102.44 | -      | -  | 91.92  | 34.12 | 11.63 | 35.23 | 163 | 305 | A | V |
|                                                                   |                                                                                             | 5351.84 | 60.03  | -13.97 | 74 | 49.29  | 34.21 | 11.76 | 35.23 | 163 | 305 | P | V |
|                                                                   |                                                                                             | 5350.24 | 53.59  | -1.41  | 54 | 41.85  | 34.21 | 11.76 | 35.23 | 163 | 305 | 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 802.11ac VHT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT20<br>CH 52<br>5260MHz |                                                                                             | 10520                | 44.34               | -29.66                  | 74                          | 47.07                   | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15780                | 48.35               | -25.65                  | 74                          | 44.08                   | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10520                | 45.88               | -28.12                  | 74                          | 48.61                   | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15780                | 47.58               | -26.42                  | 74                          | 43.31                   | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT20<br>CH 60<br>5300MHz |                                                                                             | 10600                | 44.85               | -29.15                  | 74                          | 47.58                   | 39.06                         | 17.17                   | 58.96                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15900                | 47.18               | -26.82                  | 74                          | 42.53                   | 41.79                         | 19.82                   | 56.96                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10600                | 44.43               | -29.57                  | 74                          | 47.16                   | 39.06                         | 17.17                   | 58.96                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15900                | 46.2                | -27.8                   | 74                          | 41.55                   | 41.79                         | 19.82                   | 56.96                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT20<br>CH 64<br>5320MHz |                                                                                             | 10640                | 43.85               | -30.15                  | 74                          | 46.58                   | 39.01                         | 17.17                   | 58.91                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15960                | 46.54               | -27.46                  | 74                          | 41.66                   | 41.93                         | 19.87                   | 56.92                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10640                | 44.51               | -29.49                  | 74                          | 47.24                   | 39.01                         | 17.17                   | 58.91                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15960                | 47.32               | -26.68                  | 74                          | 42.44                   | 41.93                         | 19.87                   | 56.92                      | 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 VHT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 54<br>5270MHz |                                                                                             | 5148.46              | 52.6                | -21.4                   | 74                          | 42.92                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 32                      | P                       | H               |
|                                       |                                                                                             | 5149.24              | 46.29               | -7.71                   | 54                          | 36.61                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 32                      | A                       | H               |
|                                       | *                                                                                           | 5270                 | 107.57              | -                       | -                           | 97.3                      | 33.99                         | 11.51                   | 35.23                      | 100                  | 32                      | P                       | H               |
|                                       | *                                                                                           | 5270                 | 99.87               | -                       | -                           | 89.6                      | 33.99                         | 11.51                   | 35.23                      | 100                  | 32                      | A                       | H               |
|                                       |                                                                                             | 5350.8               | 55.76               | -18.24                  | 74                          | 45.02                     | 34.21                         | 11.76                   | 35.23                      | 100                  | 32                      | P                       | H               |
|                                       |                                                                                             | 5350.56              | 49.32               | -4.68                   | 54                          | 38.58                     | 34.21                         | 11.76                   | 35.23                      | 100                  | 32                      | A                       | H               |
|                                       |                                                                                             | 5144.56              | 54.65               | -19.35                  | 74                          | 44.97                     | 33.69                         | 11.21                   | 35.22                      | 181                  | 308                     | P                       | V               |
|                                       |                                                                                             | 5149.24              | 45.85               | -8.15                   | 54                          | 36.17                     | 33.69                         | 11.21                   | 35.22                      | 181                  | 308                     | A                       | V               |
|                                       | *                                                                                           | 5270                 | 109.37              | -                       | -                           | 99.1                      | 33.99                         | 11.51                   | 35.23                      | 181                  | 308                     | P                       | V               |
|                                       | *                                                                                           | 5270                 | 100.97              | -                       | -                           | 90.7                      | 33.99                         | 11.51                   | 35.23                      | 181                  | 308                     | A                       | V               |
|                                       |                                                                                             | 5350.08              | 57.32               | -16.68                  | 74                          | 46.58                     | 34.21                         | 11.76                   | 35.23                      | 181                  | 308                     | P                       | V               |
|                                       |                                                                                             | 5350.08              | 51.39               | -2.61                   | 54                          | 40.65                     | 34.21                         | 11.76                   | 35.23                      | 181                  | 308                     | A                       | V               |
| 802.11ac<br>VHT40<br>CH 62<br>5310MHz |                                                                                             | 5039.26              | 49.78               | -24.22                  | 74                          | 40.45                     | 33.43                         | 11.11                   | 35.21                      | 100                  | 33                      | P                       | H               |
|                                       |                                                                                             | 5113.36              | 41.36               | -12.64                  | 54                          | 31.8                      | 33.6                          | 11.18                   | 35.22                      | 100                  | 33                      | A                       | H               |
|                                       | *                                                                                           | 5310                 | 103.43              | -                       | -                           | 92.91                     | 34.12                         | 11.63                   | 35.23                      | 100                  | 33                      | P                       | H               |
|                                       | *                                                                                           | 5310                 | 95.7                | -                       | -                           | 85.18                     | 34.12                         | 11.63                   | 35.23                      | 100                  | 33                      | A                       | H               |
|                                       |                                                                                             | 5350.32              | 58.67               | -15.33                  | 74                          | 47.93                     | 34.21                         | 11.76                   | 35.23                      | 100                  | 33                      | P                       | H               |
|                                       |                                                                                             | 5351.04              | 52.44               | -1.56                   | 54                          | 41.7                      | 34.21                         | 11.76                   | 35.23                      | 100                  | 33                      | A                       | H               |
|                                       |                                                                                             | 5131.82              | 49.85               | -24.15                  | 74                          | 40.24                     | 33.65                         | 11.18                   | 35.22                      | 177                  | 302                     | P                       | V               |
|                                       |                                                                                             | 5113.36              | 42.57               | -11.43                  | 54                          | 33.01                     | 33.6                          | 11.18                   | 35.22                      | 177                  | 302                     | A                       | V               |
|                                       | *                                                                                           | 5310                 | 105.73              | -                       | -                           | 95.21                     | 34.12                         | 11.63                   | 35.23                      | 177                  | 302                     | P                       | V               |
|                                       | *                                                                                           | 5310                 | 97.46               | -                       | -                           | 86.94                     | 34.12                         | 11.63                   | 35.23                      | 177                  | 302                     | A                       | V               |
|                                       |                                                                                             | 5352.96              | 60.92               | -13.08                  | 74                          | 50.18                     | 34.21                         | 11.76                   | 35.23                      | 177                  | 302                     | P                       | V               |
|                                       |                                                                                             | 5350.56              | 53.16               | -1.24                   | 54                          | 42.02                     | 34.21                         | 11.76                   | 35.23                      | 177                  | 302                     | A                       | V               |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 2 5250~5350MHz

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

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 54<br>5270MHz |                                                                                             | 10540                | 44.74               | -29.26                  | 74                          | 47.47                     | 39.15                         | 17.17                   | 59.05                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15810                | 45.65               | -28.35                  | 74                          | 41.27                     | 41.62                         | 19.77                   | 57.01                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10540                | 44.69               | -29.31                  | 74                          | 47.42                     | 39.15                         | 17.17                   | 59.05                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15810                | 46.31               | -27.69                  | 74                          | 41.93                     | 41.62                         | 19.77                   | 57.01                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 62<br>5310MHz |                                                                                             | 10620                | 43.6                | -30.4                   | 74                          | 46.33                     | 39.03                         | 17.17                   | 58.93                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15930                | 47.17               | -26.83                  | 74                          | 42.41                     | 41.86                         | 19.84                   | 56.94                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10620                | 43.97               | -30.03                  | 74                          | 46.7                      | 39.03                         | 17.17                   | 58.93                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15930                | 46.74               | -27.26                  | 74                          | 41.98                     | 41.86                         | 19.84                   | 56.94                      | 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<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                             | 5149.5               | 54.34               | -19.66                  | 74                          | 44.66                   | 33.69                         | 11.21                   | 35.22                      | 100                  | 33                      | P                     | H             |
|                                       |                                                                                             | 5149.24              | 47.97               | -6.03                   | 54                          | 38.29                   | 33.69                         | 11.21                   | 35.22                      | 100                  | 33                      | A                     | H             |
|                                       | *                                                                                           | 5290                 | 100.22              | -                       | -                           | 89.9                    | 34.04                         | 11.51                   | 35.23                      | 100                  | 33                      | P                     | H             |
|                                       | *                                                                                           | 5290                 | 92.51               | -                       | -                           | 82.19                   | 34.04                         | 11.51                   | 35.23                      | 100                  | 33                      | A                     | H             |
|                                       |                                                                                             | 5360.88              | 56.81               | -17.19                  | 74                          | 46.03                   | 34.25                         | 11.76                   | 35.23                      | 100                  | 33                      | P                     | H             |
|                                       |                                                                                             | 5351.04              | 51.44               | -2.56                   | 54                          | 40.7                    | 34.21                         | 11.76                   | 35.23                      | 100                  | 33                      | A                     | H             |
|                                       |                                                                                             | 5141.7               | 55.01               | -18.99                  | 74                          | 45.33                   | 33.69                         | 11.21                   | 35.22                      | 174                  | 302                     | P                     | V             |
|                                       |                                                                                             | 5147.94              | 48.39               | -5.61                   | 54                          | 38.71                   | 33.69                         | 11.21                   | 35.22                      | 174                  | 302                     | A                     | V             |
|                                       | *                                                                                           | 5290                 | 102.72              | -                       | -                           | 92.4                    | 34.04                         | 11.51                   | 35.23                      | 174                  | 302                     | P                     | V             |
|                                       | *                                                                                           | 5290                 | 93.89               | -                       | -                           | 83.57                   | 34.04                         | 11.51                   | 35.23                      | 174                  | 302                     | A                     | V             |
|                                       |                                                                                             | 5351.28              | 57.79               | -16.21                  | 74                          | 47.05                   | 34.21                         | 11.76                   | 35.23                      | 174                  | 302                     | P                     | V             |
|                                       |                                                                                             | 5350.56              | 52.08               | -1.92                   | 54                          | 41.34                   | 34.21                         | 11.76                   | 35.23                      | 174                  | 302                     | A                     | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |

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

| WIFI<br>Ant.<br>1+2                             | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11ac<br/>VHT80<br/>CH 58<br/>5290MHz</b> |                                                                                             | 10580                | 44.57               | -29.43                  | 74                          | 47.3                    | 39.08                         | 17.17                   | 58.98                      | 100                  | 0                       | P                     | H             |
|                                                 |                                                                                             | 15870                | 46.29               | -27.71                  | 74                          | 41.68                   | 41.76                         | 19.82                   | 56.97                      | 100                  | 0                       | P                     | H             |
|                                                 |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                 |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                 |                                                                                             | 10580                | 44.34               | -29.66                  | 74                          | 47.07                   | 39.08                         | 17.17                   | 58.98                      | 100                  | 0                       | P                     | V             |
|                                                 |                                                                                             | 15870                | 46.72               | -27.28                  | 74                          | 42.11                   | 41.76                         | 19.82                   | 56.97                      | 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  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                         |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2                          |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5457.2    | 59.24      | -14.76 | 74         | 48.12    | 34.47    | 11.89  | 35.24  | 194    | 3       | P       | H       |
|                              |      | 5469.04   | 65.25      | -2.95  | 68.2       | 54.09    | 34.51    | 11.89  | 35.24  | 194    | 3       | P       | H       |
|                              |      | 5459.6    | 52.1       | -1.9   | 54         | 40.98    | 34.47    | 11.89  | 35.24  | 194    | 3       | A       | H       |
|                              | *    | 5500      | 109.72     | -      | -          | 98.47    | 34.6     | 11.89  | 35.24  | 194    | 3       | P       | H       |
|                              | *    | 5500      | 102.03     | -      | -          | 90.78    | 34.6     | 11.89  | 35.24  | 194    | 3       | A       | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      | 5459.8    | 58.73      | -15.27 | 74         | 47.61    | 34.47    | 11.89  | 35.24  | 102    | 345     | P       | V       |
|                              |      | 5469.36   | 66.27      | -1.93  | 68.2       | 55.11    | 34.51    | 11.89  | 35.24  | 102    | 345     | P       | V       |
|                              |      | 5460      | 52.32      | -1.68  | 54         | 41.2     | 34.47    | 11.89  | 35.24  | 102    | 345     | A       | V       |
|                              | *    | 5500      | 111.54     | -      | -          | 100.29   | 34.6     | 11.89  | 35.24  | 102    | 345     | P       | V       |
|                              | *    | 5500      | 103.54     | -      | -          | 92.29    | 34.6     | 11.89  | 35.24  | 102    | 345     | A       | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 116<br>5580MHz |      | 5440.72   | 50.45      | -23.55 | 74         | 39.37    | 34.43    | 11.89  | 35.24  | 179    | 9       | P       | H       |
|                              |      | 5464.24   | 48.11      | -20.09 | 68.2       | 36.95    | 34.51    | 11.89  | 35.24  | 179    | 9       | P       | H       |
|                              |      | 5458.48   | 41.34      | -12.66 | 54         | 30.22    | 34.47    | 11.89  | 35.24  | 179    | 9       | A       | H       |
|                              | *    | 5580      | 110.41     | -      | -          | 99.18    | 34.6     | 11.89  | 35.26  | 179    | 9       | P       | H       |
|                              | *    | 5580      | 102.35     | -      | -          | 91.12    | 34.6     | 11.89  | 35.26  | 179    | 9       | A       | H       |
|                              |      | 5731.925  | 50.06      | -18.14 | 68.2       | 38.69    | 34.6     | 12.06  | 35.29  | 179    | 9       | P       | H       |
|                              |      | 5432.8    | 49.11      | -24.89 | 74         | 38.03    | 34.43    | 11.89  | 35.24  | 100    | 344     | P       | V       |
|                              |      | 5468.8    | 49.16      | -19.04 | 68.2       | 38       | 34.51    | 11.89  | 35.24  | 100    | 344     | P       | V       |
|                              |      | 5459.44   | 41.49      | -12.51 | 54         | 30.37    | 34.47    | 11.89  | 35.24  | 100    | 344     | A       | V       |
|                              | *    | 5580      | 111.68     | -      | -          | 100.45   | 34.6     | 11.89  | 35.26  | 100    | 344     | P       | V       |
|                              | *    | 5580      | 103.91     | -      | -          | 92.68    | 34.6     | 11.89  | 35.26  | 100    | 344     | A       | V       |
|                              |      | 5725      | 49.96      | -18.24 | 68.2       | 38.58    | 34.6     | 12.06  | 35.28  | 100    | 344     | P       | V       |



|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   |   |
|---------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|------|-------|------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *                                                                                           | 5700    | 107.71 | -     | -    | 96.39 | 34.6 | 12    | 35.28 | 186 | 316 | P | H |
|                                       | *                                                                                           | 5700    | 99.86  | -     | -    | 88.54 | 34.6 | 12    | 35.28 | 186 | 316 | A | H |
|                                       |                                                                                             | 5725.24 | 64.47  | -3.73 | 68.2 | 53.1  | 34.6 | 12.06 | 35.29 | 186 | 316 | P | H |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                       | *                                                                                           | 5700    | 110.12 | -     | -    | 98.8  | 34.6 | 12    | 35.28 | 100 | 308 | P | V |
|                                       | *                                                                                           | 5700    | 102.05 | -     | -    | 90.73 | 34.6 | 12    | 35.28 | 100 | 308 | A | V |
|                                       |                                                                                             | 5727    | 65.15  | -3.05 | 68.2 | 53.78 | 34.6 | 12.06 | 35.29 | 100 | 308 | P | V |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | V |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | V |
|                                       |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | V |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |       |      |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2          | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 100<br>5500MHz |                                                                                             | 11000                | 44.17               | -29.83                  | 74                          | 46.9                      | 38.5                          | 17.17                   | 58.4                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16500                | 48.46               | -19.74                  | 68.2                        | 41.33                     | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11000                | 43.53               | -30.47                  | 74                          | 46.26                     | 38.5                          | 17.17                   | 58.4                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16500                | 48.55               | -19.65                  | 68.2                        | 41.42                     | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 116<br>5580MHz |                                                                                             | 11160                | 44.12               | -29.88                  | 74                          | 46.22                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16740                | 46.95               | -21.25                  | 68.2                        | 39.62                     | 42.9                          | 20.39                   | 55.96                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11160                | 43.22               | -30.78                  | 74                          | 45.32                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16740                | 47.07               | -21.13                  | 68.2                        | 39.74                     | 42.9                          | 20.39                   | 55.96                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 140<br>5700MHz |                                                                                             | 11400                | 43.45               | -30.55                  | 74                          | 44.67                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17100                | 47.39               | -20.81                  | 68.2                        | 39.94                     | 42.64                         | 20.65                   | 55.84                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11400                | 43.75               | -30.25                  | 74                          | 44.97                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17100                | 48.29               | -19.91                  | 68.2                        | 40.84                     | 42.64                         | 20.65                   | 55.84                      | 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 VHT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|----------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 100<br>5500MHz |      | 5459.28              | 58.41               | -15.59                  | 74                          | 47.29                     | 34.47                         | 11.89                   | 35.24                      | 173                  | 310                     | P                       | H               |
|                                        |      | 5467.92              | 63.82               | -4.38                   | 68.2                        | 52.66                     | 34.51                         | 11.89                   | 35.24                      | 173                  | 310                     | P                       | H               |
|                                        |      | 5459.12              | 51.21               | -2.79                   | 54                          | 40.09                     | 34.47                         | 11.89                   | 35.24                      | 173                  | 310                     | A                       | H               |
|                                        | *    | 5500                 | 110.74              | -                       | -                           | 99.49                     | 34.6                          | 11.89                   | 35.24                      | 173                  | 310                     | P                       | H               |
|                                        | *    | 5500                 | 101.95              | -                       | -                           | 90.7                      | 34.6                          | 11.89                   | 35.24                      | 173                  | 310                     | A                       | H               |
|                                        |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |      | 5459.6               | 59.89               | -14.11                  | 74                          | 48.77                     | 34.47                         | 11.89                   | 35.24                      | 234                  | 308                     | P                       | V               |
|                                        |      | 5469.2               | 65.96               | -2.24                   | 68.2                        | 54.8                      | 34.51                         | 11.89                   | 35.24                      | 234                  | 308                     | P                       | V               |
|                                        |      | 5459.28              | 52.44               | -1.56                   | 54                          | 41.32                     | 34.47                         | 11.89                   | 35.24                      | 234                  | 308                     | A                       | V               |
|                                        | *    | 5500                 | 111.34              | -                       | -                           | 100.09                    | 34.6                          | 11.89                   | 35.24                      | 234                  | 308                     | P                       | V               |
|                                        | *    | 5500                 | 103.11              | -                       | -                           | 91.86                     | 34.6                          | 11.89                   | 35.24                      | 234                  | 308                     | P                       | V               |
|                                        |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 116<br>5580MHz |      | 5418.16              | 49.12               | -24.88                  | 74                          | 38.09                     | 34.38                         | 11.89                   | 35.24                      | 173                  | 310                     | P                       | H               |
|                                        |      | 5468.32              | 48.09               | -20.11                  | 68.2                        | 36.93                     | 34.51                         | 11.89                   | 35.24                      | 173                  | 310                     | P                       | H               |
|                                        |      | 5458.48              | 41.3                | -12.7                   | 54                          | 30.18                     | 34.47                         | 11.89                   | 35.24                      | 173                  | 310                     | A                       | H               |
|                                        | *    | 5580                 | 110.3               | -                       | -                           | 99.07                     | 34.6                          | 11.89                   | 35.26                      | 173                  | 310                     | P                       | H               |
|                                        | *    | 5580                 | 101.83              | -                       | -                           | 90.6                      | 34.6                          | 11.89                   | 35.26                      | 173                  | 310                     | A                       | H               |
|                                        |      | 5727.725             | 49.42               | -18.78                  | 68.2                        | 38.05                     | 34.6                          | 12.06                   | 35.29                      | 173                  | 310                     | P                       | H               |
|                                        |      | 5438.56              | 49.81               | -24.19                  | 74                          | 38.73                     | 34.43                         | 11.89                   | 35.24                      | 234                  | 308                     | P                       | V               |
|                                        |      | 5469.52              | 50.45               | -17.75                  | 68.2                        | 39.29                     | 34.51                         | 11.89                   | 35.24                      | 234                  | 308                     | P                       | V               |
|                                        |      | 5459.92              | 41.5                | -12.5                   | 54                          | 30.38                     | 34.47                         | 11.89                   | 35.24                      | 234                  | 308                     | A                       | V               |
|                                        | *    | 5580                 | 111.33              | -                       | -                           | 100.1                     | 34.6                          | 11.89                   | 35.26                      | 234                  | 308                     | P                       | V               |
|                                        | *    | 5580                 | 102.51              | -                       | -                           | 91.28                     | 34.6                          | 11.89                   | 35.26                      | 234                  | 308                     | A                       | V               |
|                                        |      | 5737.875             | 50.57               | -17.63                  | 68.2                        | 39.2                      | 34.6                          | 12.06                   | 35.29                      | 234                  | 308                     | P                       | V               |



|                                                                    |                                                                                             |         |        |       |      |       |      |       |       |     |     |   |   |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|------|-------|------|-------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 140</b><br><b>5700MHz</b> | *                                                                                           | 5700    | 107.42 | -     | -    | 96.1  | 34.6 | 12    | 35.28 | 162 | 308 | P | H |
|                                                                    | *                                                                                           | 5700    | 99.5   | -     | -    | 88.18 | 34.6 | 12    | 35.28 | 162 | 308 | A | H |
|                                                                    |                                                                                             | 5725.16 | 65.49  | -2.71 | 68.2 | 54.12 | 34.6 | 12.06 | 35.29 | 162 | 308 | P | H |
|                                                                    |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                                                    |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                                                    |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                                                    | *                                                                                           | 5700    | 111.1  | -     | -    | 99.78 | 34.6 | 12    | 35.28 | 262 | 296 | P | V |
|                                                                    | *                                                                                           | 5700    | 101.8  | -     | -    | 90.48 | 34.6 | 12    | 35.28 | 262 | 296 | A | V |
|                                                                    |                                                                                             | 5725.64 | 67.35  | -1.85 | 68.2 | 54.98 | 34.6 | 12.06 | 35.29 | 262 | 296 | 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 802.11ac VHT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 100<br>5500MHz |                                                                                             | 11000                | 44.9                | -29.1                   | 74                          | 47.63                     | 38.5                          | 17.17                   | 58.4                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16500                | 46.7                | -21.5                   | 68.2                        | 39.57                     | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11000                | 44.61               | -29.39                  | 74                          | 47.34                     | 38.5                          | 17.17                   | 58.4                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16500                | 46.43               | -21.77                  | 68.2                        | 39.3                      | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 116<br>5580MHz |                                                                                             | 11160                | 43.75               | -30.25                  | 74                          | 45.85                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16740                | 48.05               | -20.15                  | 68.2                        | 40.72                     | 42.9                          | 20.39                   | 55.96                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11160                | 43.64               | -30.36                  | 74                          | 45.74                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16740                | 48.15               | -20.05                  | 68.2                        | 40.82                     | 42.9                          | 20.39                   | 55.96                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 140<br>5700MHz |                                                                                             | 11400                | 44.22               | -29.78                  | 74                          | 45.44                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 17100                | 53.2                | -15                     | 68.2                        | 45.75                     | 42.64                         | 20.65                   | 55.84                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11400                | 46.01               | -27.99                  | 74                          | 47.23                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 17100                | 54.21               | -13.99                  | 68.2                        | 46.76                     | 42.64                         | 20.65                   | 55.84                      | 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 VHT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|----------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 102<br>5510MHz |      | 5459.44              | 60.38               | -13.62                  | 74                          | 49.26                     | 34.47                         | 11.89                   | 35.24                      | 176                  | 305                     | P                       | H               |
|                                        |      | 5462.8               | 65.02               | -3.18                   | 68.2                        | 53.86                     | 34.51                         | 11.89                   | 35.24                      | 176                  | 305                     | P                       | H               |
|                                        |      | 5458.48              | 51.29               | -2.71                   | 54                          | 40.17                     | 34.47                         | 11.89                   | 35.24                      | 176                  | 305                     | A                       | H               |
|                                        | *    | 5510                 | 104.9               | -                       | -                           | 93.65                     | 34.6                          | 11.89                   | 35.24                      | 176                  | 305                     | P                       | H               |
|                                        | *    | 5510                 | 96.75               | -                       | -                           | 85.5                      | 34.6                          | 11.89                   | 35.24                      | 176                  | 305                     | A                       | H               |
|                                        |      | 5762.9               | 49.25               | -18.95                  | 68.2                        | 37.83                     | 34.6                          | 12.11                   | 35.29                      | 176                  | 305                     | P                       | H               |
|                                        |      | 5458.24              | 59.56               | -14.44                  | 74                          | 48.44                     | 34.47                         | 11.89                   | 35.24                      | 224                  | 300                     | P                       | V               |
|                                        |      | 5466.4               | 65.83               | -2.37                   | 68.2                        | 54.67                     | 34.51                         | 11.89                   | 35.24                      | 224                  | 300                     | P                       | V               |
|                                        |      | 5458.96              | 53.89               | -1.01                   | 54                          | 41.87                     | 34.47                         | 11.89                   | 35.24                      | 224                  | 300                     | A                       | V               |
|                                        | *    | 5510                 | 106.15              | -                       | -                           | 94.9                      | 34.6                          | 11.89                   | 35.24                      | 224                  | 300                     | P                       | V               |
|                                        | *    | 5510                 | 97.94               | -                       | -                           | 86.69                     | 34.6                          | 11.89                   | 35.24                      | 224                  | 300                     | A                       | V               |
|                                        |      | 5754.325             | 49.78               | -18.42                  | 68.2                        | 38.36                     | 34.6                          | 12.11                   | 35.29                      | 224                  | 300                     | P                       | V               |
| 802.11ac<br>VHT40<br>CH 110<br>5550MHz |      | 5457.04              | 54.6                | -19.4                   | 74                          | 43.48                     | 34.47                         | 11.89                   | 35.24                      | 176                  | 309                     | P                       | H               |
|                                        |      | 5469.04              | 57.52               | -10.68                  | 68.2                        | 46.36                     | 34.51                         | 11.89                   | 35.24                      | 176                  | 309                     | P                       | H               |
|                                        |      | 5458.72              | 48.61               | -5.39                   | 54                          | 37.49                     | 34.47                         | 11.89                   | 35.24                      | 176                  | 309                     | A                       | H               |
|                                        | *    | 5550                 | 107.37              | -                       | -                           | 96.13                     | 34.6                          | 11.89                   | 35.25                      | 176                  | 309                     | P                       | H               |
|                                        | *    | 5550                 | 98.81               | -                       | -                           | 87.57                     | 34.6                          | 11.89                   | 35.25                      | 176                  | 309                     | A                       | H               |
|                                        |      | 5752.4               | 49.82               | -18.38                  | 68.2                        | 38.4                      | 34.6                          | 12.11                   | 35.29                      | 176                  | 309                     | P                       | H               |
|                                        |      | 5457.52              | 56.74               | -17.26                  | 74                          | 45.62                     | 34.47                         | 11.89                   | 35.24                      | 214                  | 298                     | P                       | V               |
|                                        |      | 5469.04              | 58.9                | -9.3                    | 68.2                        | 47.74                     | 34.51                         | 11.89                   | 35.24                      | 214                  | 298                     | P                       | V               |
|                                        |      | 5452.48              | 49.96               | -4.04                   | 54                          | 38.84                     | 34.47                         | 11.89                   | 35.24                      | 214                  | 298                     | A                       | V               |
|                                        | *    | 5550                 | 108.04              | -                       | -                           | 96.8                      | 34.6                          | 11.89                   | 35.25                      | 214                  | 298                     | P                       | V               |
|                                        | *    | 5550                 | 99.54               | -                       | -                           | 88.3                      | 34.6                          | 11.89                   | 35.25                      | 214                  | 298                     | A                       | V               |
|                                        |      | 5765                 | 50.6                | -17.6                   | 68.2                        | 39.18                     | 34.6                          | 12.11                   | 35.29                      | 214                  | 298                     | P                       | V               |



|                                                                    |                                                                                             |          |        |        |      |       |       |       |       |     |     |   |   |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|--------|--------|------|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT40</b><br><b>CH 134</b><br><b>5670MHz</b> |                                                                                             | 5437.6   | 49.02  | -24.98 | 74   | 37.94 | 34.43 | 11.89 | 35.24 | 162 | 308 | P | H |
|                                                                    |                                                                                             | 5469.76  | 49.12  | -19.08 | 68.2 | 37.96 | 34.51 | 11.89 | 35.24 | 162 | 308 | P | H |
|                                                                    |                                                                                             | 5444.32  | 41.2   | -12.8  | 54   | 30.12 | 34.43 | 11.89 | 35.24 | 162 | 308 | A | H |
|                                                                    | *                                                                                           | 5670     | 105.23 | -      | -    | 93.9  | 34.6  | 12    | 35.27 | 162 | 308 | P | H |
|                                                                    | *                                                                                           | 5670     | 97.08  | -      | -    | 85.75 | 34.6  | 12    | 35.27 | 162 | 308 | A | H |
|                                                                    |                                                                                             | 5725.975 | 57.44  | -10.76 | 68.2 | 46.07 | 34.6  | 12.06 | 35.29 | 162 | 308 | P | H |
|                                                                    |                                                                                             | 5362.72  | 48.87  | -25.13 | 74   | 38.09 | 34.25 | 11.76 | 35.23 | 269 | 296 | P | V |
|                                                                    |                                                                                             | 5466.88  | 48.56  | -19.64 | 68.2 | 37.4  | 34.51 | 11.89 | 35.24 | 269 | 296 | P | V |
|                                                                    |                                                                                             | 5456.8   | 41.31  | -12.69 | 54   | 30.19 | 34.47 | 11.89 | 35.24 | 269 | 296 | A | V |
|                                                                    | *                                                                                           | 5670     | 107.53 | -      | -    | 96.2  | 34.6  | 12    | 35.27 | 269 | 296 | P | V |
|                                                                    | *                                                                                           | 5670     | 99.08  | -      | -    | 87.75 | 34.6  | 12    | 35.27 | 269 | 296 | A | V |
|                                                                    |                                                                                             | 5726.325 | 62.19  | -6.01  | 68.2 | 50.82 | 34.6  | 12.06 | 35.29 | 269 | 296 | P | V |
| <b>Remark</b>                                                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |          |        |        |      |       |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

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

| WIFI<br>Ant.<br>1+2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 102<br>5510MHz |                                                                                             | 11020                | 44.32               | -29.68                  | 74                          | 46.98                     | 38.53                         | 17.17                   | 58.36                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16530                | 46.83               | -21.37                  | 68.2                        | 39.67                     | 42.99                         | 20.25                   | 56.08                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11020                | 44.57               | -29.43                  | 74                          | 47.23                     | 38.53                         | 17.17                   | 58.36                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16530                | 47.23               | -20.97                  | 68.2                        | 40.07                     | 42.99                         | 20.25                   | 56.08                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 110<br>5550MHz |                                                                                             | 11100                | 44.03               | -29.97                  | 74                          | 46.39                     | 38.66                         | 17.16                   | 58.18                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16650                | 47.37               | -20.83                  | 68.2                        | 40.1                      | 42.94                         | 20.34                   | 56.01                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11100                | 43.79               | -30.21                  | 74                          | 46.15                     | 38.66                         | 17.16                   | 58.18                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16650                | 46.68               | -21.52                  | 68.2                        | 39.41                     | 42.94                         | 20.34                   | 56.01                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 134<br>5670MHz |                                                                                             | 11340                | 43.71               | -30.29                  | 74                          | 45.19                     | 39.03                         | 17.16                   | 57.67                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 17010                | 48.34               | -19.86                  | 68.2                        | 40.79                     | 42.77                         | 20.59                   | 55.81                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11340                | 43.51               | -30.49                  | 74                          | 44.99                     | 39.03                         | 17.16                   | 57.67                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 17010                | 48.85               | -19.35                  | 68.2                        | 41.3                      | 42.77                         | 20.59                   | 55.81                      | 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<br>Ant.<br>1+2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                                                             | 5458.48              | 56.35               | -17.65                  | 74                          | 45.23                     | 34.47                         | 11.89                   | 35.24                      | 176                  | 300                     | P                       | H               |
|                                        |                                                                                             | 5465.44              | 57.17               | -11.03                  | 68.2                        | 46.01                     | 34.51                         | 11.89                   | 35.24                      | 176                  | 300                     | P                       | H               |
|                                        |                                                                                             | 5437.6               | 50.62               | -3.38                   | 54                          | 39.54                     | 34.43                         | 11.89                   | 35.24                      | 176                  | 300                     | A                       | H               |
|                                        | *                                                                                           | 5530                 | 99.4                | -                       | -                           | 88.16                     | 34.6                          | 11.89                   | 35.25                      | 176                  | 300                     | P                       | H               |
|                                        | *                                                                                           | 5530                 | 91.58               | -                       | -                           | 80.34                     | 34.6                          | 11.89                   | 35.25                      | 176                  | 300                     | A                       | H               |
|                                        |                                                                                             | 5739.975             | 50.03               | -18.17                  | 68.2                        | 38.66                     | 34.6                          | 12.06                   | 35.29                      | 176                  | 300                     | P                       | H               |
|                                        |                                                                                             | 5433.76              | 61.97               | -12.03                  | 74                          | 50.89                     | 34.43                         | 11.89                   | 35.24                      | 224                  | 300                     | P                       | V               |
|                                        |                                                                                             | 5460.88              | 59.02               | -9.18                   | 68.2                        | 47.9                      | 34.47                         | 11.89                   | 35.24                      | 224                  | 300                     | P                       | V               |
|                                        |                                                                                             | 5438.56              | 53.31               | -1.69                   | 54                          | 41.23                     | 34.43                         | 11.89                   | 35.24                      | 224                  | 300                     | A                       | V               |
|                                        | *                                                                                           | 5530                 | 101.64              | -                       | -                           | 90.4                      | 34.6                          | 11.89                   | 35.25                      | 224                  | 300                     | P                       | V               |
|                                        | *                                                                                           | 5530                 | 93.87               | -                       | -                           | 82.63                     | 34.6                          | 11.89                   | 35.25                      | 224                  | 300                     | A                       | V               |
|                                        |                                                                                             | 5726.325             | 50.34               | -17.86                  | 68.2                        | 38.97                     | 34.6                          | 12.06                   | 35.29                      | 224                  | 300                     | P                       | V               |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 5430.64              | 54.82               | -19.18                  | 74                          | 43.74                     | 34.43                         | 11.89                   | 35.24                      | 200                  | 300                     | P                       | H               |
|                                        |                                                                                             | 5463.52              | 55.48               | -12.72                  | 68.2                        | 44.32                     | 34.51                         | 11.89                   | 35.24                      | 200                  | 300                     | P                       | H               |
|                                        |                                                                                             | 5459.68              | 48.05               | -5.95                   | 54                          | 36.93                     | 34.47                         | 11.89                   | 35.24                      | 200                  | 300                     | A                       | H               |
|                                        | *                                                                                           | 5610                 | 102.36              | -                       | -                           | 91.13                     | 34.6                          | 11.89                   | 35.26                      | 200                  | 300                     | P                       | H               |
|                                        | *                                                                                           | 5610                 | 94.13               | -                       | -                           | 82.9                      | 34.6                          | 11.89                   | 35.26                      | 200                  | 300                     | A                       | H               |
|                                        |                                                                                             | 5741.2               | 52.06               | -16.14                  | 68.2                        | 40.64                     | 34.6                          | 12.11                   | 35.29                      | 200                  | 300                     | P                       | H               |
|                                        |                                                                                             | 5443.36              | 54.92               | -19.08                  | 74                          | 43.84                     | 34.43                         | 11.89                   | 35.24                      | 225                  | 296                     | P                       | V               |
|                                        |                                                                                             | 5465.92              | 56.34               | -11.86                  | 68.2                        | 45.18                     | 34.51                         | 11.89                   | 35.24                      | 225                  | 296                     | P                       | V               |
|                                        |                                                                                             | 5458.96              | 48.96               | -5.04                   | 54                          | 37.84                     | 34.47                         | 11.89                   | 35.24                      | 225                  | 296                     | A                       | V               |
|                                        | *                                                                                           | 5610                 | 103.87              | -                       | -                           | 92.64                     | 34.6                          | 11.89                   | 35.26                      | 225                  | 296                     | P                       | V               |
|                                        | *                                                                                           | 5610                 | 95.97               | -                       | -                           | 84.74                     | 34.6                          | 11.89                   | 35.26                      | 225                  | 296                     | A                       | V               |
|                                        |                                                                                             | 5725.1               | 55.12               | -13.08                  | 68.2                        | 43.75                     | 34.6                          | 12.06                   | 35.29                      | 225                  | 296                     | 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<br>Ant.<br>1+2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                                                             | 11060                | 44.88               | -29.12                  | 74                          | 47.36                     | 38.61                         | 17.16                   | 58.25                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16590                | 47.93               | -20.27                  | 68.2                        | 40.7                      | 42.97                         | 20.31                   | 56.05                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11060                | 44.75               | -29.25                  | 74                          | 47.23                     | 38.61                         | 17.16                   | 58.25                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16590                | 47.9                | -20.3                   | 68.2                        | 40.67                     | 42.97                         | 20.31                   | 56.05                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 11220                | 44.51               | -29.49                  | 74                          | 46.42                     | 38.85                         | 17.16                   | 57.92                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16830                | 47.67               | -20.53                  | 68.2                        | 40.22                     | 42.87                         | 20.48                   | 55.9                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11220                | 44.06               | -29.94                  | 74                          | 45.97                     | 38.85                         | 17.16                   | 57.92                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16830                | 46.64               | -21.56                  | 68.2                        | 39.19                     | 42.87                         | 20.48                   | 55.9                       | 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 - Straddle Channel****WIFI 802.11a (Band Edge @ 3m)**

| WIFI                                  | Note                                                         | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|---------------------------------------|--------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                                  |                                                              |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1+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> | *                                                            | 5720      | 109.09     | -      | -          | 97.71  | 34.6     | 12.06  | 35.28  | 179    | 316     | P     | H     |
|                                       | *                                                            | 5720      | 101.64     | -      | -          | 90.26  | 34.6     | 12.06  | 35.28  | 179    | 316     | A     | H     |
|                                       |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                       | *                                                            | 5720      | 111.25     | -      | -          | 99.87  | 34.6     | 12.06  | 35.28  | 100    | 352     | P     | V     |
|                                       | *                                                            | 5720      | 103.84     | -      | -          | 92.46  | 34.6     | 12.06  | 35.28  | 100    | 352     | A     | V     |
|                                       |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                       |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                       |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                       |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
| <b>Remark</b>                         | 1. No other spurious found.                                  |           |            |        |            |        |          |        |        |        |         |       |       |
|                                       | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |

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

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11a<br/>CH 144<br/>5720MHz</b> |                                                                                             | 11440                | 44.84               | -29.16                  | 74                          | 45.94                   | 39.19                         | 17.16                   | 57.45                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 17160                | 56.2                | -12                     | 68.2                        | 48.84                   | 42.53                         | 20.7                    | 55.87                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 11440                | 44.81               | -29.19                  | 74                          | 45.91                   | 39.19                         | 17.16                   | 57.45                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 17160                | 54.78               | -13.42                  | 68.2                        | 47.42                   | 42.53                         | 20.7                    | 55.87                      | 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 VHT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT20<br>CH 144<br>5720MHz | *                                                                                           | 5720                 | 108.69              | -                       | -                           | 97.31                   | 34.6                          | 12.06                   | 35.28                      | 162                  | 309                     | P                     | H             |
|                                        | *                                                                                           | 5720                 | 100.08              | -                       | -                           | 88.7                    | 34.6                          | 12.06                   | 35.28                      | 162                  | 309                     | A                     | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        | *                                                                                           | 5720                 | 110.97              | -                       | -                           | 99.59                   | 34.6                          | 12.06                   | 35.28                      | 267                  | 297                     | P                     | V             |
|                                        | *                                                                                           | 5720                 | 102.17              | -                       | -                           | 90.79                   | 34.6                          | 12.06                   | 35.28                      | 267                  | 297                     | A                     | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |

**Band 3 - Straddle Channel****WIFI 802.11ac VHT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2                              | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11ac<br/>VHT20<br/>CH 144<br/>5720MHz</b> |                                                                                             | 11440                | 46.06               | -27.94                  | 74                          | 47.16                   | 39.19                         | 17.16                   | 57.45                      | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             | 17160                | 52.17               | -16.03                  | 68.2                        | 44.81                   | 42.53                         | 20.7                    | 55.87                      | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             | 11440                | 44.85               | -29.15                  | 74                          | 45.95                   | 39.19                         | 17.16                   | 57.45                      | 100                  | 0                       | P                     | V             |
|                                                  |                                                                                             | 17160                | 52.69               | -15.51                  | 68.2                        | 45.33                   | 42.53                         | 20.7                    | 55.87                      | 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 VHT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 142<br>5710MHz | *                                                                                           | 5710                 | 105.58              | -                       | -                           | 94.2                      | 34.6                          | 12.06                   | 35.28                      | 162                  | 308                     | P                       | H               |
|                                        | *                                                                                           | 5710                 | 96.84               | -                       | -                           | 85.46                     | 34.6                          | 12.06                   | 35.28                      | 162                  | 308                     | A                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        | *                                                                                           | 5710                 | 107.18              | -                       | -                           | 95.8                      | 34.6                          | 12.06                   | 35.28                      | 269                  | 296                     | P                       | V               |
|                                        | *                                                                                           | 5710                 | 98.72               | -                       | -                           | 87.34                     | 34.6                          | 12.06                   | 35.28                      | 269                  | 296                     | A                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |

**Band 3 - Straddle Channel****WIFI 802.11ac VHT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2                              | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11ac<br/>VHT40<br/>CH 142<br/>5710MHz</b> |                                                                                             | 11420                | 45.09               | -28.91                  | 74                          | 46.24                     | 39.17                         | 17.16                   | 57.48                      | 100                  | 0                       | P                       | H               |
|                                                  |                                                                                             | 17130                | 49.76               | -18.44                  | 68.2                        | 42.35                     | 42.59                         | 20.67                   | 55.85                      | 100                  | 0                       | P                       | H               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |                                                                                             | 11420                | 45.55               | -28.45                  | 74                          | 46.7                      | 39.17                         | 17.16                   | 57.48                      | 100                  | 0                       | P                       | V               |
|                                                  |                                                                                             | 17130                | 49.89               | -18.31                  | 68.2                        | 42.48                     | 42.59                         | 20.67                   | 55.85                      | 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<br>Ant.<br>1+2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz | *                                                                                           | 5690                 | 101.12              | -                       | -                           | 89.8                    | 34.6                          | 12                      | 35.28                      | 176                  | 308                     | P                     | H             |
|                                        | *                                                                                           | 5690                 | 93.3                | -                       | -                           | 81.98                   | 34.6                          | 12                      | 35.28                      | 176                  | 308                     | A                     | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        | *                                                                                           | 5690                 | 103.91              | -                       | -                           | 92.59                   | 34.6                          | 12                      | 35.28                      | 269                  | 296                     | P                     | V             |
|                                        | *                                                                                           | 5690                 | 95.5                | -                       | -                           | 84.18                   | 34.6                          | 12                      | 35.28                      | 269                  | 296                     | A                     | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |

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

| WIFI<br>Ant.<br>1+2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |                                                                                             | 11380                | 44.3                | -29.7                   | 74                          | 45.59                   | 39.11                         | 17.16                   | 57.56                      | 100                  | 0                       | P                     | H             |
|                                        |                                                                                             | 17070                | 48.54               | -19.66                  | 68.2                        | 41.03                   | 42.69                         | 20.65                   | 55.83                      | 100                  | 0                       | P                     | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             | 11380                | 44.42               | -29.58                  | 74                          | 45.71                   | 39.11                         | 17.16                   | 57.56                      | 100                  | 0                       | P                     | V             |
|                                        |                                                                                             | 17070                | 48.84               | -19.36                  | 68.2                        | 41.33                   | 42.69                         | 20.65                   | 55.83                      | 100                  | 0                       | P                     | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |


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

| WIFI                                   | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|----------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                                   |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1+2                                    |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac<br>VHT40<br>CH 102<br>5510MHz |      | 5456.56   | 55.38      | -18.62 | 74         | 44.26    | 34.47    | 11.89  | 35.24  | 138    | 4       | P     | H     |
|                                        |      | 5469.28   | 61.28      | -6.92  | 68.2       | 50.12    | 34.51    | 11.89  | 35.24  | 138    | 4       | P     | H     |
|                                        |      | 5459.68   | 49.87      | -4.13  | 54         | 38.75    | 34.47    | 11.89  | 35.24  | 138    | 4       | P     | H     |
|                                        | *    | 5510      | 104.01     | 30.01  | 74         | 92.76    | 34.6     | 11.89  | 35.24  | 138    | 4       | P     | H     |
|                                        | *    | 5510      | 95.91      | 41.91  | 54         | 84.66    | 34.6     | 11.89  | 35.24  | 138    | 4       | A     | H     |
|                                        |      | 5755.9    | 49.24      | -18.96 | 68.2       | 37.82    | 34.6     | 12.11  | 35.29  | 138    | 4       | P     | H     |
|                                        |      | 5441.92   | 56.26      | -17.74 | 74         | 45.18    | 34.43    | 11.89  | 35.24  | 102    | 335     | P     | V     |
|                                        |      | 5464.72   | 63.67      | -4.53  | 68.2       | 52.51    | 34.51    | 11.89  | 35.24  | 102    | 335     | P     | V     |
|                                        |      | 5459.44   | 53.35      | -1.65  | 54         | 41.23    | 34.47    | 11.89  | 35.24  | 102    | 335     | P     | V     |
|                                        | *    | 5510      | 106.05     | 32.05  | 74         | 94.8     | 34.6     | 11.89  | 35.24  | 102    | 335     | P     | V     |
|                                        | *    | 5510      | 97.44      | 43.44  | 54         | 86.19    | 34.6     | 11.89  | 35.24  | 102    | 335     | A     | V     |
|                                        |      | 5752.925  | 49.31      | -18.89 | 68.2       | 37.89    | 34.6     | 12.11  | 35.29  | 102    | 335     | P     | V     |

**Band 3 - 5470~5725MHz****WIFI 802.11ac VHT40 (Harmonic @ 3m) (With NB)**

| WIFI<br>Ant.<br>1+2                              | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11ac<br/>VHT40<br/>CH 102<br/>5510MHz</b> |      | 11020                | 44.27               | -29.73                  | 74                          | 46.93                     | 38.53                         | 17.17                   | 58.36                      | 100                  | 0                       | P                       | H               |
|                                                  |      | 16530                | 47.41               | -20.79                  | 68.2                        | 40.25                     | 42.99                         | 20.25                   | 56.08                      | 100                  | 0                       | P                       | H               |
|                                                  |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |      | 11020                | 44.05               | -29.95                  | 74                          | 46.71                     | 38.53                         | 17.17                   | 58.36                      | 100                  | 0                       | P                       | V               |
|                                                  |      | 16530                | 47.81               | -20.39                  | 68.2                        | 40.65                     | 42.99                         | 20.25                   | 56.08                      | 100                  | 0                       | P                       | V               |
|                                                  |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |

**Band 3 - 5470~5725MHz****WIFI 802.11ac VHT40 (Band Edge @ 3m) (Earphone2)**

| WIFI                                                               | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|--------------------------------------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                                                               |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1+2                                                                |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| <b>802.11ac</b><br><b>VHT40</b><br><b>CH 102</b><br><b>5510MHz</b> |      | 5453.92   | 57.27      | -16.73 | 74         | 46.15    | 34.47    | 11.89  | 35.24  | 137    | 5       | P     | H     |
|                                                                    |      | 5466.64   | 61.89      | -6.31  | 68.2       | 50.73    | 34.51    | 11.89  | 35.24  | 137    | 5       | P     | H     |
|                                                                    |      | 5457.52   | 49.66      | -4.34  | 54         | 38.54    | 34.47    | 11.89  | 35.24  | 137    | 5       | A     | H     |
|                                                                    | *    | 5510      | 103.77     | -      | -          | 92.52    | 34.6     | 11.89  | 35.24  | 137    | 5       | P     | H     |
|                                                                    | *    | 5510      | 95.68      | -      | -          | 84.43    | 34.6     | 11.89  | 35.24  | 137    | 5       | A     | H     |
|                                                                    |      | 5747.325  | 50.03      | -18.17 | 68.2       | 38.61    | 34.6     | 12.11  | 35.29  | 137    | 5       | P     | H     |
|                                                                    |      | 5452      | 56.62      | -17.38 | 74         | 45.5     | 34.47    | 11.89  | 35.24  | 102    | 337     | P     | V     |
|                                                                    |      | 5469.28   | 64.17      | -4.03  | 68.2       | 53.01    | 34.51    | 11.89  | 35.24  | 102    | 337     | P     | V     |
|                                                                    |      | 5458.72   | 53.17      | -1.83  | 54         | 41.05    | 34.47    | 11.89  | 35.24  | 102    | 337     | A     | V     |
|                                                                    | *    | 5510      | 105.92     | -      | -          | 94.67    | 34.6     | 11.89  | 35.24  | 102    | 337     | P     | V     |
|                                                                    | *    | 5510      | 97.26      | -      | -          | 86.01    | 34.6     | 11.89  | 35.24  | 102    | 337     | A     | V     |
|                                                                    |      | 5744.525  | 48.85      | -19.35 | 68.2       | 37.43    | 34.6     | 12.11  | 35.29  | 102    | 337     | P     | V     |

**Band 3 - 5470~5725MHz****WIFI 802.11ac VHT40 (Harmonic @ 3m) (Earphone2)**

| WIFI<br>Ant.<br>1+2                              | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11ac<br/>VHT40<br/>CH 102<br/>5510MHz</b> |      | 11020                | 44.14               | -29.86                  | 74                          | 46.8                      | 38.53                         | 17.17                   | 58.36                      | 100                  | 0                       | P                     | H             |
|                                                  |      | 16530                | 47.27               | -20.93                  | 68.2                        | 40.11                     | 42.99                         | 20.25                   | 56.08                      | 100                  | 0                       | P                     | H             |
|                                                  |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                                  |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                                  |      | 11020                | 43.99               | -30.01                  | 74                          | 46.65                     | 38.53                         | 17.17                   | 58.36                      | 100                  | 0                       | P                     | V             |
|                                                  |      | 16530                | 47.68               | -20.52                  | 68.2                        | 40.52                     | 42.99                         | 20.25                   | 56.08                      | 100                  | 0                       | P                     | V             |
|                                                  |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |
|                                                  |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | V             |

## Emission below 1GHz

**WIFI 802.11n VHT40 (LF @ 3m)**

| WIFI                   | Note                                                                       | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|------------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                   |                                                                            |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1+2                    |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>VHT40<br>LF |                                                                            | 148.53    | 39.64      | -3.86  | 43.5       | 51.21  | 17.75    | 1.78   | 31.1   | 100    | 277     | P     | H     |
|                        |                                                                            | 227.37    | 29.28      | -16.72 | 46         | 41.25  | 16.96    | 2.07   | 31     |        |         | P     | H     |
|                        |                                                                            | 298.65    | 35.17      | -10.83 | 46         | 44.07  | 19.79    | 2.32   | 31.01  |        |         | P     | H     |
|                        |                                                                            | 436.5     | 27.29      | -18.71 | 46         | 32.21  | 22.91    | 2.89   | 30.72  |        |         | P     | H     |
|                        |                                                                            | 765.5     | 30.68      | -15.32 | 46         | 29.88  | 27.35    | 3.82   | 30.37  |        |         | P     | H     |
|                        |                                                                            | 986       | 34.33      | -19.67 | 54         | 30.33  | 30.27    | 3.98   | 30.25  |        |         | P     | H     |
|                        |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                            | 71.31     | 33.77      | -6.23  | 40         | 50.85  | 12.92    | 1.28   | 31.28  | 100    | 58      | P     | V     |
|                        |                                                                            | 116.4     | 32.91      | -10.59 | 43.5       | 44.81  | 17.68    | 1.55   | 31.13  |        |         | P     | V     |
|                        |                                                                            | 220.62    | 29.63      | -16.37 | 46         | 42.08  | 16.48    | 2.07   | 31     |        |         | P     | V     |
|                        |                                                                            | 326.6     | 27.88      | -18.12 | 46         | 35.92  | 20.55    | 2.41   | 31     |        |         | P     | V     |
|                        |                                                                            | 585.6     | 29.24      | -16.76 | 46         | 31.37  | 25.17    | 3.36   | 30.66  |        |         | P     | V     |
|                        |                                                                            | 928.6     | 33.25      | -12.75 | 46         | 29.81  | 29.68    | 4.12   | 30.36  |        |         | 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    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2     |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Level(dBμV/m) =

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

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

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



## Appendix B. Radiated Spurious Emission

|                 |                                                              |                     |         |
|-----------------|--------------------------------------------------------------|---------------------|---------|
| Test Engineer : | Luke Chang, Ken Wu, Derreck Chen, Jesse Wang, and James Chiu | Temperature :       | 21~24°C |
|                 |                                                              | Relative Humidity : | 50~55%  |

### Band 1 - 5150~5250MHz

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

| WIFI Ant. 1+2                | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. ( P/A ) | Pol. ( H/V ) |
|------------------------------|------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11ac VHT20 CH 36 5180MHz |      | 5148.72           | 60.29            | -13.71            | 74                    | 50.61               | 33.69                   | 11.21             | 35.22                | 100            | 32                | P                 | H            |
|                              |      | 5149.24           | 52.72            | -1.28             | 54                    | 43.04               | 33.69                   | 11.21             | 35.22                | 100            | 32                | A                 | H            |
|                              | *    | 5180              | 110.6            | -                 | -                     | 100.83              | 33.78                   | 11.21             | 35.22                | 100            | 32                | P                 | H            |
|                              | *    | 5180              | 103.09           | -                 | -                     | 93.32               | 33.78                   | 11.21             | 35.22                | 100            | 32                | A                 | H            |
|                              |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | H            |
|                              |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | H            |
|                              |      | 5148.2            | 61.4             | -12.6             | 74                    | 51.72               | 33.69                   | 11.21             | 35.22                | 163            | 317               | P                 | V            |
|                              |      | 5147.42           | 52.22            | -1.78             | 54                    | 42.54               | 33.69                   | 11.21             | 35.22                | 163            | 317               | A                 | V            |
|                              | *    | 5180              | 110.66           | -                 | -                     | 100.89              | 33.78                   | 11.21             | 35.22                | 163            | 317               | P                 | V            |
|                              | *    | 5180              | 104.33           | -                 | -                     | 94.56               | 33.78                   | 11.21             | 35.22                | 163            | 317               | A                 | V            |
|                              |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | V            |
|                              |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | V            |
| 802.11ac VHT20 CH 44 5220MHz |      | 5147.16           | 53.84            | -20.16            | 74                    | 44.16               | 33.69                   | 11.21             | 35.22                | 100            | 32                | P                 | H            |
|                              |      | 5149.24           | 45.03            | -8.97             | 54                    | 35.35               | 33.69                   | 11.21             | 35.22                | 100            | 32                | A                 | H            |
|                              | *    | 5220              | 113.27           | -                 | -                     | 103.38              | 33.86                   | 11.25             | 35.22                | 100            | 32                | P                 | H            |
|                              | *    | 5220              | 106.59           | -                 | -                     | 96.7                | 33.86                   | 11.25             | 35.22                | 100            | 32                | A                 | H            |
|                              |      | 5441.76           | 49.73            | -24.27            | 74                    | 38.65               | 34.43                   | 11.89             | 35.24                | 100            | 32                | P                 | H            |
|                              |      | 5445.84           | 41.55            | -12.45            | 54                    | 30.43               | 34.47                   | 11.89             | 35.24                | 100            | 32                | A                 | H            |
|                              |      | 5150              | 52.48            | -21.52            | 74                    | 42.8                | 33.69                   | 11.21             | 35.22                | 182            | 310               | P                 | V            |
|                              |      | 5150              | 44.15            | -9.85             | 54                    | 34.47               | 33.69                   | 11.21             | 35.22                | 182            | 310               | A                 | V            |
|                              | *    | 5220              | 112.31           | -                 | -                     | 102.42              | 33.86                   | 11.25             | 35.22                | 182            | 310               | P                 | V            |
|                              | *    | 5220              | 104.89           | -                 | -                     | 95                  | 33.86                   | 11.25             | 35.22                | 182            | 310               | A                 | V            |
|                              |      | 5361.36           | 49.56            | -24.44            | 74                    | 38.78               | 34.25                   | 11.76             | 35.23                | 182            | 310               | P                 | V            |
|                              |      | 5429.52           | 43.05            | -10.95            | 54                    | 31.97               | 34.43                   | 11.89             | 35.24                | 182            | 310               | A                 | V            |



|                                                                   |                                                                                             |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5141.18 | 51.66  | -22.34 | 74 | 41.98  | 33.69 | 11.21 | 35.22 | 102 | 32  | P | H |
|                                                                   |                                                                                             | 5150    | 42.62  | -11.38 | 54 | 32.94  | 33.69 | 11.21 | 35.22 | 102 | 32  | A | H |
|                                                                   | *                                                                                           | 5240    | 111.78 | -      | -  | 101.71 | 33.91 | 11.38 | 35.22 | 102 | 32  | P | H |
|                                                                   | *                                                                                           | 5240    | 104.8  | -      | -  | 94.73  | 33.91 | 11.38 | 35.22 | 102 | 32  | A | H |
|                                                                   |                                                                                             | 5355.12 | 49.77  | -24.23 | 74 | 39.03  | 34.21 | 11.76 | 35.23 | 102 | 32  | P | H |
|                                                                   |                                                                                             | 5450.16 | 41.85  | -12.15 | 54 | 30.73  | 34.47 | 11.89 | 35.24 | 102 | 32  | A | H |
|                                                                   |                                                                                             | 5102.18 | 50.24  | -23.76 | 74 | 40.72  | 33.56 | 11.18 | 35.22 | 144 | 297 | P | V |
|                                                                   |                                                                                             | 5140.14 | 41.52  | -12.48 | 54 | 31.84  | 33.69 | 11.21 | 35.22 | 144 | 297 | A | V |
|                                                                   | *                                                                                           | 5240    | 112.88 | -      | -  | 102.81 | 33.91 | 11.38 | 35.22 | 144 | 297 | P | V |
|                                                                   | *                                                                                           | 5240    | 105.99 | -      | -  | 95.92  | 33.91 | 11.38 | 35.22 | 144 | 297 | A | V |
|                                                                   |                                                                                             | 5451.36 | 51.39  | -22.61 | 74 | 40.27  | 34.47 | 11.89 | 35.24 | 144 | 297 | P | V |
|                                                                   |                                                                                             | 5450.64 | 44.06  | -9.94  | 54 | 32.94  | 34.47 | 11.89 | 35.24 | 144 | 297 | A | V |
| <b>Remark</b>                                                     | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT20<br>CH 36<br>5180MHz |                                                                                             | 10360                | 45.13               | -28.87                  | 74                          | 48.08                   | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15540                | 45.98               | -28.02                  | 74                          | 42.48                   | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10360                | 46.45               | -27.55                  | 74                          | 49.4                    | 39.09                         | 17.17                   | 59.21                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15540                | 45.71               | -28.29                  | 74                          | 42.21                   | 41.07                         | 19.61                   | 57.18                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT20<br>CH 44<br>5220MHz |                                                                                             | 10440                | 44.93               | -29.07                  | 74                          | 47.76                   | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15660                | 45.21               | -28.79                  | 74                          | 41.33                   | 41.31                         | 19.68                   | 57.11                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10440                | 45.29               | -28.71                  | 74                          | 48.12                   | 39.15                         | 17.17                   | 59.15                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15660                | 46.1                | -27.9                   | 74                          | 42.22                   | 41.31                         | 19.68                   | 57.11                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT20<br>CH 48<br>5240MHz |                                                                                             | 10480                | 44.78               | -29.22                  | 74                          | 47.53                   | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15720                | 46.12               | -27.88                  | 74                          | 42.01                   | 41.45                         | 19.73                   | 57.07                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10480                | 46.72               | -27.28                  | 74                          | 49.47                   | 39.19                         | 17.17                   | 59.11                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15720                | 46.17               | -27.83                  | 74                          | 42.06                   | 41.45                         | 19.73                   | 57.07                      | 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 VHT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 38<br>5190MHz |                                                                                             | 5145.86              | 61.38               | -12.62                  | 74                          | 51.7                      | 33.69                         | 11.21                   | 35.22                      | 100                  | 27                      | P                       | H               |
|                                       |                                                                                             | 5149.5               | 53.53               | -1.47                   | 54                          | 42.85                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 27                      | P                       | H               |
|                                       | *                                                                                           | 5190                 | 105.32              | -                       | -                           | 95.51                     | 33.78                         | 11.25                   | 35.22                      | 100                  | 27                      | P                       | H               |
|                                       | *                                                                                           | 5190                 | 97.32               | -                       | -                           | 87.51                     | 33.78                         | 11.25                   | 35.22                      | 100                  | 27                      | A                       | H               |
|                                       |                                                                                             | 5363.52              | 48.75               | -25.25                  | 74                          | 37.97                     | 34.25                         | 11.76                   | 35.23                      | 100                  | 27                      | P                       | H               |
|                                       |                                                                                             | 5456.64              | 40.19               | -13.81                  | 54                          | 29.07                     | 34.47                         | 11.89                   | 35.24                      | 100                  | 27                      | A                       | H               |
|                                       |                                                                                             | 5148.46              | 57.77               | -16.23                  | 74                          | 48.09                     | 33.69                         | 11.21                   | 35.22                      | 172                  | 303                     | P                       | V               |
|                                       |                                                                                             | 5147.94              | 53.04               | -1.96                   | 54                          | 42.36                     | 33.69                         | 11.21                   | 35.22                      | 172                  | 303                     | A                       | V               |
|                                       | *                                                                                           | 5190                 | 105.03              | -                       | -                           | 95.22                     | 33.78                         | 11.25                   | 35.22                      | 172                  | 303                     | P                       | V               |
|                                       | *                                                                                           | 5190                 | 97.86               | -                       | -                           | 88.05                     | 33.78                         | 11.25                   | 35.22                      | 172                  | 303                     | A                       | V               |
|                                       |                                                                                             | 5445.12              | 48.09               | -25.91                  | 74                          | 37.01                     | 34.43                         | 11.89                   | 35.24                      | 172                  | 303                     | P                       | V               |
|                                       |                                                                                             | 5350.32              | 40.6                | -13.4                   | 54                          | 29.86                     | 34.21                         | 11.76                   | 35.23                      | 172                  | 303                     | A                       | V               |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz |                                                                                             | 5132.6               | 59.79               | -14.21                  | 74                          | 50.18                     | 33.65                         | 11.18                   | 35.22                      | 100                  | 27                      | P                       | H               |
|                                       |                                                                                             | 5146.12              | 47.67               | -6.33                   | 54                          | 37.99                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 27                      | A                       | H               |
|                                       | *                                                                                           | 5230                 | 109.3               | -                       | -                           | 99.23                     | 33.91                         | 11.38                   | 35.22                      | 100                  | 27                      | P                       | H               |
|                                       | *                                                                                           | 5230                 | 101.71              | -                       | -                           | 91.64                     | 33.91                         | 11.38                   | 35.22                      | 100                  | 27                      | A                       | H               |
|                                       |                                                                                             | 5426.88              | 50.12               | -23.88                  | 74                          | 39.09                     | 34.38                         | 11.89                   | 35.24                      | 100                  | 27                      | P                       | H               |
|                                       |                                                                                             | 5351.28              | 41.4                | -12.6                   | 54                          | 30.66                     | 34.21                         | 11.76                   | 35.23                      | 100                  | 27                      | A                       | H               |
|                                       |                                                                                             | 5136.76              | 57.09               | -16.91                  | 74                          | 47.48                     | 33.65                         | 11.18                   | 35.22                      | 172                  | 313                     | P                       | V               |
|                                       |                                                                                             | 5150                 | 49.21               | -4.79                   | 54                          | 39.53                     | 33.69                         | 11.21                   | 35.22                      | 172                  | 313                     | A                       | V               |
|                                       | *                                                                                           | 5230                 | 109.45              | -                       | -                           | 99.38                     | 33.91                         | 11.38                   | 35.22                      | 172                  | 313                     | P                       | V               |
|                                       | *                                                                                           | 5230                 | 102.07              | -                       | -                           | 92                        | 33.91                         | 11.38                   | 35.22                      | 172                  | 313                     | A                       | V               |
|                                       |                                                                                             | 5360.88              | 51.25               | -22.75                  | 74                          | 40.47                     | 34.25                         | 11.76                   | 35.23                      | 172                  | 313                     | P                       | V               |
|                                       |                                                                                             | 5350.32              | 43.04               | -10.96                  | 54                          | 32.3                      | 34.21                         | 11.76                   | 35.23                      | 172                  | 313                     | A                       | V               |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 1 5150~5250MHz

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

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 38<br>5190MHz |                                                                                             | 10380                | 44.63               | -29.37                  | 74                          | 47.54                     | 39.11                         | 17.17                   | 59.19                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15570                | 46.89               | -27.11                  | 74                          | 43.28                     | 41.14                         | 19.63                   | 57.16                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10380                | 44.94               | -29.06                  | 74                          | 47.85                     | 39.11                         | 17.17                   | 59.19                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15570                | 45.74               | -28.26                  | 74                          | 42.13                     | 41.14                         | 19.63                   | 57.16                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz |                                                                                             | 10460                | 44.18               | -29.82                  | 74                          | 46.99                     | 39.16                         | 17.17                   | 59.14                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15690                | 45.62               | -28.38                  | 74                          | 41.63                     | 41.38                         | 19.7                    | 57.09                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10460                | 45.62               | -28.38                  | 74                          | 48.43                     | 39.16                         | 17.17                   | 59.14                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15690                | 46                  | -28                     | 74                          | 42.01                     | 41.38                         | 19.7                    | 57.09                      | 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<br>Ant.<br>1+2                             | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11ac<br/>VHT80<br/>CH 42<br/>5210MHz</b> |                                                                                             | 5145.08              | 58.2                | -15.8                   | 74                          | 48.52                   | 33.69                         | 11.21                   | 35.22                      | 217                  | 0                       | P                     | H             |
|                                                 |                                                                                             | 5144.04              | 50.67               | -3.33                   | 54                          | 40.99                   | 33.69                         | 11.21                   | 35.22                      | 217                  | 0                       | A                     | H             |
|                                                 | *                                                                                           | 5210                 | 106.07              | -                       | -                           | 96.18                   | 33.86                         | 11.25                   | 35.22                      | 217                  | 0                       | P                     | H             |
|                                                 |                                                                                             | 5432.16              | 49.2                | -24.8                   | 74                          | 38.12                   | 34.43                         | 11.89                   | 35.24                      | 217                  | 0                       | P                     | H             |
|                                                 |                                                                                             | 5350.56              | 40.3                | -13.7                   | 54                          | 29.56                   | 34.21                         | 11.76                   | 35.23                      | 217                  | 0                       | A                     | H             |
|                                                 |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                 |                                                                                             | 5119.6               | 64.34               | -9.66                   | 74                          | 54.78                   | 33.6                          | 11.18                   | 35.22                      | 287                  | 0                       | P                     | V             |
|                                                 |                                                                                             | 5149.5               | 52.92               | -1.08                   | 54                          | 43.24                   | 33.69                         | 11.21                   | 35.22                      | 287                  | 0                       | A                     | V             |
|                                                 | *                                                                                           | 5210                 | 107.34              | -                       | -                           | 97.45                   | 33.86                         | 11.25                   | 35.22                      | 287                  | 0                       | P                     | V             |
|                                                 | *                                                                                           | 5210                 | 97.59               | -                       | -                           | 87.7                    | 33.86                         | 11.25                   | 35.22                      | 287                  | 0                       | A                     | V             |
|                                                 |                                                                                             | 5407.2               | 49.88               | -24.12                  | 74                          | 38.88                   | 34.34                         | 11.89                   | 35.23                      | 287                  | 0                       | P                     | V             |
|                                                 |                                                                                             | 5350.56              | 41.94               | -12.06                  | 54                          | 31.2                    | 34.21                         | 11.76                   | 35.23                      | 287                  | 0                       | 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<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |                                                                                             | 10420                | 43.98               | -30.02                  | 74                          | 46.85                   | 39.13                         | 17.17                   | 59.17                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15630                | 45.51               | -28.49                  | 74                          | 41.67                   | 41.28                         | 19.68                   | 57.12                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10420                | 43.72               | -30.28                  | 74                          | 46.59                   | 39.13                         | 17.17                   | 59.17                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15630                | 46.9                | -27.1                   | 74                          | 43.06                   | 41.28                         | 19.68                   | 57.12                      | 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 VHT20 (Band Edge @ 3m)

| WIFI                                  | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                  |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2                                   |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT20<br>CH 52<br>5260MHz |      | 5129.22   | 50.64      | -23.36 | 74         | 41.03    | 33.65    | 11.18  | 35.22  | 100    | 25      | P       | H       |
|                                       |      | 5147.68   | 41.06      | -12.94 | 54         | 31.38    | 33.69    | 11.21  | 35.22  | 100    | 25      | A       | H       |
|                                       | *    | 5260      | 111.91     | -      | -          | 101.77   | 33.99    | 11.38  | 35.23  | 100    | 25      | P       | H       |
|                                       | *    | 5260      | 105.23     | -      | -          | 95.09    | 33.99    | 11.38  | 35.23  | 100    | 25      | A       | H       |
|                                       |      | 5410.8    | 49.74      | -24.26 | 74         | 38.74    | 34.34    | 11.89  | 35.23  | 100    | 25      | P       | H       |
|                                       |      | 5355.36   | 41.17      | -12.83 | 54         | 30.43    | 34.21    | 11.76  | 35.23  | 100    | 25      | P       | H       |
|                                       |      | 5085.02   | 50.18      | -23.82 | 74         | 40.74    | 33.52    | 11.14  | 35.22  | 277    | 315     | P       | V       |
|                                       |      | 5144.82   | 40.64      | -13.36 | 54         | 30.96    | 33.69    | 11.21  | 35.22  | 277    | 315     | A       | V       |
|                                       | *    | 5260      | 111.51     | -      | -          | 101.37   | 33.99    | 11.38  | 35.23  | 277    | 315     | P       | V       |
|                                       | *    | 5260      | 103.82     | -      | -          | 93.68    | 33.99    | 11.38  | 35.23  | 277    | 315     | A       | V       |
|                                       |      | 5442      | 49.95      | -24.05 | 74         | 38.87    | 34.43    | 11.89  | 35.24  | 277    | 315     | P       | V       |
|                                       |      | 5404.56   | 40.87      | -13.13 | 54         | 29.87    | 34.34    | 11.89  | 35.23  | 277    | 315     | A       | V       |
| 802.11ac<br>VHT20<br>CH 60<br>5300MHz |      | 5048.88   | 50.52      | -23.48 | 74         | 41.19    | 33.43    | 11.11  | 35.21  | 100    | 294     | P       | H       |
|                                       |      | 5076.44   | 40.18      | -13.82 | 54         | 30.73    | 33.52    | 11.14  | 35.21  | 100    | 294     | A       | H       |
|                                       | *    | 5300      | 107.66     | -      | -          | 97.3     | 34.08    | 11.51  | 35.23  | 100    | 294     | P       | H       |
|                                       | *    | 5300      | 100.62     | -      | -          | 90.26    | 34.08    | 11.51  | 35.23  | 100    | 294     | A       | H       |
|                                       |      | 5355.12   | 52.89      | -21.11 | 74         | 42.15    | 34.21    | 11.76  | 35.23  | 100    | 294     | P       | H       |
|                                       |      | 5350.08   | 44.01      | -9.99  | 54         | 33.27    | 34.21    | 11.76  | 35.23  | 100    | 294     | A       | H       |
|                                       |      | 5081.64   | 48.95      | -25.05 | 74         | 39.5     | 33.52    | 11.14  | 35.21  | 274    | 0       | P       | V       |
|                                       |      | 5079.04   | 40.69      | -13.31 | 54         | 31.24    | 33.52    | 11.14  | 35.21  | 274    | 0       | A       | V       |
|                                       | *    | 5300      | 111.18     | -      | -          | 100.82   | 34.08    | 11.51  | 35.23  | 274    | 0       | P       | V       |
|                                       | *    | 5300      | 103.5      | -      | -          | 93.14    | 34.08    | 11.51  | 35.23  | 274    | 0       | A       | V       |
|                                       |      | 5370.48   | 53.28      | -20.72 | 74         | 42.5     | 34.25    | 11.76  | 35.23  | 274    | 0       | P       | V       |
|                                       |      | 5350.56   | 46.83      | -7.17  | 54         | 36.09    | 34.21    | 11.76  | 35.23  | 274    | 0       | A       | V       |



|                                                                   |                                                                                             |         |        |        |    |        |       |       |       |     |    |   |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|-------|-------|-----|----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5320    | 110.15 | -      | -  | 99.63  | 34.12 | 11.63 | 35.23 | 100 | 19 | P | H |
|                                                                   | *                                                                                           | 5320    | 103.58 | -      | -  | 93.06  | 34.12 | 11.63 | 35.23 | 100 | 19 | A | H |
|                                                                   |                                                                                             | 5350.72 | 57.19  | -16.81 | 74 | 46.45  | 34.21 | 11.76 | 35.23 | 100 | 19 | P | H |
|                                                                   |                                                                                             | 5350.24 | 51.97  | -2.03  | 54 | 41.23  | 34.21 | 11.76 | 35.23 | 100 | 19 | A | H |
|                                                                   |                                                                                             |         |        |        |    |        |       |       |       |     |    |   | H |
|                                                                   |                                                                                             |         |        |        |    |        |       |       |       |     |    |   | H |
|                                                                   | *                                                                                           | 5320    | 110.75 | -      | -  | 100.23 | 34.12 | 11.63 | 35.23 | 284 | 0  | P | V |
|                                                                   | *                                                                                           | 5320    | 103.06 | -      | -  | 92.54  | 34.12 | 11.63 | 35.23 | 284 | 0  | A | V |
|                                                                   |                                                                                             | 5351.52 | 58.03  | -15.97 | 74 | 47.29  | 34.21 | 11.76 | 35.23 | 284 | 0  | P | V |
|                                                                   |                                                                                             | 5350.56 | 53.57  | -1.43  | 54 | 41.83  | 34.21 | 11.76 | 35.23 | 284 | 0  | 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 802.11ac VHT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT20<br>CH 52<br>5260MHz |                                                                                             | 10520                | 46.12               | -27.88                  | 74                          | 48.85                   | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15780                | 46.93               | -27.07                  | 74                          | 42.66                   | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10520                | 44.81               | -29.19                  | 74                          | 47.54                   | 39.18                         | 17.17                   | 59.08                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15780                | 46.23               | -27.77                  | 74                          | 41.96                   | 41.55                         | 19.75                   | 57.03                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT20<br>CH 60<br>5300MHz |                                                                                             | 10600                | 43.56               | -30.44                  | 74                          | 46.29                   | 39.06                         | 17.17                   | 58.96                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15900                | 47.56               | -26.44                  | 74                          | 42.91                   | 41.79                         | 19.82                   | 56.96                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10600                | 44.31               | -29.69                  | 74                          | 47.04                   | 39.06                         | 17.17                   | 58.96                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15900                | 47.38               | -26.62                  | 74                          | 42.73                   | 41.79                         | 19.82                   | 56.96                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT20<br>CH 64<br>5320MHz |                                                                                             | 10640                | 43.57               | -30.43                  | 74                          | 46.3                    | 39.01                         | 17.17                   | 58.91                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15960                | 47.83               | -26.17                  | 74                          | 42.95                   | 41.93                         | 19.87                   | 56.92                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10640                | 45.02               | -28.98                  | 74                          | 47.75                   | 39.01                         | 17.17                   | 58.91                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15960                | 46.15               | -27.85                  | 74                          | 41.27                   | 41.93                         | 19.87                   | 56.92                      | 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 VHT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 54<br>5270MHz |                                                                                             | 5148.72              | 52.09               | -21.91                  | 74                          | 42.41                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 35                      | P                       | H               |
|                                       |                                                                                             | 5148.98              | 43.65               | -10.35                  | 54                          | 33.97                     | 33.69                         | 11.21                   | 35.22                      | 100                  | 35                      | A                       | H               |
|                                       | *                                                                                           | 5270                 | 106.14              | -                       | -                           | 95.87                     | 33.99                         | 11.51                   | 35.23                      | 100                  | 35                      | P                       | H               |
|                                       | *                                                                                           | 5270                 | 98.92               | -                       | -                           | 88.65                     | 33.99                         | 11.51                   | 35.23                      | 100                  | 35                      | A                       | H               |
|                                       |                                                                                             | 5361.6               | 52.35               | -21.65                  | 74                          | 41.57                     | 34.25                         | 11.76                   | 35.23                      | 100                  | 35                      | P                       | H               |
|                                       |                                                                                             | 5352.24              | 44.9                | -9.1                    | 54                          | 34.16                     | 34.21                         | 11.76                   | 35.23                      | 100                  | 35                      | A                       | H               |
|                                       |                                                                                             | 5149.5               | 53.38               | -20.62                  | 74                          | 43.7                      | 33.69                         | 11.21                   | 35.22                      | 370                  | 0                       | P                       | V               |
|                                       |                                                                                             | 5149.5               | 43.78               | -10.22                  | 54                          | 34.1                      | 33.69                         | 11.21                   | 35.22                      | 370                  | 0                       | A                       | V               |
|                                       | *                                                                                           | 5270                 | 107.06              | -                       | -                           | 96.79                     | 33.99                         | 11.51                   | 35.23                      | 370                  | 0                       | P                       | V               |
|                                       | *                                                                                           | 5270                 | 100.38              | -                       | -                           | 90.11                     | 33.99                         | 11.51                   | 35.23                      | 370                  | 0                       | A                       | V               |
|                                       |                                                                                             | 5350.56              | 53.6                | -20.4                   | 74                          | 42.86                     | 34.21                         | 11.76                   | 35.23                      | 370                  | 0                       | P                       | V               |
|                                       |                                                                                             | 5350.8               | 45.23               | -8.77                   | 54                          | 34.49                     | 34.21                         | 11.76                   | 35.23                      | 370                  | 0                       | A                       | V               |
| 802.11ac<br>VHT40<br>CH 62<br>5310MHz |                                                                                             | 5034.58              | 49.66               | -24.34                  | 74                          | 40.37                     | 33.39                         | 11.11                   | 35.21                      | 200                  | 37                      | P                       | H               |
|                                       |                                                                                             | 5113.36              | 40.13               | -13.87                  | 54                          | 30.57                     | 33.6                          | 11.18                   | 35.22                      | 200                  | 37                      | A                       | H               |
|                                       | *                                                                                           | 5310                 | 102.19              | -                       | -                           | 91.67                     | 34.12                         | 11.63                   | 35.23                      | 200                  | 37                      | P                       | H               |
|                                       | *                                                                                           | 5310                 | 95.22               | -                       | -                           | 84.7                      | 34.12                         | 11.63                   | 35.23                      | 200                  | 37                      | A                       | H               |
|                                       |                                                                                             | 5354.16              | 60.25               | -13.75                  | 74                          | 49.51                     | 34.21                         | 11.76                   | 35.23                      | 200                  | 37                      | P                       | H               |
|                                       |                                                                                             | 5354.16              | 52.74               | -1.26                   | 54                          | 42                        | 34.21                         | 11.76                   | 35.23                      | 200                  | 37                      | P                       | H               |
|                                       |                                                                                             | 5088.14              | 49.65               | -24.35                  | 74                          | 40.21                     | 33.52                         | 11.14                   | 35.22                      | 368                  | 0                       | P                       | V               |
|                                       |                                                                                             | 5113.1               | 40.57               | -13.43                  | 54                          | 31.01                     | 33.6                          | 11.18                   | 35.22                      | 368                  | 0                       | A                       | V               |
|                                       | *                                                                                           | 5310                 | 105.04              | -                       | -                           | 94.52                     | 34.12                         | 11.63                   | 35.23                      | 368                  | 0                       | P                       | V               |
|                                       | *                                                                                           | 5310                 | 97.7                | -                       | -                           | 87.18                     | 34.12                         | 11.63                   | 35.23                      | 368                  | 0                       | A                       | V               |
|                                       |                                                                                             | 5351.28              | 57.99               | -16.01                  | 74                          | 47.25                     | 34.21                         | 11.76                   | 35.23                      | 368                  | 0                       | P                       | V               |
|                                       |                                                                                             | 5350.8               | 51.8                | -2.2                    | 54                          | 41.06                     | 34.21                         | 11.76                   | 35.23                      | 368                  | 0                       | A                       | V               |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 2 5250~5350MHz

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

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 54<br>5270MHz |                                                                                             | 10540                | 44.75               | -29.25                  | 74                          | 47.48                     | 39.15                         | 17.17                   | 59.05                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15810                | 45.93               | -28.07                  | 74                          | 41.55                     | 41.62                         | 19.77                   | 57.01                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10540                | 44.09               | -29.91                  | 74                          | 46.82                     | 39.15                         | 17.17                   | 59.05                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15810                | 46.5                | -27.5                   | 74                          | 42.12                     | 41.62                         | 19.77                   | 57.01                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 62<br>5310MHz |                                                                                             | 10620                | 45.04               | -28.96                  | 74                          | 47.77                     | 39.03                         | 17.17                   | 58.93                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15930                | 46.24               | -27.76                  | 74                          | 41.48                     | 41.86                         | 19.84                   | 56.94                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10620                | 43.34               | -30.66                  | 74                          | 46.07                     | 39.03                         | 17.17                   | 58.93                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15930                | 47.04               | -26.96                  | 74                          | 42.28                     | 41.86                         | 19.84                   | 56.94                      | 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<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                             | 5148.72              | 52.84               | -21.16                  | 74                          | 43.16                   | 33.69                         | 11.21                   | 35.22                      | 100                  | 18                      | P                     | H             |
|                                       |                                                                                             | 5148.46              | 44.18               | -9.82                   | 54                          | 34.5                    | 33.69                         | 11.21                   | 35.22                      | 100                  | 18                      | A                     | H             |
|                                       | *                                                                                           | 5290                 | 102.36              | -                       | -                           | 92.04                   | 34.04                         | 11.51                   | 35.23                      | 100                  | 18                      | P                     | H             |
|                                       | *                                                                                           | 5290                 | 92.44               | -                       | -                           | 82.12                   | 34.04                         | 11.51                   | 35.23                      | 100                  | 18                      | A                     | H             |
|                                       |                                                                                             | 5351.28              | 59.07               | -14.93                  | 74                          | 48.33                   | 34.21                         | 11.76                   | 35.23                      | 100                  | 18                      | P                     | H             |
|                                       |                                                                                             | 5354.88              | 52.18               | -1.82                   | 54                          | 41.44                   | 34.21                         | 11.76                   | 35.23                      | 100                  | 18                      | A                     | H             |
|                                       |                                                                                             | 5134.94              | 54.15               | -19.85                  | 74                          | 44.54                   | 33.65                         | 11.18                   | 35.22                      | 369                  | 0                       | P                     | V             |
|                                       |                                                                                             | 5148.72              | 46.07               | -7.93                   | 54                          | 36.39                   | 33.69                         | 11.21                   | 35.22                      | 369                  | 0                       | A                     | V             |
|                                       | *                                                                                           | 5290                 | 102.6               | -                       | -                           | 92.28                   | 34.04                         | 11.51                   | 35.23                      | 369                  | 0                       | P                     | V             |
|                                       | *                                                                                           | 5290                 | 94.56               | -                       | -                           | 84.24                   | 34.04                         | 11.51                   | 35.23                      | 369                  | 0                       | A                     | V             |
|                                       |                                                                                             | 5358                 | 61.1                | -12.9                   | 74                          | 50.36                   | 34.21                         | 11.76                   | 35.23                      | 369                  | 0                       | P                     | V             |
|                                       |                                                                                             | 5350.32              | 51.97               | -2.03                   | 54                          | 41.23                   | 34.21                         | 11.76                   | 35.23                      | 369                  | 0                       | A                     | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |


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

| WIFI<br>Ant.<br>1+2                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                             | 10580                | 44.28               | -29.72                  | 74                          | 47.01                   | 39.08                         | 17.17                   | 58.98                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15870                | 45.64               | -28.36                  | 74                          | 41.03                   | 41.76                         | 19.82                   | 56.97                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10580                | 44.28               | -29.72                  | 74                          | 47.01                   | 39.08                         | 17.17                   | 58.98                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15870                | 46.47               | -27.53                  | 74                          | 41.86                   | 41.76                         | 19.82                   | 56.97                      | 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 VHT20 (Band Edge @ 3m)

| WIFI                                   | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|----------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                                   |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2                                    |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT20<br>CH 100<br>5500MHz |      | 5447.76   | 56.96      | -17.04 | 74         | 45.84    | 34.47    | 11.89  | 35.24  | 203    | 315     | P       | H       |
|                                        |      | 5469.36   | 61.06      | -7.14  | 68.2       | 49.9     | 34.51    | 11.89  | 35.24  | 203    | 315     | P       | H       |
|                                        |      | 5459.76   | 50.37      | -3.63  | 54         | 39.25    | 34.47    | 11.89  | 35.24  | 203    | 315     | A       | H       |
|                                        | *    | 5500      | 109.7      | -      | -          | 98.45    | 34.6     | 11.89  | 35.24  | 203    | 315     | P       | H       |
|                                        | *    | 5500      | 102.31     | -      | -          | 91.06    | 34.6     | 11.89  | 35.24  | 203    | 315     | A       | H       |
|                                        |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                        |      | 5452.56   | 57.73      | -16.27 | 74         | 46.61    | 34.47    | 11.89  | 35.24  | 100    | 338     | P       | V       |
|                                        |      | 5470      | 61.94      | -6.26  | 68.2       | 50.78    | 34.51    | 11.89  | 35.24  | 100    | 338     | P       | V       |
|                                        |      | 5459.92   | 50.89      | -3.11  | 54         | 39.77    | 34.47    | 11.89  | 35.24  | 100    | 338     | A       | V       |
|                                        | *    | 5500      | 112.04     | -      | -          | 100.79   | 34.6     | 11.89  | 35.24  | 100    | 338     | P       | V       |
|                                        | *    | 5500      | 104.62     | -      | -          | 93.37    | 34.6     | 11.89  | 35.24  | 100    | 338     | A       | V       |
|                                        |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11ac<br>VHT20<br>CH 116<br>5580MHz |      | 5440.48   | 48.63      | -25.37 | 74         | 37.55    | 34.43    | 11.89  | 35.24  | 200    | 316     | P       | H       |
|                                        |      | 5469.04   | 47.52      | -20.68 | 68.2       | 36.36    | 34.51    | 11.89  | 35.24  | 200    | 316     | P       | H       |
|                                        |      | 5457.52   | 40.57      | -13.43 | 54         | 29.45    | 34.47    | 11.89  | 35.24  | 200    | 316     | A       | H       |
|                                        | *    | 5580      | 110.48     | -      | -          | 99.25    | 34.6     | 11.89  | 35.26  | 200    | 316     | P       | H       |
|                                        | *    | 5580      | 102.7      | -      | -          | 91.47    | 34.6     | 11.89  | 35.26  | 200    | 316     | A       | H       |
|                                        |      | 5747.675  | 50.52      | -17.68 | 68.2       | 39.1     | 34.6     | 12.11  | 35.29  | 200    | 316     | P       | H       |
|                                        |      | 5455.12   | 49.34      | -24.66 | 74         | 38.22    | 34.47    | 11.89  | 35.24  | 110    | 337     | P       | V       |
|                                        |      | 5461.12   | 49.05      | -19.15 | 68.2       | 37.93    | 34.47    | 11.89  | 35.24  | 110    | 337     | P       | V       |
|                                        |      | 5459.44   | 41.27      | -12.73 | 54         | 30.15    | 34.47    | 11.89  | 35.24  | 110    | 337     | A       | V       |
|                                        | *    | 5580      | 113.13     | -      | -          | 101.9    | 34.6     | 11.89  | 35.26  | 110    | 337     | P       | V       |
|                                        | *    | 5580      | 105.24     | -      | -          | 94.01    | 34.6     | 11.89  | 35.26  | 110    | 337     | A       | V       |
|                                        |      | 5746.45   | 51.38      | -16.82 | 68.2       | 39.96    | 34.6     | 12.11  | 35.29  | 110    | 337     | P       | V       |



|                                                                    |                                                                                             |         |        |       |      |       |      |       |       |     |     |   |   |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|-------|------|-------|------|-------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 140</b><br><b>5700MHz</b> | *                                                                                           | 5700    | 108.28 | -     | -    | 96.96 | 34.6 | 12    | 35.28 | 172 | 315 | P | H |
|                                                                    | *                                                                                           | 5700    | 100.3  | -     | -    | 88.98 | 34.6 | 12    | 35.28 | 172 | 315 | A | H |
|                                                                    |                                                                                             | 5725.4  | 64.42  | -3.78 | 68.2 | 53.05 | 34.6 | 12.06 | 35.29 | 172 | 315 | P | H |
|                                                                    |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                                                    |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                                                    |                                                                                             |         |        |       |      |       |      |       |       |     |     |   | H |
|                                                                    | *                                                                                           | 5700    | 110.13 | -     | -    | 98.81 | 34.6 | 12    | 35.28 | 104 | 355 | P | V |
|                                                                    | *                                                                                           | 5700    | 101.92 | -     | -    | 90.6  | 34.6 | 12    | 35.28 | 104 | 355 | A | V |
|                                                                    |                                                                                             | 5725.16 | 67.76  | -1.04 | 68.2 | 55.79 | 34.6 | 12.06 | 35.29 | 104 | 355 | 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 802.11ac VHT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 100<br>5500MHz |                                                                                             | 11000                | 43.35               | -30.65                  | 74                          | 46.08                     | 38.5                          | 17.17                   | 58.4                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16500                | 48.56               | -25.44                  | 74                          | 41.43                     | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11000                | 42.85               | -31.15                  | 74                          | 45.58                     | 38.5                          | 17.17                   | 58.4                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16500                | 48.28               | -25.72                  | 74                          | 41.15                     | 43                            | 20.23                   | 56.1                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 116<br>5580MHz |                                                                                             | 11160                | 44.27               | -29.73                  | 74                          | 46.37                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16740                | 49.61               | -24.39                  | 74                          | 42.28                     | 42.9                          | 20.39                   | 55.96                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11160                | 43.25               | -30.75                  | 74                          | 45.35                     | 38.77                         | 17.16                   | 58.03                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16740                | 48.8                | -25.2                   | 74                          | 41.47                     | 42.9                          | 20.39                   | 55.96                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 140<br>5700MHz |                                                                                             | 11400                | 44.09               | -29.91                  | 74                          | 45.31                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 17100                | 50.73               | -23.27                  | 74                          | 43.28                     | 42.64                         | 20.65                   | 55.84                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11400                | 44.69               | -29.31                  | 74                          | 45.91                     | 39.14                         | 17.16                   | 57.52                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 17100                | 50.09               | -23.91                  | 74                          | 42.64                     | 42.64                         | 20.65                   | 55.84                      | 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 VHT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|----------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 102<br>5510MHz |      | 5449.36              | 54.49               | -19.51                  | 74                          | 43.37                     | 34.47                         | 11.89                   | 35.24                      | 191                  | 300                     | P                       | H               |
|                                        |      | 5468.8               | 61.03               | -7.17                   | 68.2                        | 49.87                     | 34.51                         | 11.89                   | 35.24                      | 191                  | 300                     | P                       | H               |
|                                        |      | 5459.44              | 49.41               | -4.59                   | 54                          | 38.29                     | 34.47                         | 11.89                   | 35.24                      | 191                  | 300                     | A                       | H               |
|                                        | *    | 5510                 | 104.88              | -                       | -                           | 93.63                     | 34.6                          | 11.89                   | 35.24                      | 191                  | 300                     | P                       | H               |
|                                        | *    | 5510                 | 97.94               | -                       | -                           | 86.69                     | 34.6                          | 11.89                   | 35.24                      | 191                  | 300                     | A                       | H               |
|                                        |      | 5738.225             | 48.82               | -19.38                  | 68.2                        | 37.45                     | 34.6                          | 12.06                   | 35.29                      | 191                  | 300                     | P                       | H               |
|                                        |      | 5458.96              | 59.45               | -14.55                  | 74                          | 48.33                     | 34.47                         | 11.89                   | 35.24                      | 100                  | 339                     | P                       | V               |
|                                        |      | 5468.32              | 64.64               | -3.56                   | 68.2                        | 53.48                     | 34.51                         | 11.89                   | 35.24                      | 100                  | 339                     | P                       | V               |
|                                        |      | 5459.68              | 52.05               | -1.95                   | 54                          | 40.93                     | 34.47                         | 11.89                   | 35.24                      | 100                  | 339                     | A                       | V               |
|                                        | *    | 5520                 | 105.79              | -                       | -                           | 94.54                     | 34.6                          | 11.89                   | 35.24                      | 100                  | 339                     | P                       | V               |
|                                        | *    | 5520                 | 98.59               | -                       | -                           | 87.34                     | 34.6                          | 11.89                   | 35.24                      | 100                  | 339                     | A                       | V               |
|                                        |      | 5735.95              | 49.73               | -18.47                  | 68.2                        | 38.36                     | 34.6                          | 12.06                   | 35.29                      | 100                  | 339                     | P                       | V               |
| 802.11ac<br>VHT40<br>CH 110<br>5550MHz |      | 5455.36              | 53.05               | -20.95                  | 74                          | 41.93                     | 34.47                         | 11.89                   | 35.24                      | 191                  | 300                     | P                       | H               |
|                                        |      | 5464.72              | 52.72               | -15.48                  | 68.2                        | 41.56                     | 34.51                         | 11.89                   | 35.24                      | 191                  | 300                     | P                       | H               |
|                                        |      | 5458                 | 46.48               | -7.52                   | 54                          | 35.36                     | 34.47                         | 11.89                   | 35.24                      | 191                  | 300                     | A                       | H               |
|                                        | *    | 5550                 | 106.16              | -                       | -                           | 94.92                     | 34.6                          | 11.89                   | 35.25                      | 191                  | 300                     | P                       | H               |
|                                        | *    | 5550                 | 99.25               | -                       | -                           | 88.01                     | 34.6                          | 11.89                   | 35.25                      | 191                  | 300                     | A                       | H               |
|                                        |      | 5736.3               | 50.96               | -17.24                  | 68.2                        | 39.59                     | 34.6                          | 12.06                   | 35.29                      | 191                  | 300                     | P                       | H               |
|                                        |      | 5457.28              | 51.49               | -22.51                  | 74                          | 40.37                     | 34.47                         | 11.89                   | 35.24                      | 121                  | 337                     | P                       | V               |
|                                        |      | 5468.32              | 56.18               | -12.02                  | 68.2                        | 45.02                     | 34.51                         | 11.89                   | 35.24                      | 121                  | 337                     | P                       | V               |
|                                        |      | 5459.92              | 46.81               | -7.19                   | 54                          | 35.69                     | 34.47                         | 11.89                   | 35.24                      | 121                  | 337                     | A                       | V               |
|                                        | *    | 5550                 | 109.21              | -                       | -                           | 97.97                     | 34.6                          | 11.89                   | 35.25                      | 121                  | 337                     | P                       | V               |
|                                        | *    | 5550                 | 102.14              | -                       | -                           | 90.9                      | 34.6                          | 11.89                   | 35.25                      | 121                  | 337                     | A                       | V               |
|                                        |      | 5726.5               | 49.93               | -18.27                  | 68.2                        | 38.56                     | 34.6                          | 12.06                   | 35.29                      | 121                  | 337                     | P                       | V               |



|                                                                    |                                                                                             |          |        |        |      |       |       |       |       |     |     |   |   |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|--------|--------|------|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11ac</b><br><b>VHT40</b><br><b>CH 134</b><br><b>5670MHz</b> |                                                                                             | 5425.84  | 48.86  | -25.14 | 74   | 37.83 | 34.38 | 11.89 | 35.24 | 200 | 300 | P | H |
|                                                                    |                                                                                             | 5462.08  | 47.11  | -21.09 | 68.2 | 35.99 | 34.47 | 11.89 | 35.24 | 200 | 300 | P | H |
|                                                                    |                                                                                             | 5458.48  | 40.23  | -13.77 | 54   | 29.11 | 34.47 | 11.89 | 35.24 | 200 | 300 | A | H |
|                                                                    | *                                                                                           | 5670     | 105.97 | -      | -    | 94.64 | 34.6  | 12    | 35.27 | 200 | 300 | P | H |
|                                                                    | *                                                                                           | 5670     | 100.15 | -      | -    | 88.82 | 34.6  | 12    | 35.27 | 200 | 300 | A | H |
|                                                                    |                                                                                             | 5730.525 | 54.44  | -13.76 | 68.2 | 43.07 | 34.6  | 12.06 | 35.29 | 200 | 300 | P | H |
|                                                                    |                                                                                             | 5456.32  | 48.61  | -25.39 | 74   | 37.49 | 34.47 | 11.89 | 35.24 | 105 | 337 | P | V |
|                                                                    |                                                                                             | 5469.04  | 47.83  | -20.37 | 68.2 | 36.67 | 34.51 | 11.89 | 35.24 | 105 | 337 | P | V |
|                                                                    |                                                                                             | 5458     | 40.33  | -13.67 | 54   | 29.21 | 34.47 | 11.89 | 35.24 | 105 | 337 | A | V |
|                                                                    | *                                                                                           | 5670     | 109.19 | -      | -    | 97.86 | 34.6  | 12    | 35.27 | 105 | 337 | P | V |
|                                                                    | *                                                                                           | 5670     | 101.41 | -      | -    | 90.08 | 34.6  | 12    | 35.27 | 105 | 337 | A | V |
|                                                                    |                                                                                             | 5736.475 | 55.56  | -12.64 | 68.2 | 44.19 | 34.6  | 12.06 | 35.29 | 105 | 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 - 5470~5725MHz

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

| WIFI<br>Ant.<br>1+2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 102<br>5510MHz |                                                                                             | 11020                | 43.46               | -30.54                  | 74                          | 46.12                     | 38.53                         | 17.17                   | 58.36                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16530                | 49.21               | -24.79                  | 74                          | 42.05                     | 42.99                         | 20.25                   | 56.08                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11020                | 44                  | -30                     | 74                          | 46.66                     | 38.53                         | 17.17                   | 58.36                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16530                | 48.35               | -25.65                  | 74                          | 41.19                     | 42.99                         | 20.25                   | 56.08                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 110<br>5550MHz |                                                                                             | 11100                | 42.95               | -31.05                  | 74                          | 45.31                     | 38.66                         | 17.16                   | 58.18                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16650                | 48.9                | -25.1                   | 74                          | 41.63                     | 42.94                         | 20.34                   | 56.01                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11100                | 44.22               | -29.78                  | 74                          | 46.58                     | 38.66                         | 17.16                   | 58.18                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16650                | 48.81               | -25.19                  | 74                          | 41.54                     | 42.94                         | 20.34                   | 56.01                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 134<br>5670MHz |                                                                                             | 11340                | 43.64               | -30.36                  | 74                          | 45.12                     | 39.03                         | 17.16                   | 57.67                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 17010                | 48.55               | -25.45                  | 74                          | 41                        | 42.77                         | 20.59                   | 55.81                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11340                | 43.92               | -30.08                  | 74                          | 45.4                      | 39.03                         | 17.16                   | 57.67                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 17010                | 48.28               | -25.72                  | 74                          | 40.73                     | 42.77                         | 20.59                   | 55.81                      | 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<br>Ant.<br>1+2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                                                             | 5450.08              | 65.78               | -8.22                   | 74                          | 54.66                     | 34.47                         | 11.89                   | 35.24                      | 200                  | 290                     | P                       | H               |
|                                        |                                                                                             | 5469.76              | 60.22               | -7.98                   | 68.2                        | 49.06                     | 34.51                         | 11.89                   | 35.24                      | 200                  | 290                     | P                       | H               |
|                                        |                                                                                             | 5459.92              | 51.67               | -2.33                   | 54                          | 40.55                     | 34.47                         | 11.89                   | 35.24                      | 200                  | 290                     | A                       | H               |
|                                        | *                                                                                           | 5530                 | 102.24              | -                       | -                           | 91                        | 34.6                          | 11.89                   | 35.25                      | 200                  | 290                     | P                       | H               |
|                                        | *                                                                                           | 5530                 | 95.57               | -                       | -                           | 84.33                     | 34.6                          | 11.89                   | 35.25                      | 200                  | 290                     | A                       | H               |
|                                        |                                                                                             | 5746.45              | 50.69               | -17.51                  | 68.2                        | 39.27                     | 34.6                          | 12.11                   | 35.29                      | 200                  | 290                     | P                       | H               |
|                                        |                                                                                             | 5457.76              | 59.63               | -14.37                  | 74                          | 48.51                     | 34.47                         | 11.89                   | 35.24                      | 119                  | 335                     | P                       | V               |
|                                        |                                                                                             | 5468.56              | 60.59               | -7.61                   | 68.2                        | 49.43                     | 34.51                         | 11.89                   | 35.24                      | 119                  | 335                     | P                       | V               |
|                                        |                                                                                             | 5459.92              | 53.51               | -1.49                   | 54                          | 41.39                     | 34.47                         | 11.89                   | 35.24                      | 119                  | 335                     | P                       | V               |
|                                        | *                                                                                           | 5530                 | 103.42              | -                       | -                           | 92.18                     | 34.6                          | 11.89                   | 35.25                      | 119                  | 335                     | P                       | V               |
|                                        | *                                                                                           | 5530                 | 96.08               | -                       | -                           | 84.84                     | 34.6                          | 11.89                   | 35.25                      | 119                  | 335                     | A                       | V               |
|                                        |                                                                                             | 5757.3               | 49.88               | -18.32                  | 68.2                        | 38.46                     | 34.6                          | 12.11                   | 35.29                      | 119                  | 335                     | P                       | V               |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 5446.24              | 53.33               | -20.67                  | 74                          | 42.21                     | 34.47                         | 11.89                   | 35.24                      | 200                  | 302                     | P                       | H               |
|                                        |                                                                                             | 5464.72              | 54.14               | -14.06                  | 68.2                        | 42.98                     | 34.51                         | 11.89                   | 35.24                      | 200                  | 302                     | P                       | H               |
|                                        |                                                                                             | 5459.92              | 45.02               | -8.98                   | 54                          | 33.9                      | 34.47                         | 11.89                   | 35.24                      | 200                  | 302                     | A                       | H               |
|                                        | *                                                                                           | 5620                 | 103.06              | -                       | -                           | 91.83                     | 34.6                          | 11.89                   | 35.26                      | 200                  | 302                     | P                       | H               |
|                                        | *                                                                                           | 5620                 | 95.73               | -                       | -                           | 84.5                      | 34.6                          | 11.89                   | 35.26                      | 200                  | 302                     | A                       | H               |
|                                        |                                                                                             | 5735.425             | 51.44               | -16.76                  | 68.2                        | 40.07                     | 34.6                          | 12.06                   | 35.29                      | 200                  | 302                     | P                       | H               |
|                                        |                                                                                             | 5449.36              | 57.71               | -16.29                  | 74                          | 46.59                     | 34.47                         | 11.89                   | 35.24                      | 117                  | 335                     | P                       | V               |
|                                        |                                                                                             | 5465.68              | 53.52               | -14.68                  | 68.2                        | 42.36                     | 34.51                         | 11.89                   | 35.24                      | 117                  | 335                     | P                       | V               |
|                                        |                                                                                             | 5458.96              | 46.35               | -7.65                   | 54                          | 35.23                     | 34.47                         | 11.89                   | 35.24                      | 117                  | 335                     | A                       | V               |
|                                        | *                                                                                           | 5610                 | 104.59              | -                       | -                           | 93.36                     | 34.6                          | 11.89                   | 35.26                      | 117                  | 335                     | P                       | V               |
|                                        | *                                                                                           | 5610                 | 97.3                | -                       | -                           | 86.07                     | 34.6                          | 11.89                   | 35.26                      | 117                  | 335                     | A                       | V               |
|                                        |                                                                                             | 5746.975             | 54.37               | -13.83                  | 68.2                        | 42.95                     | 34.6                          | 12.11                   | 35.29                      | 117                  | 335                     | 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<br>Ant.<br>1+2                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |                                                                                             | 11060                | 44.74               | -29.26                  | 74                          | 47.22                     | 38.61                         | 17.16                   | 58.25                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16590                | 49.12               | -24.88                  | 74                          | 41.89                     | 42.97                         | 20.31                   | 56.05                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11060                | 44.17               | -29.83                  | 74                          | 46.65                     | 38.61                         | 17.16                   | 58.25                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16590                | 48.23               | -25.77                  | 74                          | 41                        | 42.97                         | 20.31                   | 56.05                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 11220                | 45                  | -29                     | 74                          | 46.91                     | 38.85                         | 17.16                   | 57.92                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16830                | 49.91               | -24.09                  | 74                          | 42.46                     | 42.87                         | 20.48                   | 55.9                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11220                | 44.69               | -29.31                  | 74                          | 46.6                      | 38.85                         | 17.16                   | 57.92                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16830                | 49.51               | -24.49                  | 74                          | 42.06                     | 42.87                         | 20.48                   | 55.9                       | 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 - Straddle Channel****WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI                                   | Note                                                         | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|----------------------------------------|--------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                                   |                                                              |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1+2                                    |                                                              | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac<br>VHT20<br>CH 144<br>5720MHz | *                                                            | 5720      | 107.57     | -      | -          | 96.19  | 34.6     | 12.06  | 35.28  | 172    | 315     | P     | H     |
|                                        | *                                                            | 5720      | 99.9       | -      | -          | 88.52  | 34.6     | 12.06  | 35.28  | 172    | 315     | A     | H     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                        | *                                                            | 5720      | 110.96     | -      | -          | 99.58  | 34.6     | 12.06  | 35.28  | 102    | 337     | P     | V     |
|                                        | *                                                            | 5720      | 102.96     | -      | -          | 91.58  | 34.6     | 12.06  | 35.28  | 102    | 337     | A     | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
|                                        |                                                              |           |            |        |            |        |          |        |        |        |         |       | V     |
| Remark                                 | 1. No other spurious found.                                  |           |            |        |            |        |          |        |        |        |         |       |       |
|                                        | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |

**Band 3 - Straddle Channel****WIFI 802.11ac VHT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2                              | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11ac<br/>VHT20<br/>CH 144<br/>5720MHz</b> |                                                                                             | 11440                | 45.02               | -28.98                  | 74                          | 46.12                   | 39.19                         | 17.16                   | 57.45                      | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             | 17160                | 50.56               | -23.44                  | 74                          | 43.2                    | 42.53                         | 20.7                    | 55.87                      | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             | 11440                | 44.69               | -29.31                  | 74                          | 45.79                   | 39.19                         | 17.16                   | 57.45                      | 100                  | 0                       | P                     | V             |
|                                                  |                                                                                             | 17160                | 50.43               | -23.57                  | 74                          | 43.07                   | 42.53                         | 20.7                    | 55.87                      | 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 VHT40 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1+2                              | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11ac<br/>VHT40<br/>CH 142<br/>5710MHz</b> | *                                                                                           | 5710                 | 104.49              | -                       | -                           | 93.11                     | 34.6                          | 12.06                   | 35.28                      | 200                  | 300                     | P                       | H               |
|                                                  | *                                                                                           | 5710                 | 96.63               | -                       | -                           | 85.25                     | 34.6                          | 12.06                   | 35.28                      | 200                  | 300                     | A                       | H               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  | *                                                                                           | 5710                 | 106.34              | -                       | -                           | 94.96                     | 34.6                          | 12.06                   | 35.28                      | 100                  | 335                     | P                       | V               |
|                                                  | *                                                                                           | 5710                 | 98.58               | -                       | -                           | 87.2                      | 34.6                          | 12.06                   | 35.28                      | 100                  | 335                     | A                       | V               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |

**Band 3 - Straddle Channel****WIFI 802.11ac VHT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1+2                              | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11ac<br/>VHT40<br/>CH 142<br/>5710MHz</b> |                                                                                             | 11420                | 44.66               | -29.34                  | 74                          | 45.81                     | 39.17                         | 17.16                   | 57.48                      | 100                  | 0                       | P                       | H               |
|                                                  |                                                                                             | 17130                | 50.5                | -23.5                   | 74                          | 43.09                     | 42.59                         | 20.67                   | 55.85                      | 100                  | 0                       | P                       | H               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                  |                                                                                             | 11420                | 45.31               | -28.69                  | 74                          | 46.46                     | 39.17                         | 17.16                   | 57.48                      | 100                  | 0                       | P                       | V               |
|                                                  |                                                                                             | 17130                | 49.44               | -24.56                  | 74                          | 42.03                     | 42.59                         | 20.67                   | 55.85                      | 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<br>Ant.<br>1+2                              | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11ac<br/>VHT80<br/>CH 138<br/>5690MHz</b> | *                                                                                           | 5690                 | 104.81              | -                       | -                           | 93.49                   | 34.6                          | 12                      | 35.28                      | 187                  | 293                     | P                     | H             |
|                                                  | *                                                                                           | 5690                 | 95.23               | -                       | -                           | 83.91                   | 34.6                          | 12                      | 35.28                      | 187                  | 293                     | A                     | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  | *                                                                                           | 5690                 | 106.06              | -                       | -                           | 94.74                   | 34.6                          | 12                      | 35.28                      | 119                  | 318                     | P                     | V             |
|                                                  | *                                                                                           | 5690                 | 96.15               | -                       | -                           | 84.83                   | 34.6                          | 12                      | 35.28                      | 119                  | 318                     | A                     | V             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |

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

| WIFI<br>Ant.<br>1+2                              | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11ac<br/>VHT80<br/>CH 138<br/>5690MHz</b> |                                                                                             | 11380                | 44.35               | -29.65                  | 74                          | 45.64                   | 39.11                         | 17.16                   | 57.56                      | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             | 17070                | 49.77               | -24.23                  | 74                          | 42.26                   | 42.69                         | 20.65                   | 55.83                      | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             | 11380                | 43.79               | -30.21                  | 74                          | 45.08                   | 39.11                         | 17.16                   | 57.56                      | 100                  | 0                       | P                     | V             |
|                                                  |                                                                                             | 17070                | 49.76               | -24.24                  | 74                          | 42.25                   | 42.69                         | 20.65                   | 55.83                      | 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 below 1GHz

**WIFI 802.11n VHT20 (LF @ 3m)**

| WIFI                   | Note                                                                       | Frequency | Level      | Over   | Limit      | Read   | Antenna  | Cable  | Preamp | Ant    | Table   | Peak  | Pol.  |
|------------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant.                   |                                                                            |           |            | Limit  | Line       | Level  | Factor   | Loss   | Factor | Pos    | Pos     | Avg.  |       |
| 1+2                    |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>VHT20<br>LF |                                                                            | 149.34    | 39.01      | -4.49  | 43.5       | 50.6   | 17.73    | 1.78   | 31.1   | 100    | 340     | P     | H     |
|                        |                                                                            | 225.48    | 35.34      | -10.66 | 46         | 47.39  | 16.88    | 2.07   | 31     |        |         | P     | H     |
|                        |                                                                            | 297.84    | 34.34      | -11.66 | 46         | 43.26  | 19.78    | 2.32   | 31.02  |        |         | P     | H     |
|                        |                                                                            | 522.6     | 27.93      | -18.07 | 46         | 31.1   | 24.38    | 3.14   | 30.69  |        |         | P     | H     |
|                        |                                                                            | 723.5     | 31.27      | -14.73 | 46         | 31.15  | 26.78    | 3.74   | 30.4   |        |         | P     | H     |
|                        |                                                                            | 996.5     | 34.1       | -19.9  | 54         | 30.05  | 30.29    | 3.98   | 30.22  |        |         | P     | H     |
|                        |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                        |                                                                            | 76.44     | 33.74      | -6.26  | 40         | 50.2   | 13.46    | 1.28   | 31.2   | 100    | 81      | P     | V     |
|                        |                                                                            | 116.13    | 33.22      | -10.28 | 43.5       | 45.13  | 17.68    | 1.55   | 31.14  |        |         | P     | V     |
|                        |                                                                            | 222.24    | 30.56      | -15.44 | 46         | 42.93  | 16.56    | 2.07   | 31     |        |         | P     | V     |
|                        |                                                                            | 302.8     | 28.48      | -17.52 | 46         | 37.19  | 19.88    | 2.41   | 31     |        |         | P     | V     |
|                        |                                                                            | 656.3     | 29.66      | -16.34 | 46         | 30.61  | 25.97    | 3.57   | 30.49  |        |         | P     | V     |
|                        |                                                                            | 982.5     | 34.75      | -19.25 | 54         | 30.77  | 30.27    | 3.98   | 30.27  |        |         | 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    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2     |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Level(dBμV/m) =

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

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

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



## Appendix C. Radiated Spurious Emission

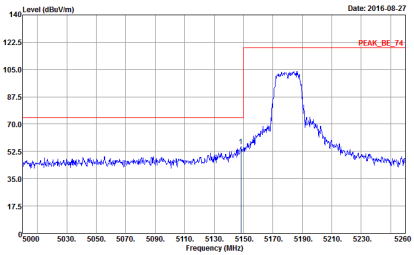
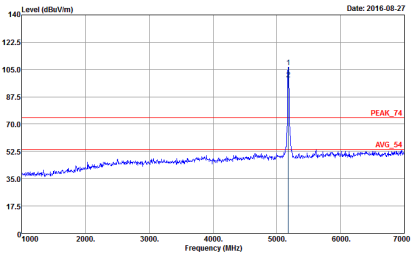
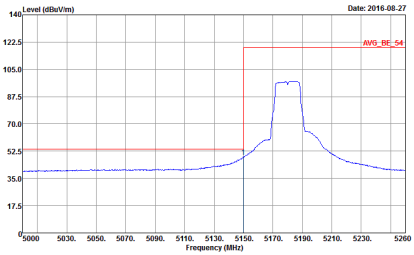
|                        |                                                              |                            |        |
|------------------------|--------------------------------------------------------------|----------------------------|--------|
| <b>Test Engineer :</b> | Luke Chang, Ken Wu, Derreck Chen, Jesse Wang, and James Chiu | <b>Temperature :</b>       | 21~24℃ |
|                        |                                                              | <b>Relative Humidity :</b> | 50~55% |

### Note symbol

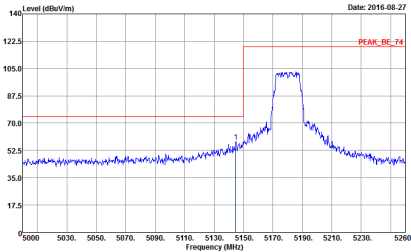
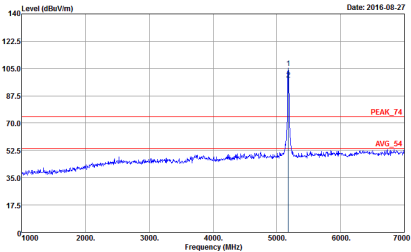
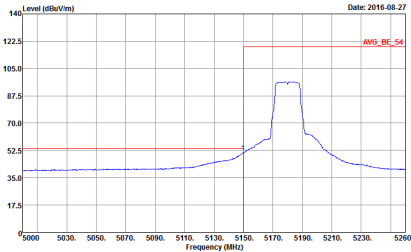
|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |



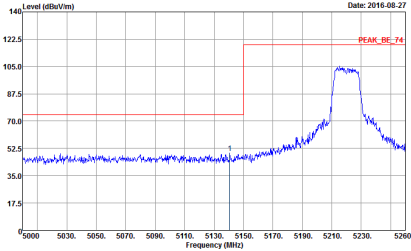
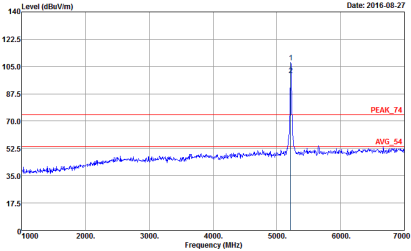
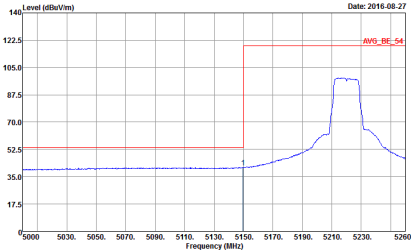
Band 1 - 5150~5250MHz  
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 1</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 1</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 1</p>   | Left blank                                                                                                                                                                                                                                                        |

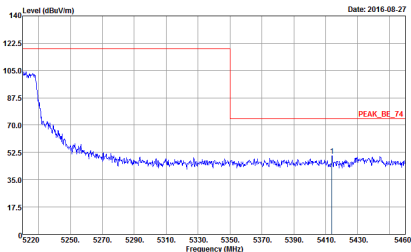
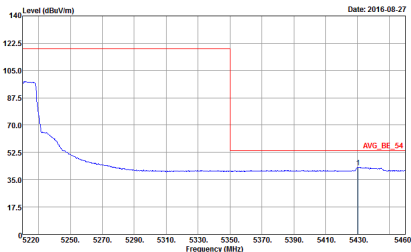


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                           |
| 1    | Vertical                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 1</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 1</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 1</p></div>   | Left blank                                                                                                                                                                                                                                                                |

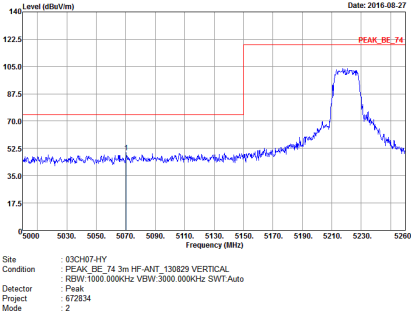
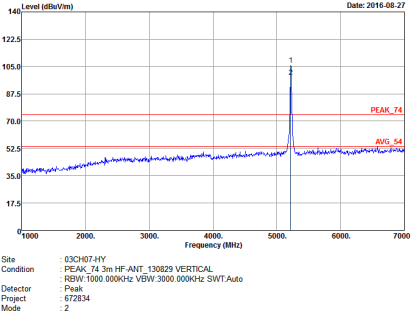
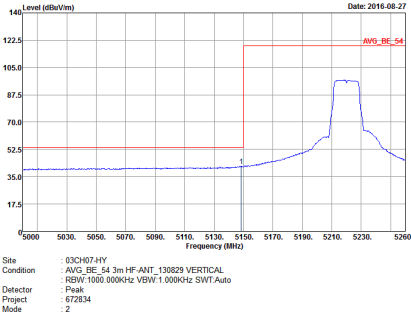


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                |                                                                                                                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                                                                                          |                                                                                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                                    |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_T4 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 2</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 2</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_S4 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 2</p></div> | Left blank                                                                                                                                                                                                                     |

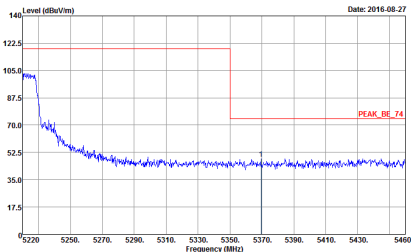
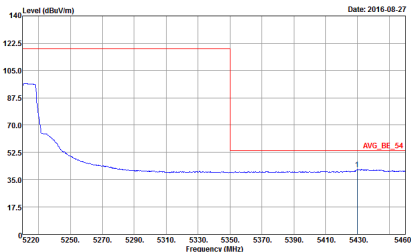


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                                                                                      |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 2</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 2</p></div>   | Left blank  |

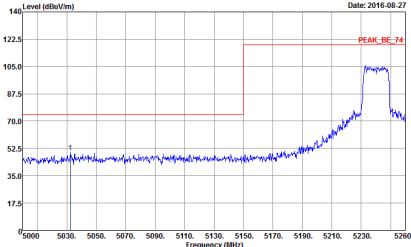
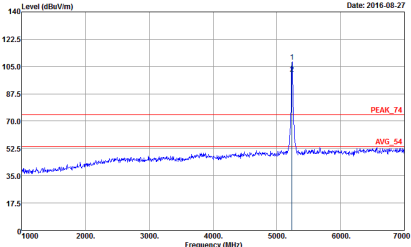
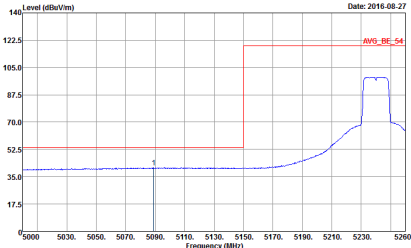


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                             |                                                                                               |
|------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                       |                                                                                               |
| 1    | Vertical                                                                                       | Fundamental                                                                                   |
| Peak | <div></div>   | <div></div> |
| Avg. | <div></div> | Left blank                                                                                    |

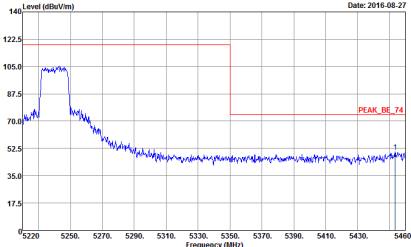
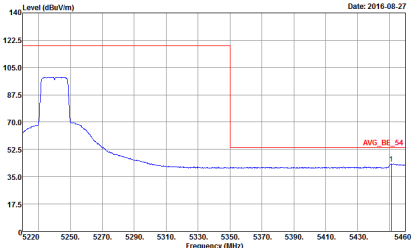


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                          |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                                                                                    |             |
| 1    | Vertical                                                                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 2</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 2</p></div>   | Left blank  |

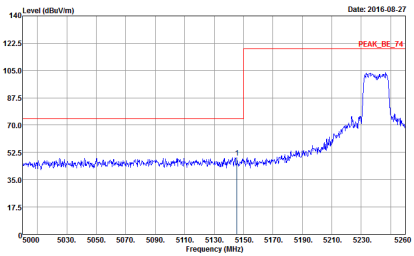
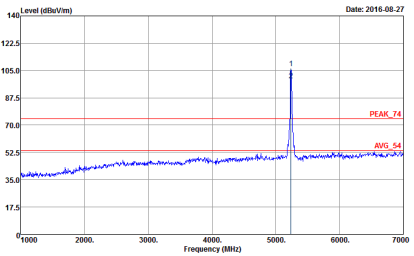
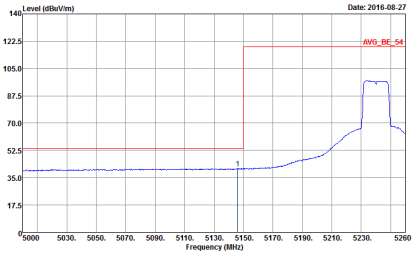


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                |                                                                                                                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                                                                          |                                                                                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                                    |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_T4 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 3</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 3</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_S4 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 3</p></div> | Left blank                                                                                                                                                                                                                     |

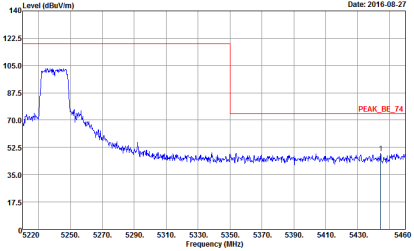
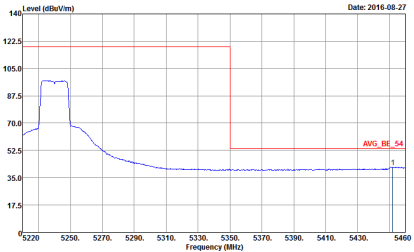


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                                          |             |
| 1    | Horizontal                                                                                                                                                                                                                        | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 3</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 3</p></div> | Left blank  |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                           |
| 1    | Vertical                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_T4 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 3</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 3</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_S4 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 3</p></div>   | Left blank                                                                                                                                                                                                                                                                |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                          |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                                                                                    |             |
| 1    | Vertical                                                                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 3</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 3</p></div>   | Left blank  |



## Band 1 - 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                  |                                                                                                                                  |
|--------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH36 5180MHz                                                                                                               |                                                                                                                                  |
| 1            | Horizontal                                                                                                                         | Vertical                                                                                                                         |
| Peak<br>Avg. | <p>Site : 03CH07.HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 1</p> | <p>Site : 03CH07.HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 1</p> |



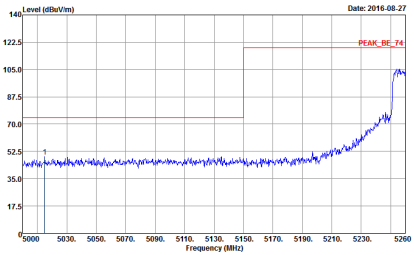
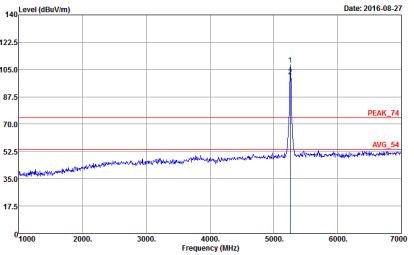
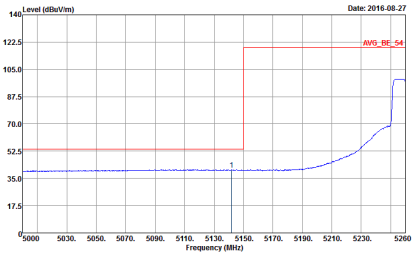
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                               |                                                                                                                                                                                                               |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH44 5220MHz                                                                                                                                                                                            |                                                                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                                                                      | Vertical                                                                                                                                                                                                      |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-28</p><p>Frequency (MHz)</p><p>Site : 03CH07.HY<br/>Condition : PEAK_T4 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 2</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-28</p><p>Frequency (MHz)</p><p>Site : 03CH07.HY<br/>Condition : PEAK_T4 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 2</p></div> |



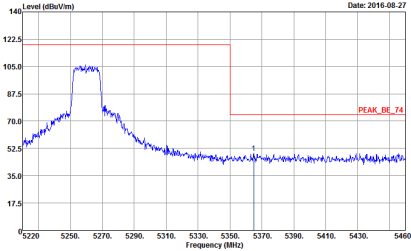
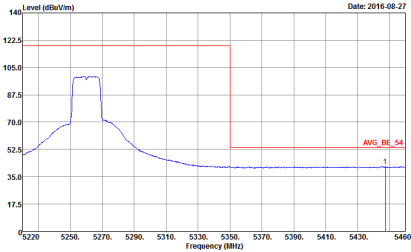
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                               |                                                                                                                                                                                                               |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH48 5240MHz                                                                                                                                                                                            |                                                                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                                                                      | Vertical                                                                                                                                                                                                      |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-28</p><p>Frequency (MHz)</p><p>Site : 03CH07.HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 3</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-28</p><p>Frequency (MHz)</p><p>Site : 03CH07.HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 3</p></div> |



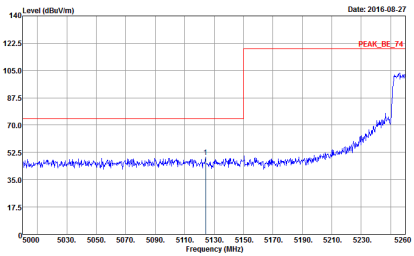
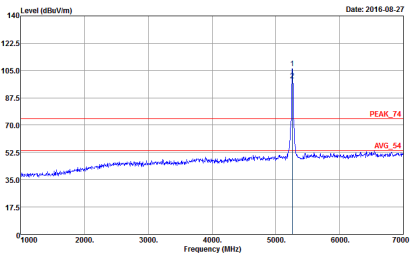
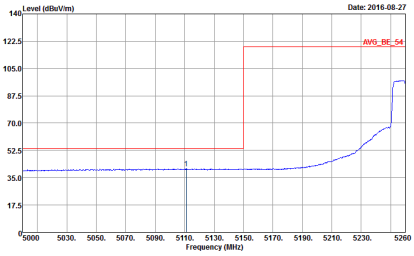
Band 2 - 5250~5350MHz  
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                       |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 4</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 4</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 4</p>   | Left blank                                                                                                                                                                                                                                                        |

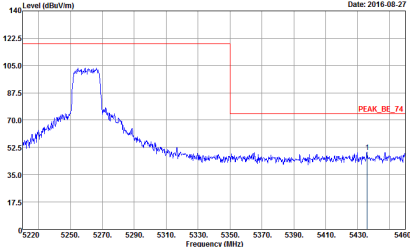
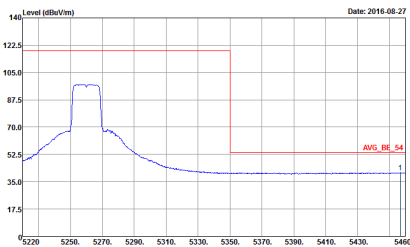


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                                                                                                      |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 4</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 4</p></div>   | Left blank  |

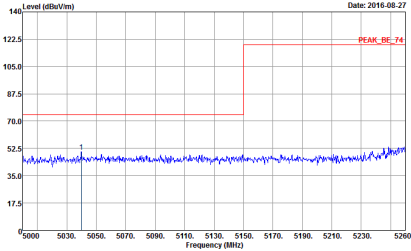
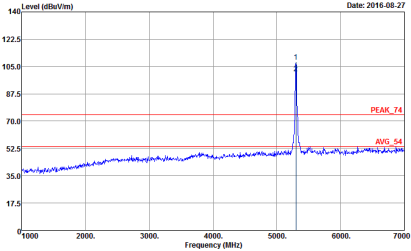
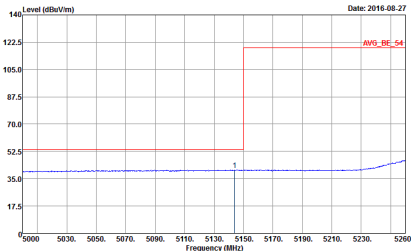


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                           |
| 1    | Vertical                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 4</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 4</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 4</p></div>   | Left blank                                                                                                                                                                                                                                                                |

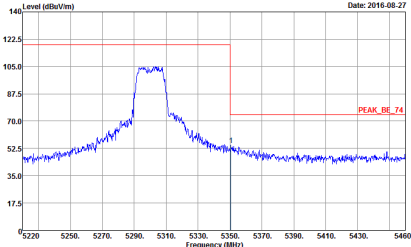
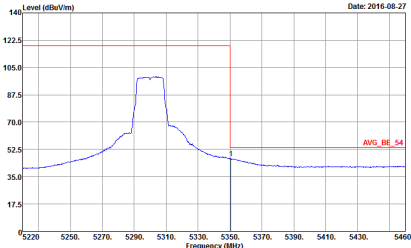


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                          |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                                                                                                    |             |
| 1    | Vertical                                                                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 4</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 4</p></div>   | Left blank  |

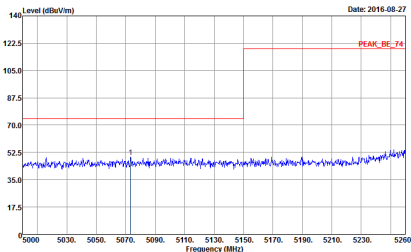
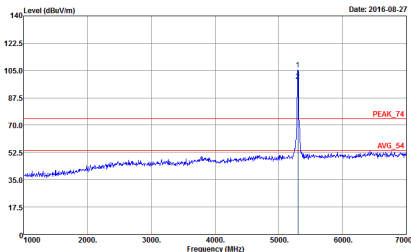
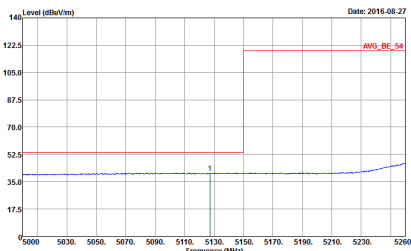


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                |                                                                                                                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                                                                                          |                                                                                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                                    |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 5</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 5</p></div> | Left blank                                                                                                                                                                                                                     |

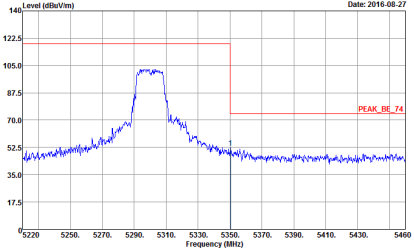
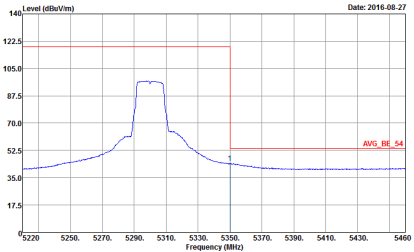


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                                                                                          |             |
| 1    | Horizontal                                                                                                                                                                                                                        | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 5</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 5</p></div> | Left blank  |

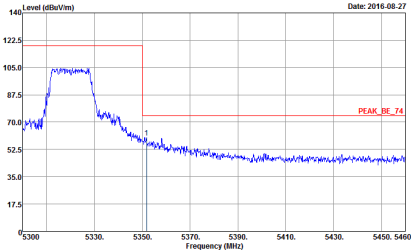
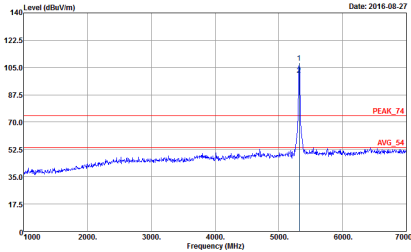
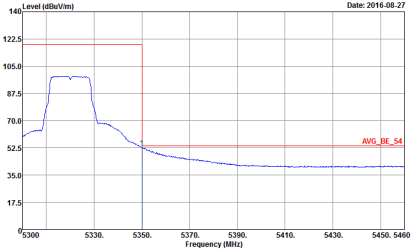


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                           |
| 1    | Vertical                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 5</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 5</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 5</p></div>   | Left blank                                                                                                                                                                                                                                                                |

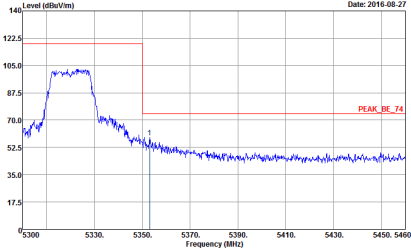
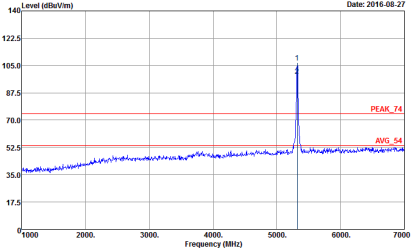
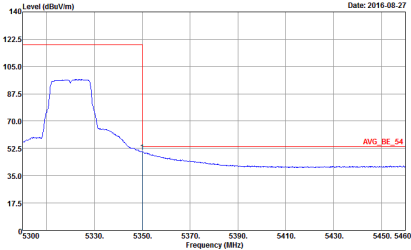


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                          |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                                                                                                                                    |             |
| 1    | Vertical                                                                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 5</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 5</p></div>   | Left blank  |



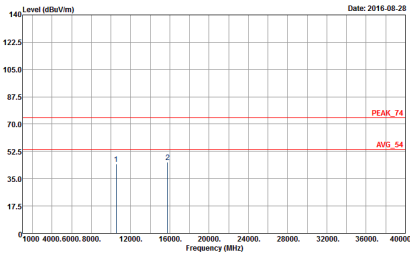
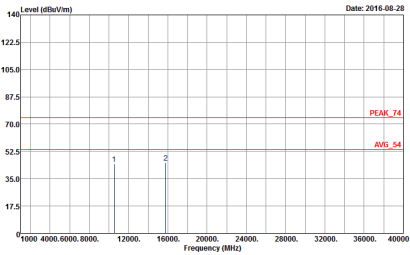
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                              |
| 1    | Horizontal                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                  |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 6</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 6</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>REBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 6</p></div>   | Left blank                                                                                                                                                                                                                                                                   |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                           |
| 1    | Vertical                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                               |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 6</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 6</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 6</p></div>   | Left blank                                                                                                                                                                                                                                                                |



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

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                    |                                                                                                                                                                                                                     |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH52 5260MHz                                                                                                                                                                                                 |                                                                                                                                                                                                                     |
| 1            | Horizontal                                                                                                                                                                                                           | Vertical                                                                                                                                                                                                            |
| Peak<br>Avg. |  <p>Site : 03CH07.HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 4</p> |  <p>Site : 03CH07.HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 4</p> |



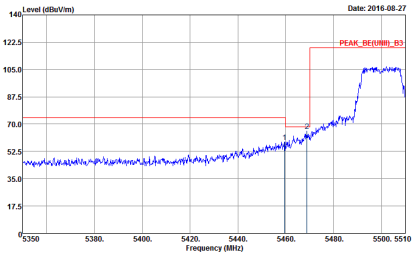
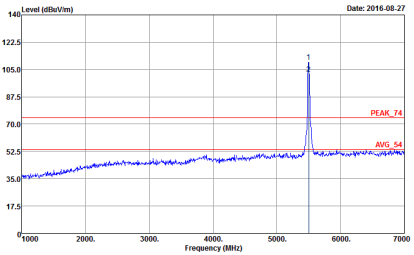
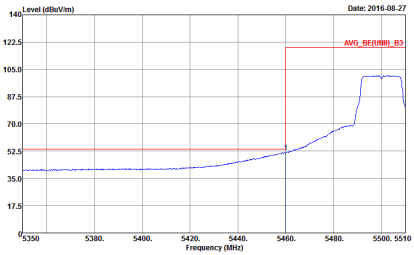
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH60 5300MHz                                                                                                                                                                                             |                                                                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                                                                       | Vertical                                                                                                                                                                                                       |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-28</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y<br/>Condition : PEAK_T4 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 5</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-28</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y<br/>Condition : PEAK_T4 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 5</p></div> |



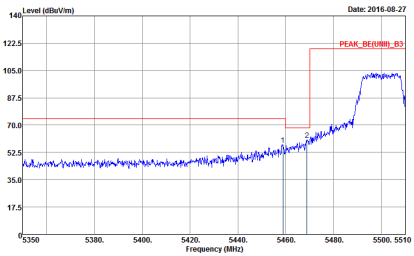
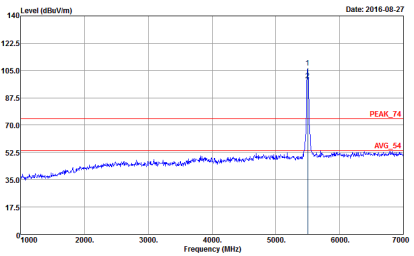
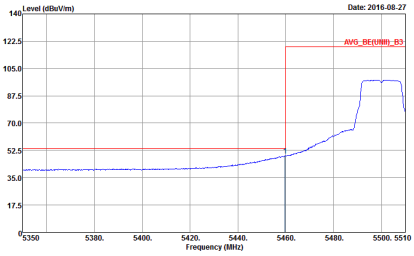
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH64 5320MHz                                                                                                                                                                                             |                                                                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                                                                       | Vertical                                                                                                                                                                                                       |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-28</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y<br/>Condition : PEAK_T4 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 6</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-28</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y<br/>Condition : PEAK_T4 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 6</p></div> |



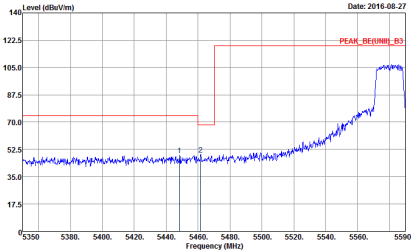
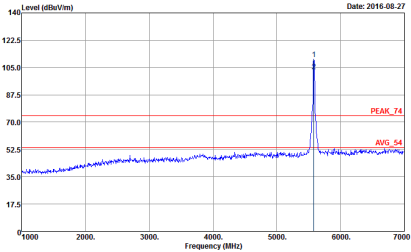
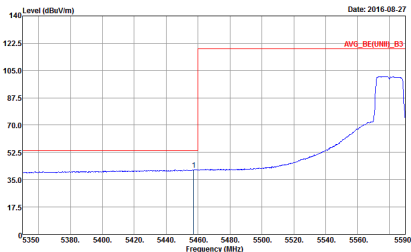
Band 3 - 5470~5725MHz  
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UMI)_B3 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 7<br/>68.3</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 7<br/>68.3</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE(UMI)_B3 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 7<br/>68.3</p>   | Left blank                                                                                                                                                                                                                                                                 |

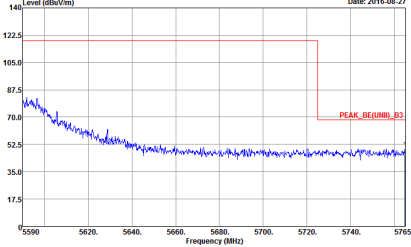


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                      |                                                                                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                                                                                                                                                   |                                                                                                                                                                                                                                 |
| 1    | Vertical                                                                                                                                                                                                                                | Fundamental                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UNI)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 68.3</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 68.3</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE(UNI)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 68.3</p></div> | Left blank                                                                                                                                                                                                                      |

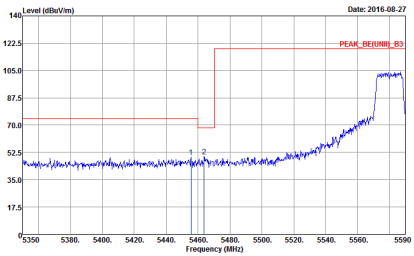
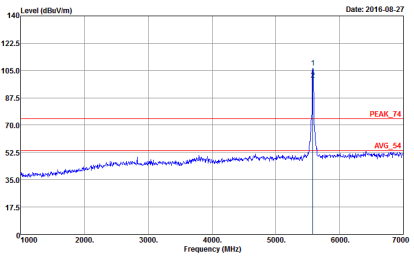
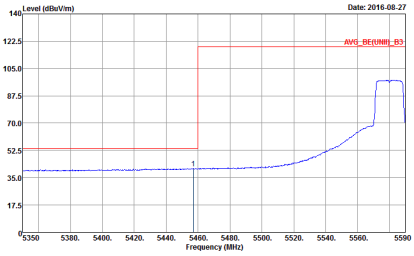


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                     |                                                                                                                                                                                                                                |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                                                                                              |                                                                                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                    |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UNI)_B3 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 8</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 8</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE(UNI)_B3 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 8</p></div> | Left blank                                                                                                                                                                                                                     |

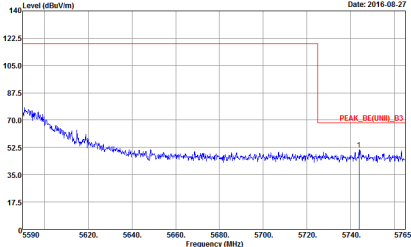


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                       |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                                                                                                                                                                                                                                                                                                |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                               | Fundamental |
| Peak | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-27</p><p>Frequency (MHz)</p><p>Site : 03CH07-MY<br/>Condition : PEAK_BE(UNIT)_B3 3m HF ANT_130829 HORIZONTAL<br/>RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 8</p></div> | Left blank  |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                      |
| 1    | Vertical                                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                                          |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE(UNM)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 8</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 8</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE(UNM)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : REW:1000.000kHz VSW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 8</p></div>   | Left blank                                                                                                                                                                                                                                                                           |

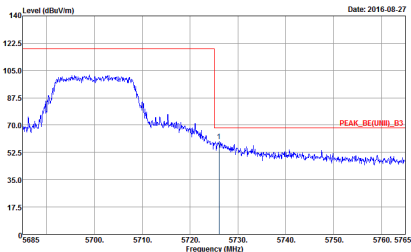
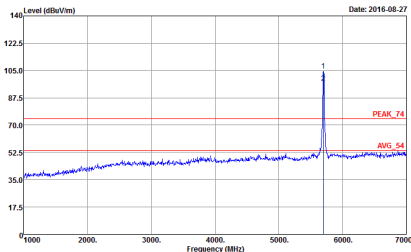


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                    |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                                                                                                                                                                             |             |
| 1    | Vertical                                                                                                                                                                                                                              | Fundamental |
| Peak | <div><p>Site : 03CH07-11Y<br/>Condition : PEAK_BE(UNIT)_B3 3m HF ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 8</p></div> | Left blank  |



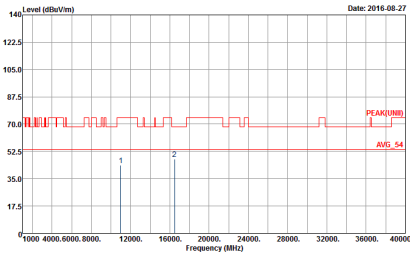
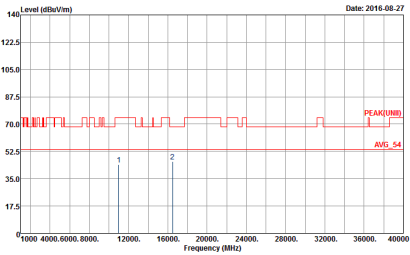
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                                                                                                                                                                                                 |
| Peak | <div><p>Level (dBuV/m)</p><p>140</p><p>122.5</p><p>105.0</p><p>87.5</p><p>70.0</p><p>52.5</p><p>35.0</p><p>17.5</p><p>0</p><p>5685 5700 5710 5720 5730 5740 5750 5760 5765</p><p>Frequency (MHz)</p><p>PEAK_BE(UMI)_B3</p><p>Date: 2016-08-27</p><p>Site : 03CH07.HY</p><p>Condition : PEAK_BE(UMI)_B3 3m HF-ANT_130829 HORIZONTAL</p><p>Detector : Peak</p><p>Project : 672834</p><p>Mode : 9</p></div> | <div><p>Level (dBuV/m)</p><p>140</p><p>122.5</p><p>105.0</p><p>87.5</p><p>70.0</p><p>52.5</p><p>35.0</p><p>17.5</p><p>0</p><p>1000 2000 3000 4000 5000 6000 7000</p><p>Frequency (MHz)</p><p>PEAK_T4</p><p>AVG_54</p><p>Date: 2016-08-27</p><p>Site : 03CH07.HY</p><p>Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL</p><p>Detector : Peak</p><p>Project : 672834</p><p>Mode : 9</p></div> |



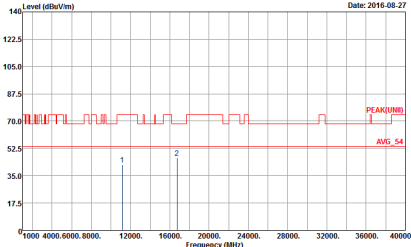
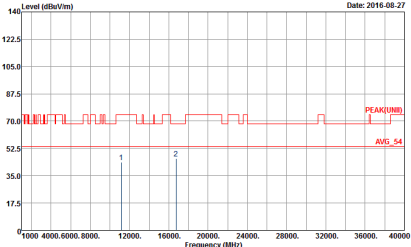
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                    |                                                                                                                                                                                                                               |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                                                                                 |                                                                                                                                                                                                                               |
| 1    | Vertical                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                   |
| Peak | <div><p>Site : 03CH07-11Y<br/>Condition : PEAK_BE(UNIT)_B3 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 9</p></div> | <div><p>Site : 03CH07-11Y<br/>Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 9</p></div> |



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

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                      |                                                                                                                                                                                                                       |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH100 5500MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH07.HY<br/>Condition : PEAK(LIM) 3m SHF.EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 7</p> |  <p>Site : 03CH07.HY<br/>Condition : PEAK(LIM) 3m SHF.EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 7</p> |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                                |                                                                                                                                                                                                                                 |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH116 5580MHz                                                                                                                                                                                                            |                                                                                                                                                                                                                                 |
| 1            | Horizontal                                                                                                                                                                                                                       | Vertical                                                                                                                                                                                                                        |
| Peak<br>Avg. | <div><p>Site : 03CH07.HY<br/>Condition : PEAK(UMI) 3m SHF.EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 8</p></div> | <div><p>Site : 03CH07.HY<br/>Condition : PEAK(UMI) 3m SHF.EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 8</p></div> |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                               |                                                                                                                                                                                                               |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH140 5700MHz                                                                                                                                                                                           |                                                                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                                                                      | Vertical                                                                                                                                                                                                      |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-27</p><p>Frequency (MHz)</p><p>Site : 03CH07.HY<br/>Condition : PEAK_T4 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 9</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-27</p><p>Frequency (MHz)</p><p>Site : 03CH07.HY<br/>Condition : PEAK_T4 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 9</p></div> |



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

| WIFI         | Band 3 Straddle Channel Fundamental @ 3m                                                                                                                                        |                                                                                                                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH144 5720MHz                                                                                                                                                           |                                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                                      | Vertical                                                                                                                                                                      |
| Peak<br>Avg. | <p>Site : 03CH07.HY<br/>Condition : PEAK_74 3m HF-ANT 130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 10</p> | <p>Site : 03CH07.HY<br/>Condition : PEAK_74 3m HF-ANT 130829 VERTICAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 10</p> |

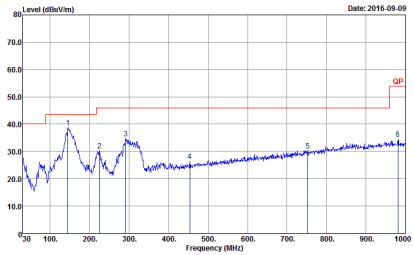
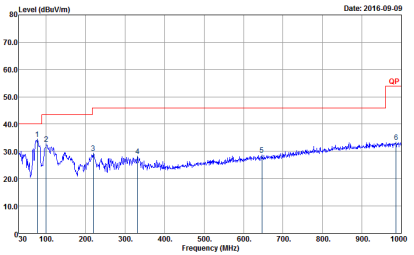


Band 3 - Straddle Channel  
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                                                                            |                                                                                                                                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH144 5720MHz                                                                                                                                                                                            |                                                                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                                                                       | Vertical                                                                                                                                                                                                       |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-27</p><p>Frequency (MHz)</p><p>Site : 03CH07.HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 10</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-27</p><p>Frequency (MHz)</p><p>Site : 03CH07.HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 10</p></div> |



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

| WIFI         | 5GHz WIFI                                                                                                                                                                                                          |                                                                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a LF                                                                                                                                                                                                         |                                                                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                                                                         | Vertical                                                                                                                                                                                                          |
| QP /<br>Peak |  <p>Site : 03CH071HY<br/>Condition : QP 3m LF-ANT:35419(E) HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 100</p> |  <p>Site : 03CH071HY<br/>Condition : QP 3m LF-ANT:35419(E) VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 100</p> |
|              |                                                                                                                                                                                                                    |                                                                                                                                                                                                                   |



## Appendix C. Radiated Spurious Emission

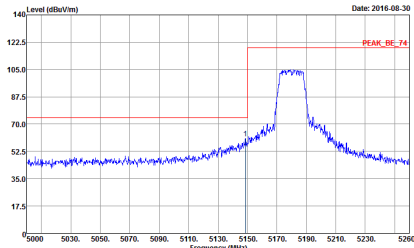
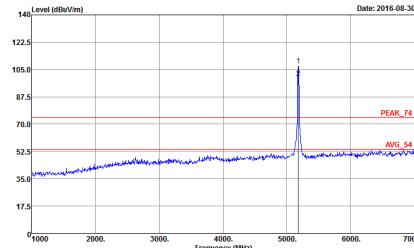
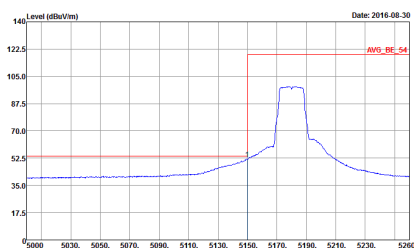
|                        |                                                              |                            |        |
|------------------------|--------------------------------------------------------------|----------------------------|--------|
| <b>Test Engineer :</b> | Luke Chang, Ken Wu, Derreck Chen, Jesse Wang, and James Chiu | <b>Temperature :</b>       | 21~24℃ |
|                        |                                                              | <b>Relative Humidity :</b> | 50~55% |

### Note symbol

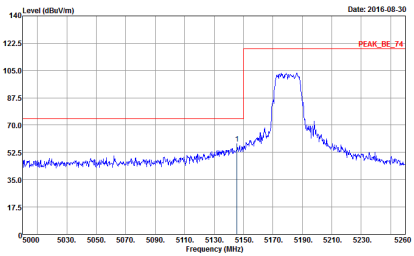
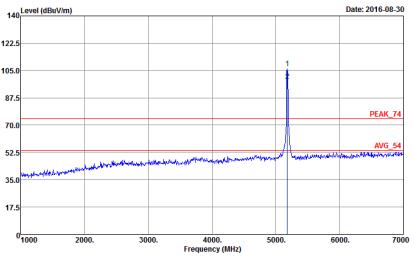
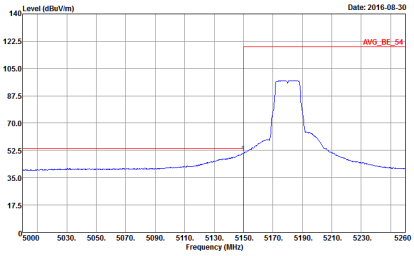
|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |



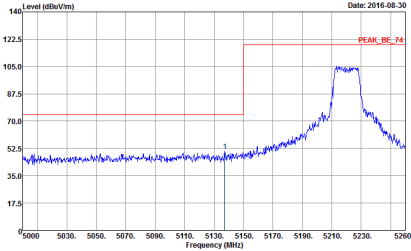
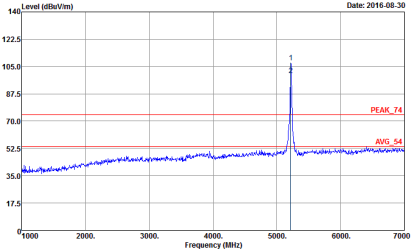
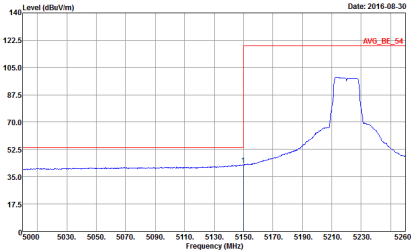
Band 1 - 5150~5250MHz  
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                     |
| 2    | Horizontal                                                                                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                                                                                         |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 14<br/>Setting : 66</p> |  <p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 14<br/>Setting : 66</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VSW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 14<br/>Setting : 66</p>   | Left blank                                                                                                                                                                                                                                                                          |

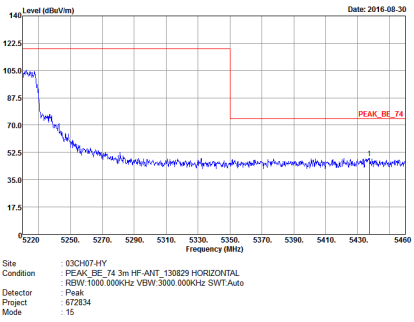
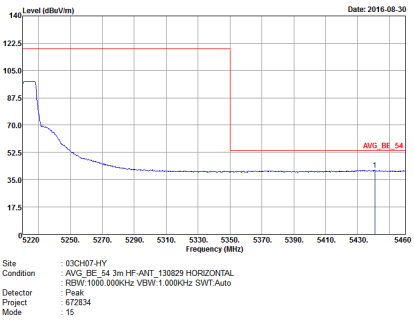


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                |                                                                                                                                                                                                                                                |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                |
| 2    | Vertical                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                    |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 14<br/>Setting : 66</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 14<br/>Setting : 66</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 14<br/>Setting : 66</p></div> | Left blank                                                                                                                                                                                                                                     |

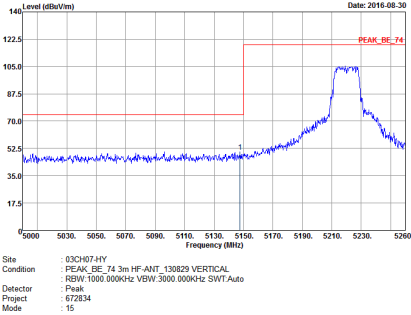
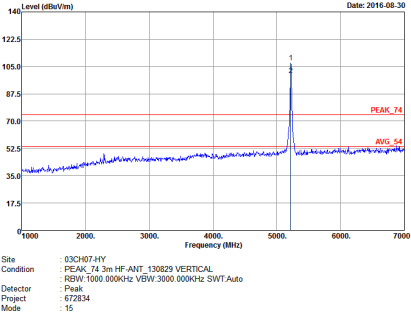
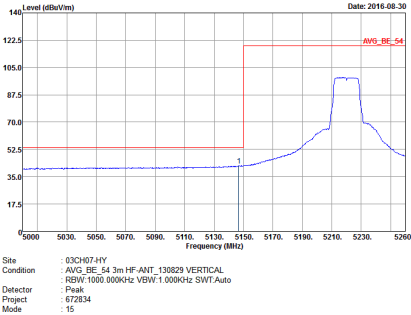


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                 |                                                                                                                                                                                                                                 |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                                                                                           |                                                                                                                                                                                                                                 |
| 2    | Horizontal                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_T4 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 15</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 15</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_S4 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 15</p></div> | Left blank                                                                                                                                                                                                                      |

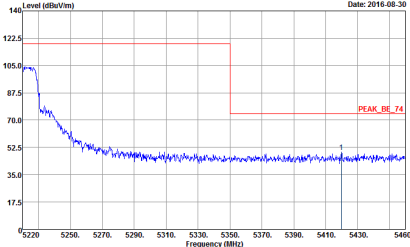
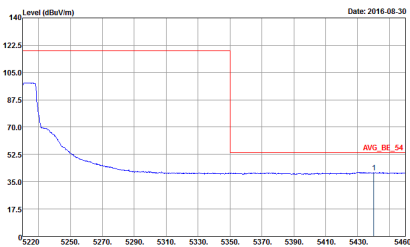


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                             |             |
|------|------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                       |             |
| 2    | Horizontal                                                                                     | Fundamental |
| Peak | <div></div>   | Left blank  |
| Avg. | <div></div> | Left blank  |

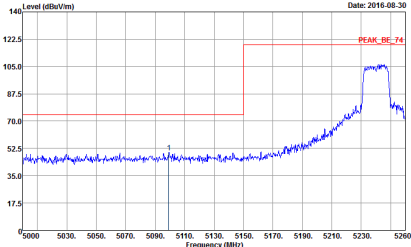
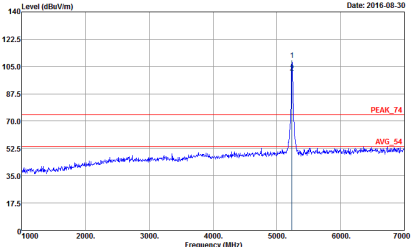
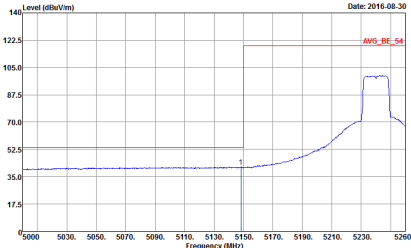


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                             |                                                                                               |
|------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                       |                                                                                               |
| 2    | Vertical                                                                                       | Fundamental                                                                                   |
| Peak | <div></div>   | <div></div> |
| Avg. | <div></div> | Left blank                                                                                    |

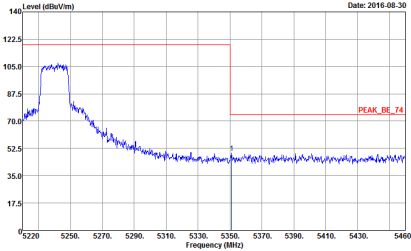
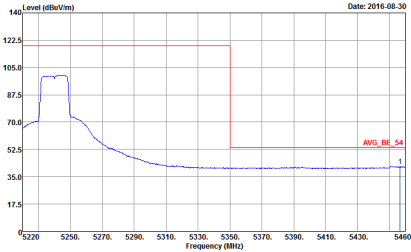


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                           |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                                                                                     |             |
| 2    | Vertical                                                                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 15</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 15</p></div>   | Left blank  |

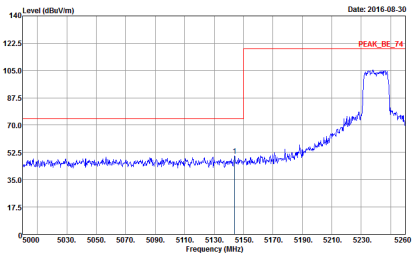
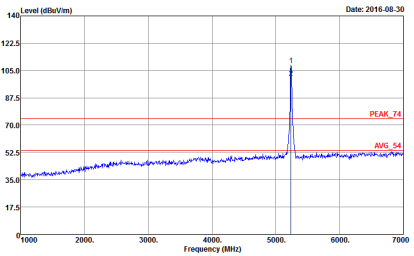
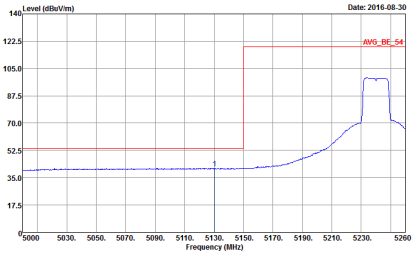


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                 |                                                                                                                                                                                                                                 |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                                                                           |                                                                                                                                                                                                                                 |
| 2    | Horizontal                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 16</p></div>  | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 16</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 16</p></div> | Left blank                                                                                                                                                                                                                      |

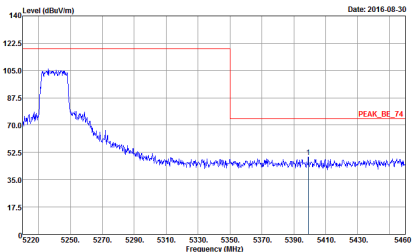
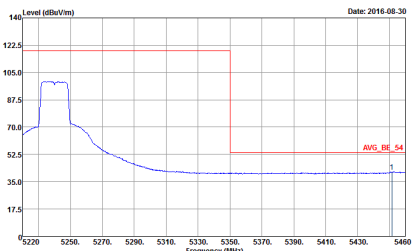


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                 |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                                           |             |
| 2    | Horizontal                                                                                                                                                                                                                         | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 16</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 16</p></div> | Left blank  |



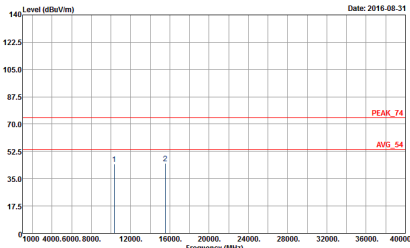
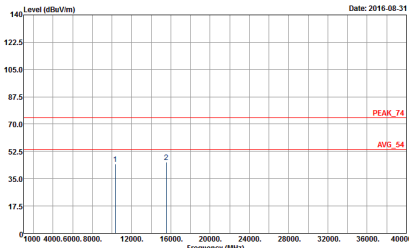
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                        |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                        |
| 2    | Vertical                                                                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                                                                            |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>Detector : REBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 16</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>Detector : REBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 16</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>Detector : REBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 16</p></div>   | Left blank                                                                                                                                                                                                                                                                             |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                 |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                                                                           |             |
| 2    | Vertical                                                                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 16</p> | Left blank  |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 16</p>   | Left blank  |



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

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                                                |                                                                                                                                                                                                                                                 |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH36 5180MHz                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                 |
| 2            | Horizontal                                                                                                                                                                                                                                       | Vertical                                                                                                                                                                                                                                        |
| Peak<br>Avg. | <div><p>Site : 03CH07.HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 14<br/>Setting : 66</p></div> | <div><p>Site : 03CH07.HY<br/>Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 14<br/>Setting : 66</p></div> |



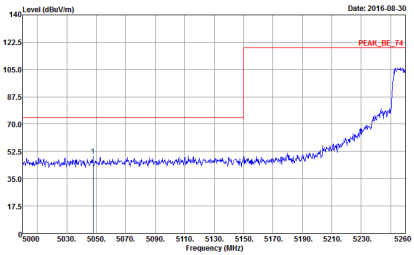
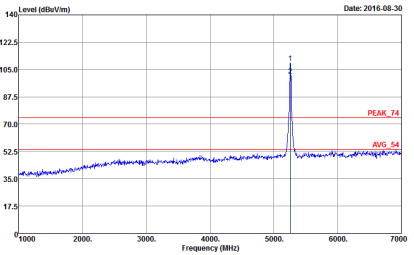
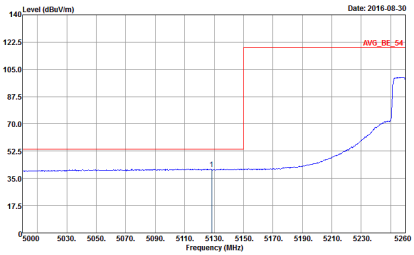
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                 |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH44 5220MHz                                                                                                                                                                                              |                                                                                                                                                                                                                 |
| 2            | Horizontal                                                                                                                                                                                                        | Vertical                                                                                                                                                                                                        |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-31</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y<br/>Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 15</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-31</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y<br/>Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 15</p></div> |



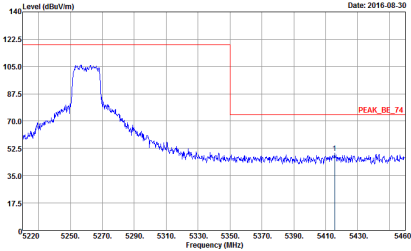
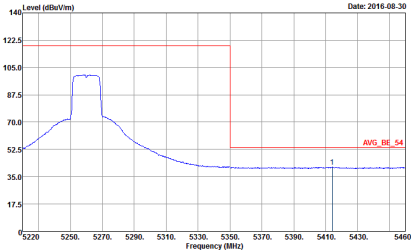
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                                 |                                                                                                                                                                                                                 |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH48 5240MHz                                                                                                                                                                                              |                                                                                                                                                                                                                 |
| 2            | Horizontal                                                                                                                                                                                                        | Vertical                                                                                                                                                                                                        |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-31</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y<br/>Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 16</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-08-31</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y<br/>Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 16</p></div> |



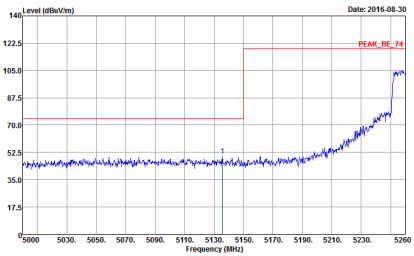
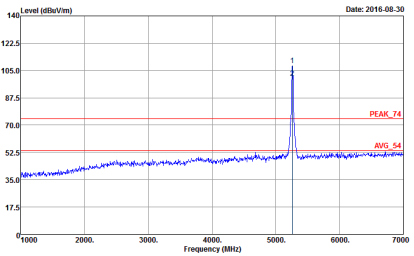
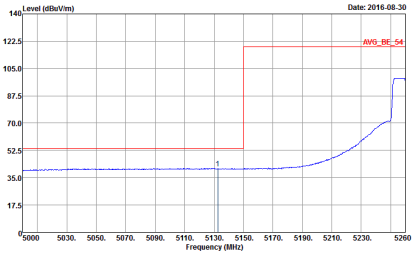
Band 2 - 5250~5350MHz  
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                       |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                                                                                 |                                                                                                                                                                                                                       |
| 2    | Horizontal                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                           |
| Peak |  <p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 17</p>  |  <p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 17</p> |
| Avg. |  <p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 17</p> | Left blank                                                                                                                                                                                                            |

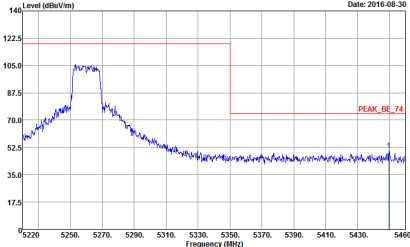
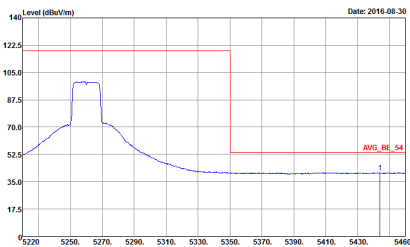


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                             |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                                                                                                       |             |
| 2    | Horizontal                                                                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 17</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 17</p></div>   | Left blank  |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                            |
| 2    | Vertical                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 17</p></div> | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 17</p></div> |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 17</p></div>   | Left blank                                                                                                                                                                                                                                                                 |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                           |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                                                                                                     |             |
| 2    | Vertical                                                                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH07-HY<br/>Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 17</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH07-HY<br/>Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL<br/>RBW:1000.000kHz VBW:1.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 672834<br/>Mode : 17</p></div>   | Left blank  |